Los Alamos
NATIONAL LABORATORY
EST. 1943
Environmental Programs
P.O. Box 1663, MS M991
Los Alamos, New Mexico 87545
(505) 606-2337/FAX (505) 665-1812

ENTERI
National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: OCT 15 2010
Refer To: EP2010-0441

James Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Submittal of Historical Rio Grande above the City of Santa Fe's Buckman Direct Diversion and Rio Grande at Otowi Bridge Bimonthly Reports

Dear Mr. Bearzi:

In its August 6, 2010, response to the review of the periodic monitoring report for White Rock watershed, September 22–October 1, 2009, Los Alamos National Laboratory (the Laboratory) indicated it will provide the New Mexico Environment Department–Hazardous Waste Bureau (NMED-HWB) with reports submitted previously to the City of Santa Fe on surface monitoring results for the Rio Grande above the City of Santa Fe's Buckman Direct Diversion and Rio Grande at Otowi Bridge. In addition, the NMED-HWB will be copied on future reports.

Enclosed please find a compact disc with electronic files of the bimonthly reports previously submitted to the City of Santa Fe.

If you have any questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hshen@doeal.gov).

Sincerely,

Daniel R Cox for MJG

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

George J. Rael, Manager
Environmental Projects Office
Los Alamos Site Office

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National Nuclear Security Administration of the U.S. Department of Ene

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MG/GR/DM/SP:sm

Enclosures: CD with electronic files – Submittal of Previous Rio Grande above the City of Santa Fe's Buckman Direct Diversion and Rio Grande at Otowi Bridge Bimonthly Reports

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo
Hai Shen, DOE-LASO, MS A316
Steve Paris, EP-CAP, MS M992
RPF, MS M707 (w/ two CDs)
Public Reading Room, MS M992

Cy: (Letter and CD and/or DVD only)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Kristine Smeltz, EP-BPS, MS M992

Cy: (w/o enc.)
Tom Skibitski, NMED-OB, Santa Fe, NM
Annette Russell, DOE-LASO (date-stamped letter emailed)
Dave McInroy, EP-CAP, MS M992
Michael J. Graham, ADEP, MS M991

August 20, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 08-1597; CAWR-08 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 08-1597; CAWR-08 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, each received in two water filled 1-galon jugs, were air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager

Enclosure

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1] (θ, ρ_d, ϕ)	Saturated Hydraulic Conductivity[2]		Moisture Characteristics[3]					Unsaturated Hydraulic Conductivity	Particle Size[4]			Effective Porosity	Particle Density	Air Permeability	1/3, 15 Bar Points and Water Holding Capacity	Atterberg Limits	Proctor Compaction
		CH	FH	HC	PP	TH	WP	RH		DS	WS	H						
CAWR-08-12212											X							
CAWR-08 12214											X							
CAWR-08 12216											X							

[1] θ = Initial moisture content, ρ_d = Dry bulk density, ϕ = Calculated porosity
[2] CH = Constant head, FH = falling head
[3] HC = Hanging column, PP = Pressure plate, TH = Thermocouple psychrometer, WP = Water activity meter, RH = Relative humidity box
[4] DS = Dry sieve, WS = Wet sieve, H = Hydrometer

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08-12212	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12214	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12216	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Particle Size Analysis

— RIO GRANDE @ BUCKMAN —

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12216
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.46
Weight Passing #10 (g): 2.46
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.46
Calculated Weight of Sieve Sample (g): 2.46

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.46	100.00
	2"	50	0.00	0.00	2.46	100.00
	1.5"	38.1	0.00	0.00	2.46	100.00
	1"	25	0.00	0.00	2.46	100.00
	3/4"	19.0	0.00	0.00	2.46	100.00
	3/8"	9.5	0.00	0.00	2.46	100.00
	4	4.75	0.00	0.00	2.46	100.00
	10	2.00	0.00	0.00	2.46	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.46	100.00
	40	0.425	0.01	0.01	2.45	99.59
	60	0.250	0.00	0.01	2.45	99.59
	140	0.106	0.11	0.12	2.34	95.12
	200	0.075	0.21	0.33	2.13	86.59
	dry pan		0.05	0.38	2.08	
	wet pan			2.08	0.00	

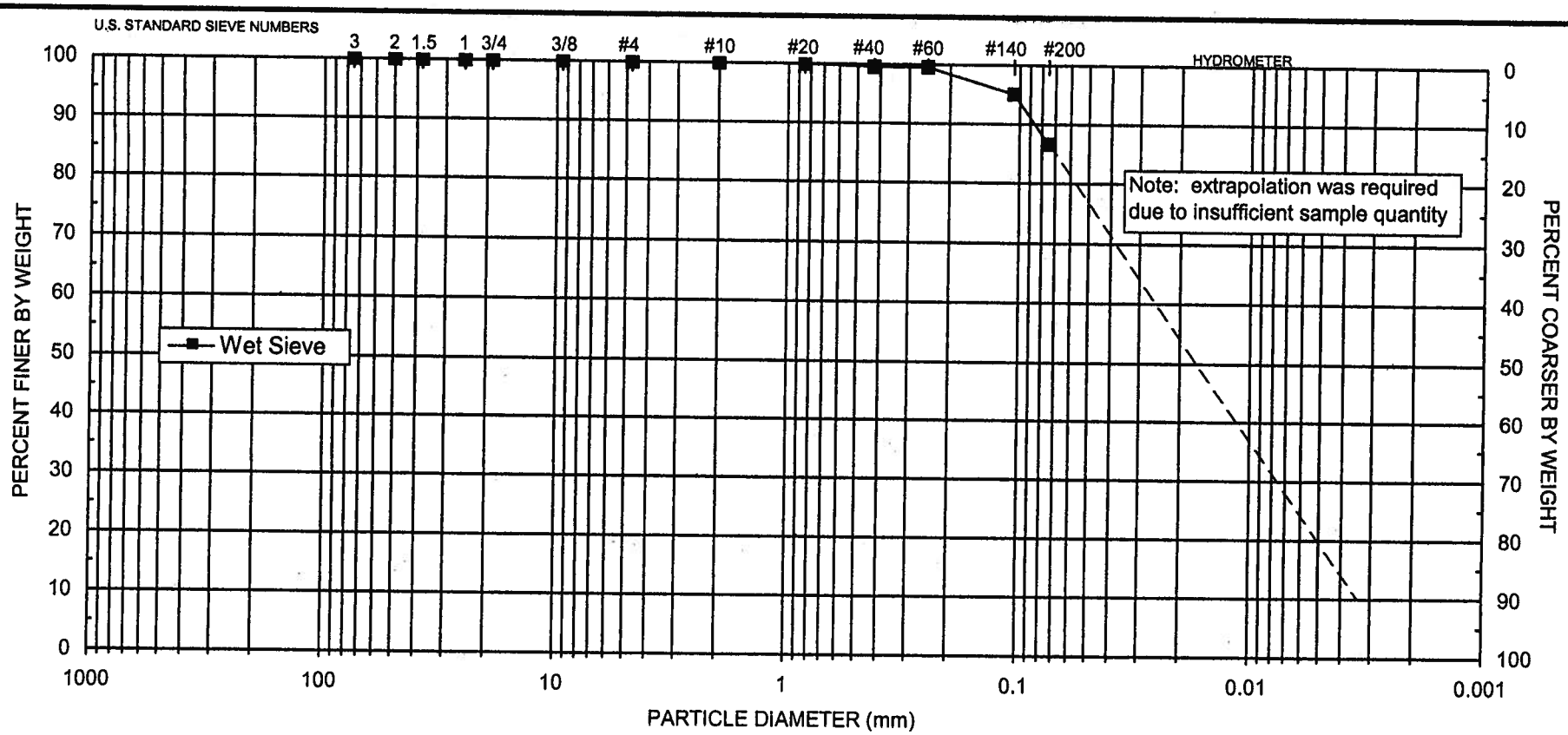
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12216	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

—RIO GRANDE @ BUCKMAN—
—FIELD DUPLICATE—

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12214
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.45
Weight Passing #10 (g): 2.45
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.45
Calculated Weight of Sieve Sample (g): 2.45

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.45	100.00
	2"	50	0.00	0.00	2.45	100.00
	1.5"	38.1	0.00	0.00	2.45	100.00
	1"	25	0.00	0.00	2.45	100.00
	3/4"	19.0	0.00	0.00	2.45	100.00
	3/8"	9.5	0.00	0.00	2.45	100.00
	4	4.75	0.00	0.00	2.45	100.00
	10	2.00	0.00	0.00	2.45	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.45	100.00
	40	0.425	0.01	0.01	2.44	99.59
	60	0.250	0.00	0.01	2.44	99.59
	140	0.106	0.17	0.18	2.27	92.65
	200	0.075	0.25	0.43	2.02	82.45
	dry pan		0.04	0.47	1.98	
	wet pan			1.98	0.00	

d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

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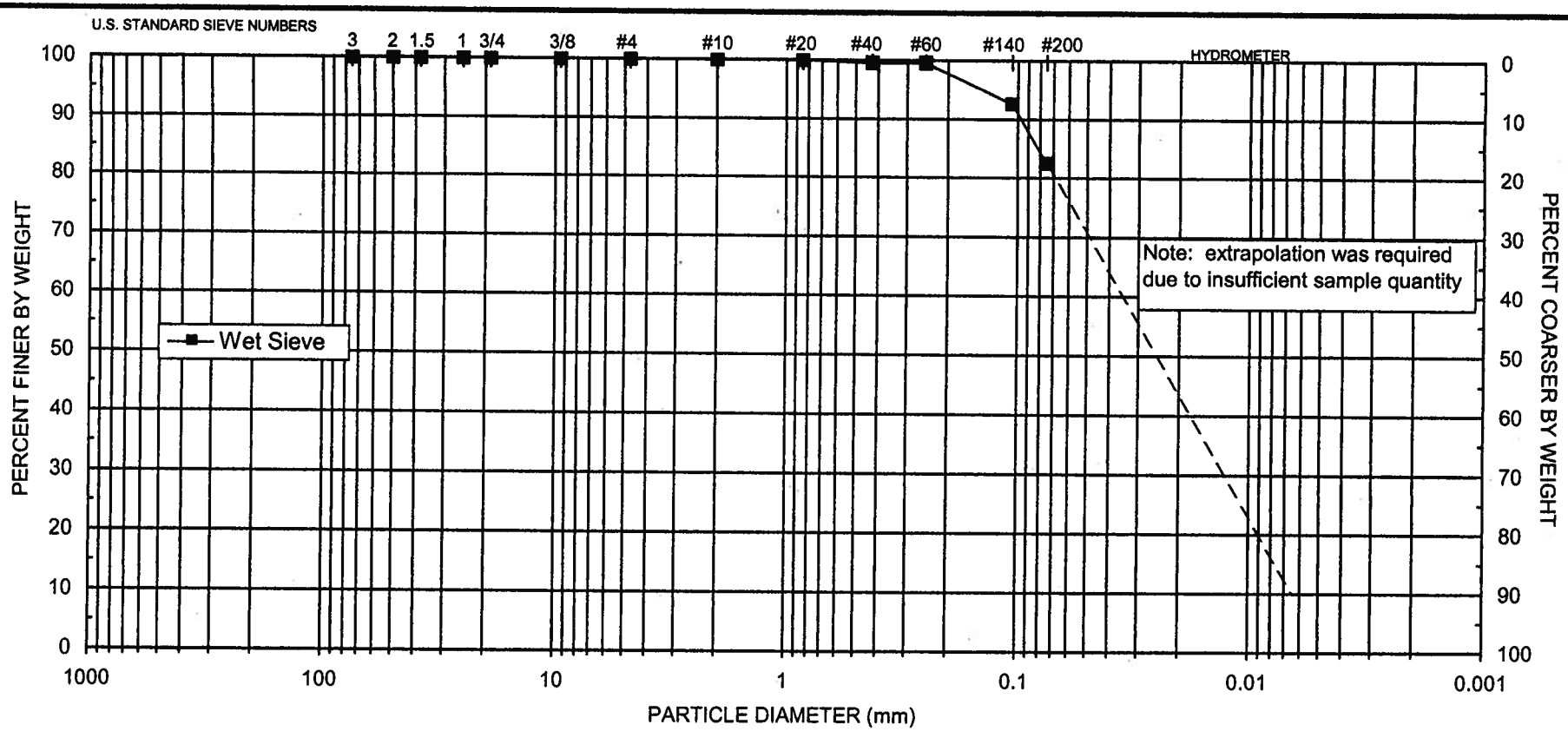
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY	
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12214	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

August 20, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 08-1597; CAWR-08 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 08-1597; CAWR-08 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

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The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager

Enclosure

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1] (θ, ρ_d, ϕ)	Saturated Hydraulic Conductivity[2]		Moisture Characteristics[3]					Unsaturated Hydraulic Conductivity	Particle Size[4]			Effective Porosity	Particle Density	Air Permeability	1/3, 15 Bar Points and Water Holding Capacity	Atterberg Limits	Proctor Compaction
		CH	FH	HC	PP	TH	WP	RH		DS	WS	H						
CAWR-08-12212											X							
CAWR-08 12214											X							
CAWR-08 12216											X							

[1] θ = Initial moisture content, ρ_d = Dry bulk density, ϕ = Calculated porosity
[2] CH = Constant head, FH = falling head
[3] HC = Hanging column, PP = Pressure plate, TH = Thermocouple psychrometer, WP = Water activity meter, RH = Relative humidity box
[4] DS = Dry sieve, WS = Wet sieve, H = Hydrometer

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08-12212	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12214	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12216	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Particle Size Analysis

— RIO GRANDE @ BUCKMAN —

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12216
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.46
Weight Passing #10 (g): 2.46
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.46
Calculated Weight of Sieve Sample (g): 2.46

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.46	100.00
	2"	50	0.00	0.00	2.46	100.00
	1.5"	38.1	0.00	0.00	2.46	100.00
	1"	25	0.00	0.00	2.46	100.00
	3/4"	19.0	0.00	0.00	2.46	100.00
	3/8"	9.5	0.00	0.00	2.46	100.00
	4	4.75	0.00	0.00	2.46	100.00
	10	2.00	0.00	0.00	2.46	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.46	100.00
	40	0.425	0.01	0.01	2.45	99.59
	60	0.250	0.00	0.01	2.45	99.59
	140	0.106	0.11	0.12	2.34	95.12
	200	0.075	0.21	0.33	2.13	86.59
	dry pan		0.05	0.38	2.08	
	wet pan			2.08	0.00	

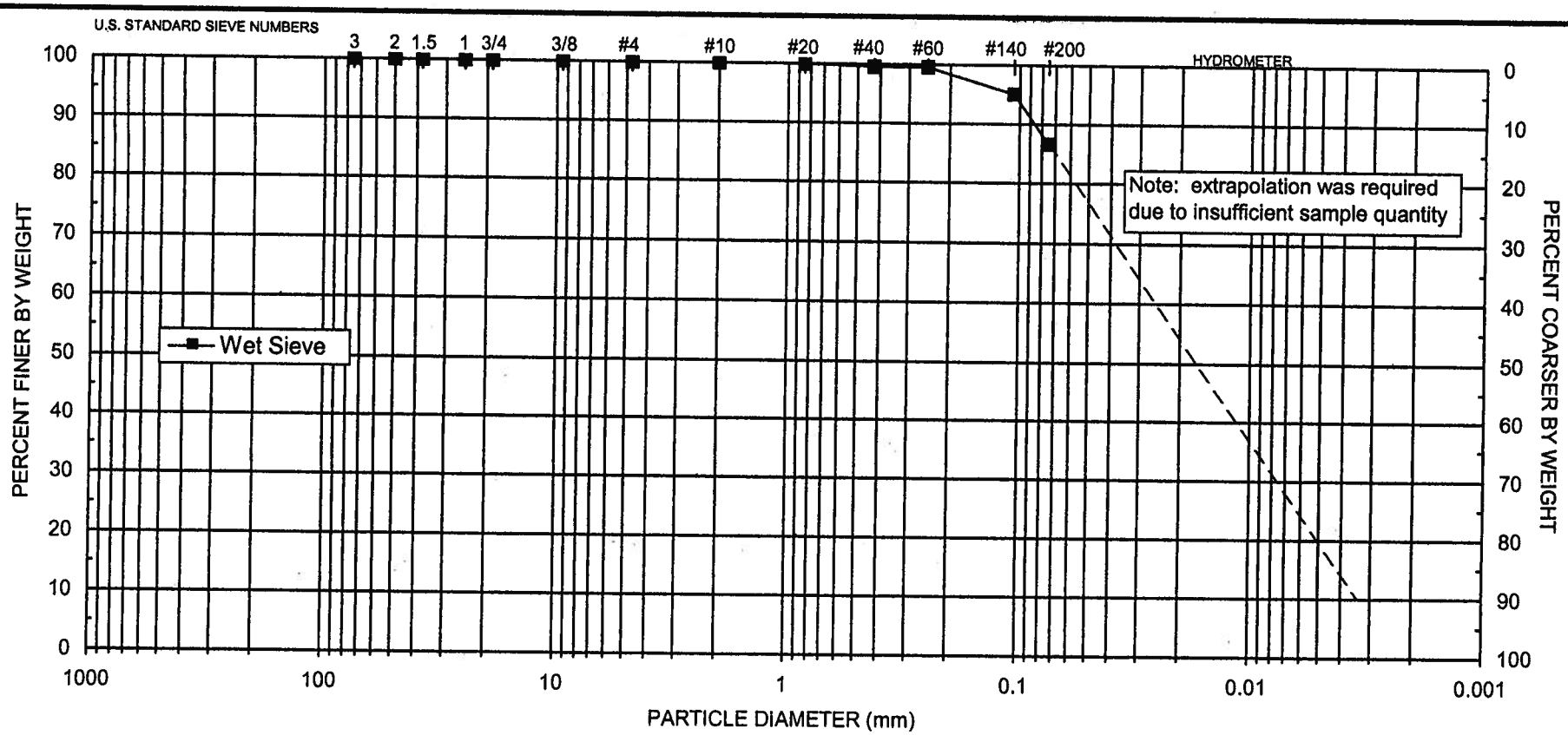
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12216	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

—RIO GRANDE @ BUCKMAN—
—FIELD DUPLICATE—

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12214
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.45
Weight Passing #10 (g): 2.45
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.45
Calculated Weight of Sieve Sample (g): 2.45

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.45	100.00
	2"	50	0.00	0.00	2.45	100.00
	1.5"	38.1	0.00	0.00	2.45	100.00
	1"	25	0.00	0.00	2.45	100.00
	3/4"	19.0	0.00	0.00	2.45	100.00
	3/8"	9.5	0.00	0.00	2.45	100.00
	4	4.75	0.00	0.00	2.45	100.00
	10	2.00	0.00	0.00	2.45	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.45	100.00
	40	0.425	0.01	0.01	2.44	99.59
	60	0.250	0.00	0.01	2.44	99.59
	140	0.106	0.17	0.18	2.27	92.65
	200	0.075	0.25	0.43	2.02	82.45
	dry pan		0.04	0.47	1.98	
	wet pan			1.98	0.00	

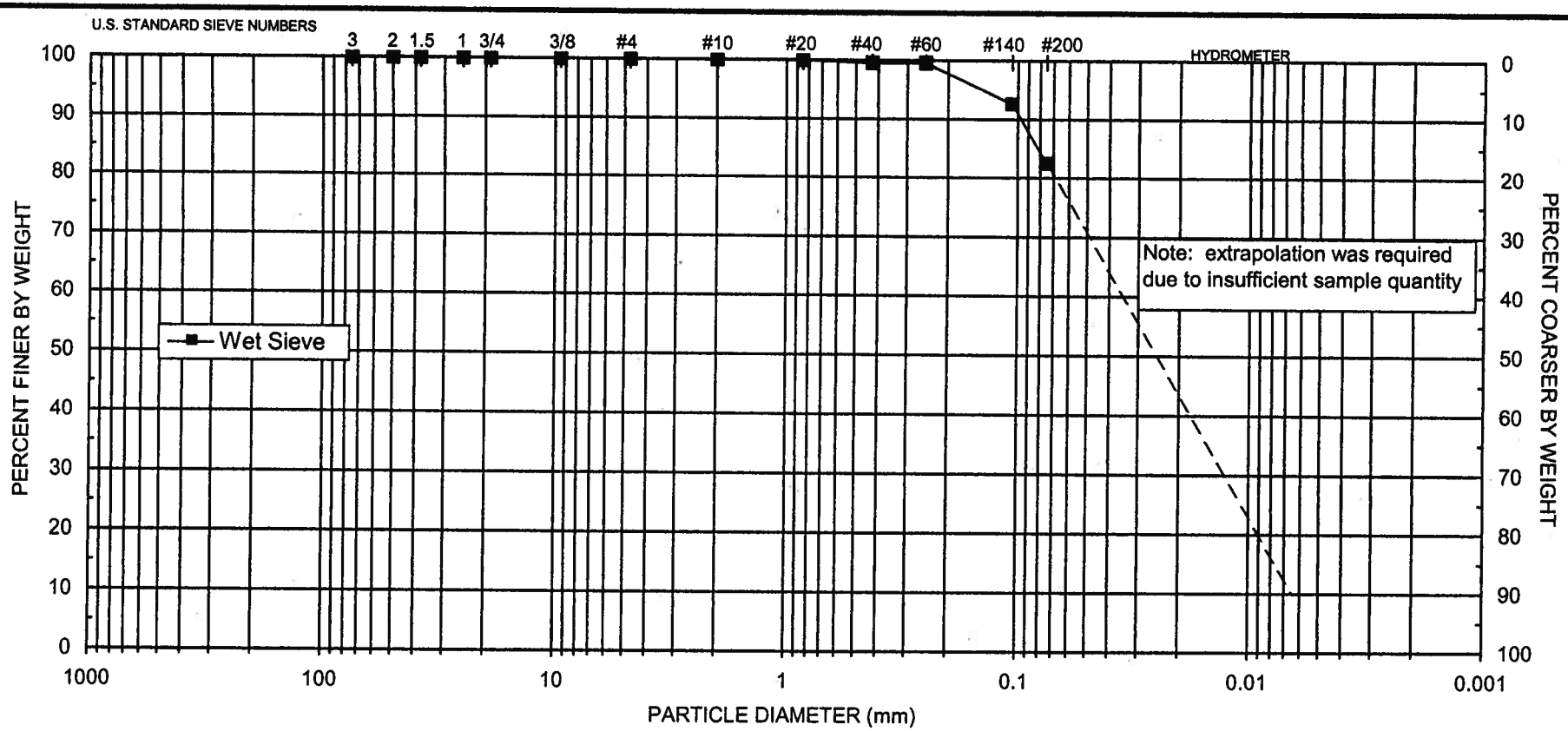
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY	
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12214	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	Am-241	HASL-300:AM-241	F	<	-0.0086	pCi/L	0.01	0.034	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Am-241	HASL-300:AM-241	UF	<	0.015	pCi/L	0.01	0.031	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Cs-137	EPA:901.1	F	<	0.255	pCi/L	1.3	4.3	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Cs-137	EPA:901.1	UF	<	0.259	pCi/L	1.4	4.8	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Co-60	EPA:901.1	F	<	-0.872	pCi/L	1.6	5.1	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Co-60	EPA:901.1	UF	<	-0.0971	pCi/L	1.6	5.1	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	GROSSA	EPA:900	F	<	2.2	pCi/L	0.88	2		U	R11	15	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	GROSSA	EPA:900	UF		7.31	pCi/L	1.7	2.4				15	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	GROSSB	EPA:900	F	<	2.64	pCi/L	0.97	2.9		U	R11	50	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	GROSSB	EPA:900	UF		8.2	pCi/L	1.3	2.6				50	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	GROSSG	EPA:901.1	F	<	16.9	pCi/L	14	21	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	GROSSG	EPA:901.1	UF	<	6.02	pCi/L	5.4	11	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Np-237	EPA:901.1	F	<	2.46	pCi/L	8.5	28	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Np-237	EPA:901.1	UF	<	-19.5	pCi/L	11	32	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Pu-238	HASL-300:ISOPU	F	<	-0.0052	pCi/L	0.01	0.036	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Pu-238	HASL-300:ISOPU	UF	<	-0.00526	pCi/L	0.01	0.037	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Pu-239/240	HASL-300:ISOPU	F	<	-0.0026	pCi/L	0	0.044	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Pu-239/240	HASL-300:ISOPU	UF	<	0.00788	pCi/L	0.01	0.045	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	K-40	EPA:901.1	F	<	-12.8	pCi/L	18	59	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	K-40	EPA:901.1	UF	<	2.98	pCi/L	19	67	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Ra-226	EPA:903.1	F	<	0.36	pCi/L	0.14	0.42	U	U	R5	5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ra-226	EPA:903.1	UF	<	0.345	pCi/L	0.15	0.43	U	U	R5	5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ra-228	EPA:904	F		0.482	pCi/L	0.16	0.42				5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ra-228	EPA:904	UF		0.72	pCi/L	0.21	0.54				5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Na-22	EPA:901.1	F	<	-0.338	pCi/L	1.2	3.9	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Na-22	EPA:901.1	UF	<	-0.743	pCi/L	1.3	3.9	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Sr-90	EPA:905.0	F	<	0.102	pCi/L	0.09	0.31	U	U	R5	8	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Sr-90	EPA:905.0	UF	<	0.0245	pCi/L	0.09	0.34	U	U	R5	8	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Th-228	HASL-300:ISOTH	F	<	0.0843	pCi/L	0.02	0.11	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Th-228	HASL-300:ISOTH	UF		0.305	pCi/L	0.03	0.094						CS		GELC
Buckman Diversion SW	07/30/08	Th-230	HASL-300:ISOTH	F	<	0.0806	pCi/L	0.02	0.1	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Th-230	HASL-300:ISOTH	UF		0.204	pCi/L	0.02	0.084						CS		GELC
Buckman Diversion SW	07/30/08	Th-232	HASL-300:ISOTH	F	<	0.00219	pCi/L	0.01	0.037	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	Th-232	HASL-300:ISOTH	UF		0.205	pCi/L	0.02	0.031						CS		GELC
Buckman Diversion SW	07/30/08	H-3	Low_Level_Tritium	UF		18.9	pCi/L	0.61	0.287				20000	EPA PRIM DW LVL	CS		UMTL
Buckman Diversion SW	07/30/08	U-234	HASL-300:ISOU	F		0.847	pCi/L	0.16	0.58						CS		GELC
Buckman Diversion SW	07/30/08	U-234	HASL-300:ISOU	UF		1.09	pCi/L	0.19	0.57						CS		GELC
Buckman Diversion SW	07/30/08	U-235/236	HASL-300:ISOU	F	<	0.0193	pCi/L	0.03	0.33	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	U-235/236	HASL-300:ISOU	UF	<	0.088	pCi/L	0.05	0.33	U	U	R5			CS		GELC
Buckman Diversion SW	07/30/08	U-238	HASL-300:ISOU	F		0.637	pCi/L	0.13	0.3						CS		GELC
Buckman Diversion SW	07/30/08	U-238	HASL-300:ISOU	UF		0.673	pCi/L	0.14	0.3						CS		GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Uncertainty (1-sigma)**	**Std Mda**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Scr Lvl**	**Lvl Type Code**	**Lab Sample Type Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	07/30/08	Am-241	HASL-300:AM-241	F	<	0.031	pCi/L	0.01	0.035	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Am-241	HASL-300:AM-241	UF	<	0.0239	pCi/L	0.01	0.031	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Cs-137	EPA:901.1	F	<	1.78	pCi/L	1.5	5.1	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Cs-137	EPA:901.1	UF	<	0.884	pCi/L	1.3	4.6	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Co-60	EPA:901.1	F	<	2.1	pCi/L	1.5	5.4	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Co-60	EPA:901.1	UF	<	2.72	pCi/L	1.5	5.7	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSAB	EPA:900	F	<	3.15	pCi/L	1.1	1.8		U	R11	15	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSAB	EPA:900	UF		5.15	pCi/L	1.4	2.4				15	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSB	EPA:900	F	<	1.44	pCi/L	0.9	3		U	R11	50	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSB	EPA:900	UF		7.43	pCi/L	1.3	3				50	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSG	EPA:901.1	F	<	7.57	pCi/L	15	14	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	GROSSG	EPA:901.1	UF	<	18.3	pCi/L	20	32	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Np-237	EPA:901.1	F	<	-21.4	pCi/L	13	33	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Np-237	EPA:901.1	UF	<	5.35	pCi/L	8.6	29	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Pu-238	HASL-300:ISOPU	F	<	-0.00454	pCi/L	0	0.032	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Pu-238	HASL-300:ISOPU	UF	<	-0.0188	pCi/L	0.01	0.033	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Pu-239/240	HASL-300:ISOPU	F	<	-0.00454	pCi/L	0.01	0.039	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Pu-239/240	HASL-300:ISOPU	UF	<	0.00471	pCi/L	0	0.04	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	K-40	EPA:901.1	F	<	60.7	pCi/L	16	66	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	K-40	EPA:901.1	UF	<	5.88	pCi/L	17	62	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Ra-226	EPA:903.1	F	<	0.144	pCi/L	0.13	0.46	U	U	R5	5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Ra-226	EPA:903.1	UF	<	0.415	pCi/L	0.15	0.42	U	U	R5	5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Ra-228	EPA:904	F		0.715	pCi/L	0.21	0.56				5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Ra-228	EPA:904	UF		0.735	pCi/L	0.19	0.43				5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Na-22	EPA:901.1	F	<	1.55	pCi/L	1.4	5.2	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Na-22	EPA:901.1	UF	<	-0.295	pCi/L	1.3	4.2	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Sr-90	EPA:905.0	F	<	-0.184	pCi/L	0.07	0.33	U	U	R5	8	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Sr-90	EPA:905.0	UF	<	0.166	pCi/L	0.12	0.41	U	U	R5	8	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-228	HASL-300:ISOTH	F	<	0.052	pCi/L	0.02	0.11	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-228	HASL-300:ISOTH	UF		0.296	pCi/L	0.03	0.097						CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-230	HASL-300:ISOTH	F	<	0.0446	pCi/L	0.01	0.095	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-230	HASL-300:ISOTH	UF		0.202	pCi/L	0.02	0.086						CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-232	HASL-300:ISOTH	F	<	-0.00619	pCi/L	0.01	0.034	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	Th-232	HASL-300:ISOTH	UF		0.147	pCi/L	0.02	0.031						CS	FD	GELC
Buckman Diversion SW	07/30/08	H-3	Low_Level_Tritium	UF		18.55	pCi/L	0.61	0.287				20000	EPA PRIM DW LVL	CS	FD	UMTL
Buckman Diversion SW	07/30/08	U-234	HASL-300:ISOU	F		0.829	pCi/L	0.14	0.5						CS	FD	GELC
Buckman Diversion SW	07/30/08	U-234	HASL-300:ISOU	UF		0.91	pCi/L	0.16	0.51						CS	FD	GELC
Buckman Diversion SW	07/30/08	U-235/236	HASL-300:ISOU	F	<	0.0767	pCi/L	0.05	0.29	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	U-235/236	HASL-300:ISOU	UF	<	0.0397	pCi/L	0.03	0.3	U	U	R5			CS	FD	GELC
Buckman Diversion SW	07/30/08	U-238	HASL-300:ISOU	F		0.534	pCi/L	0.11	0.26						CS	FD	GELC
Buckman Diversion SW	07/30/08	U-238	HASL-300:ISOU	UF		0.733	pCi/L	0.14	0.27						CS	FD	GELC

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	67-64-1	Acetone	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25	ug/L	6.3	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	107-02-8	Acrolein	SW-846:8260B	UF	<	5	ug/L	3	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	71-43-2	Benzene	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-25-2	Bromoform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	74-83-9	Bromomethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5	ug/L	3.7	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-00-3	Chloroethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	67-66-3	Chloroform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	74-87-3	Chloromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	<	50	ug/L	20	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	UJ	V7c	CS		GELC
Buckman Diversion SW	07/30/08	74-88-4	Iodomethane	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	5	ug/L	2	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	91-20-3	Naphthalene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	107-12-0	Propionitrile	SW-846:8260B	UF	<	5	ug/L	1.5	U	R	V7b	CS		GELC
Buckman Diversion SW	07/30/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	100-42-5	Styrene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-88-3	Toluene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1	ug/L	0.31	U	UJ	V7c	CS		GELC
Buckman Diversion SW	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5	ug/L	1.5	U	U	U_LAB	CS		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	ne[1,3 and 1	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	67-64-1	Acetone	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25	ug/L	6.3	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	107-02-8	Acrolein	SW-846:8260B	UF	<	5	ug/L	3	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	71-43-2	Benzene	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-25-2	Bromoform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	74-83-9	Bromomethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5	ug/L	3.7	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-00-3	Chloroethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	67-66-3	Chloroform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	74-87-3	Chloromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	<	50	ug/L	20	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	UJ	V7c	CS	FTB	GELC
Buckman Diversion SW	07/30/08	74-88-4	Iodomethane	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	5	ug/L	2	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	91-20-3	Naphthalene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	107-12-0	Propionitrile	SW-846:8260B	UF	<	5	ug/L	1.5	U	R	V7b	CS	FTB	GELC
Buckman Diversion SW	07/30/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	100-42-5	Styrene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-88-3	Toluene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1	ug/L	0.31	U	UJ	V7c	CS	FTB	GELC
Buckman Diversion SW	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5	ug/L	1.5	U	U	U_LAB	CS	FTB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	ne[1,3 and 1	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2	ug/L	0.25	U	U	U_LAB	CS	FTB	GELC
Buckman Diversion SW	07/30/08	67-64-1	Acetone	SW-846:8260B	UF		1.83	ug/L	1.3	J	J	J_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25	ug/L	6.3	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	107-02-8	Acrolein	SW-846:8260B	UF	<	5	ug/L	3	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	71-43-2	Benzene	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-25-2	Bromoform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	74-83-9	Bromomethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5	ug/L	3.7	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-00-3	Chloroethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	67-66-3	Chloroform	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	74-87-3	Chloromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	<	50	ug/L	20	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	UJ	V7c	CS	FD	GELC
Buckman Diversion SW	07/30/08	74-88-4	Iodomethane	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50	ug/L	13	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5	ug/L	1.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	5	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	91-20-3	Naphthalene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	107-12-0	Propionitrile	SW-846:8260B	UF	<	5	ug/L	1.5	U	R	V7b	CS	FD	GELC
Buckman Diversion SW	07/30/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	100-42-5	Styrene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-88-3	Toluene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1	ug/L	0.31	U	UJ	V7c	CS	FD	GELC
Buckman Diversion SW	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1	ug/L	0.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5	ug/L	1.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1	ug/L	0.25	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	ne[1,3 and 1	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2	ug/L	0.25	U	U	U_LAB	CS	FD	GELC

Table 3.0
Rio Grande at Buckman
Semi-volatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Std MDL	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	83-32-9	Acenaphthene	SW-846:8270C	UF	1.04	ug/L	0.32	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	62-53-3	Aniline	SW-846:8270C	UF	10.4	ug/L	2.6	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	120-12-7	Anthracene	SW-846:8270C	UF	1.04	ug/L	0.23	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	1912-24-9	Atrazine	SW-846:8270C	UF	10.4	ug/L	2.1	U	R	SVTa	CS		GELC
Buckman Diversion SW	07/30/08	103-33-3	Azobenzene	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	92-87-5	Benzidine	SW-846:8270C	UF	10.4	ug/L	2.1	U	UJ	SVTa	CS		GELC
Buckman Diversion SW	07/30/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	1.04	ug/L	0.23	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	1.04	ug/L	0.23	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	1.04	ug/L	0.25	U	U	U_LAB	CS		GELC
Buckman Diversion SW	65-85-0	65-85-0	Benzoic Acid	SW-846:8270C	UF	20.8	ug/L	6.3	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	101-55-3	4-Bromophenyl-phenylether[4-b]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-47-8	4-Chloroaniline[4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	1.04	ug/L	0.37	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	7005-72-3	4-Chlorophenyl-phenylether[4-] Ether	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	218-01-9	Chrysene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-50-1	1,2-Dichlorobenzene[1,2-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	541-73-1	1,3-Dichlorobenzene[1,3-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-46-7	1,4-Dichlorobenzene[1,4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	91-94-1	3,3-Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	10.4	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	120-83-2	2,4-Dichlorophenol[2,4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	105-67-9	2,4-Dimethylphenol[2,4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	534-52-1	4,6-Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	51-28-5	2,4-Dinitrophenol[2,4-]	SW-846:8270C	UF	20.8	ug/L	10	U	U	U_LAB	CS		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Std MDL	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	121-14-2	2,4-Dinitrotoluene[2,4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	606-20-2	2,6-Dinitrotoluene[2,6-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	88-85-7	Dinoseb	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	10.4	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	122-39-4	Diphenylamine	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	206-44-0	Fluoranthene	SW-846:8270C	UF	1.04	ug/L	0.23	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	86-73-7	Fluorene	SW-846:8270C	UF	1.04	ug/L	0.23	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	78-59-1	Isophorone	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	90-12-0	1-Methylnaphthalene[1-]	SW-846:8270C	UF	1.04	ug/L	0.31	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	91-57-6	2-Methylnaphthalene[2-]	SW-846:8270C	UF	1.04	ug/L	0.31	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-48-7	2-Methylphenol[2-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	106-44-5	4-Methylphenol[4-]	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	91-20-3	Naphthalene	SW-846:8270C	UF	1.04	ug/L	0.31	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	88-74-4	2-Nitroaniline[2-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	99-09-2	3-Nitroaniline[3-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	100-01-6	4-Nitroaniline[4-]	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	10.4	ug/L	3.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	88-75-5	2-Nitrophenol[2-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	UJ	SVTa	CS		GELC
Buckman Diversion SW	07/30/08	100-02-7	4-Nitrophenol[4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	924-16-3	N-Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	621-64-7	N-Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	62-18-5	N-Nitrosodiethylamine[N-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	62-75-9	N-Nitrosodimethylamine[N-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	836-55-2	N-Nitrosopyrrolidine[N-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	UJ	SVTc	CS		GELC
Buckman Diversion SW	07/30/08	108-60-1	Oxybis[2-chloropropane][2,2'-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	85-01-8	Phenanthrene	SW-846:8270C	UF	1.04	ug/L	0.21	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	108-95-2	Phenol	SW-846:8270C	UF	10.4	ug/L	1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	129-00-0	Pyrene	SW-846:8270C	UF	1.04	ug/L	0.31	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	110-86-1	Pyridine	SW-846:8270C	UF	10.4	ug/L	1	U	UJ	SVTc	CS		GELC
Buckman Diversion SW	07/30/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	10.4	ug/L	1	U	U	U_LAB	CS		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Std MDL	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	10.4	ug/L	2.1	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	83-32-9	Acenaphthene	SW-846:8270C	UF	1	ug/L	0.10	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	62-53-3	Aniline	SW-846:8270C	UF	10	ug/L	2.5	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	120-12-7	Anthracene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	1912-24-9	Atrazine	SW-846:8270C	UF	10	ug/L	2	U	R	SVTa	CS	FD	GELC
Buckman Diversion SW	07/30/08	103-33-3	Azobenzene	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	92-87-5	Benzidine	SW-846:8270C	UF	10	ug/L	2	U	UJ	SVTa	CS	FD	GELC
Buckman Diversion SW	07/30/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	20	ug/L	6	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	101-55-3	4-Bromophenyl-phenylether[4-b]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-47-8	4-Chloroaniline[4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	1	ug/L	0.35	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	7005-72-3	4-Chlorophenyl-phenylether[4-] Ether	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	218-01-9	Chrysene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-50-1	1,2-Dichlorobenzene[1,2-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	541-73-1	1,3-Dichlorobenzene[1,3-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-46-7	1,4-Dichlorobenzene[1,4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	91-94-1	3,3-Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	10	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	120-83-2	2,4-Dichlorophenol[2,4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	105-67-9	2,4-Dimethylphenol[2,4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	534-52-1	4,6-Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	51-28-5	2,4-Dinitrophenol[2,4-]	SW-846:8270C	UF	20	ug/L	10	U	U	U_LAB	CS	FD	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Std MDL	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	121-14-2	2,4-Dinitrotoluene[2,4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	606-20-2	2,6-Dinitrotoluene[2,6-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	88-85-7	Dinoseb	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	10	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	122-39-4	Diphenylamine	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	206-44-0	Fluoranthene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	86-73-7	Fluorene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	78-59-1	Isophorone	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	90-12-0	1-Methylnaphthalene[1-]	SW-846:8270C	UF	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	91-57-6	2-Methylnaphthalene[2-]	SW-846:8270C	UF	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-48-7	2-Methylphenol[2-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	106-44-5	4-Methylphenol[4-]	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	91-20-3	Naphthalene	SW-846:8270C	UF	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	88-74-4	2-Nitroaniline[2-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	99-09-2	3-Nitroaniline[3-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	100-01-6	4-Nitroaniline[4-]	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	10	ug/L	3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	88-75-5	2-Nitrophenol[2-]	SW-846:8270C	UF	10	ug/L	2	U	UJ	SVTa	CS	FD	GELC
Buckman Diversion SW	07/30/08	100-02-7	4-Nitrophenol[4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	924-16-3	N-Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	621-64-7	N-Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	62-18-5	N-Nitrosodiethylamine[N-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	62-75-9	N-Nitrosodimethylamine[N-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	836-55-2	N-Nitrosopyrrolidine[N-]	SW-846:8270C	UF	10	ug/L	2	U	UJ	SVTc	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-60-1	Oxybis[2-chloropropane][2,2'-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	85-01-8	Phenanthrene	SW-846:8270C	UF	1	ug/L	0.2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	108-95-2	Phenol	SW-846:8270C	UF	10	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	129-00-0	Pyrene	SW-846:8270C	UF	1	ug/L	0.3	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	110-86-1	Pyridine	SW-846:8270C	UF	10	ug/L	1	U	UJ	SVTc	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	10	ug/L	1	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	10	ug/L	2	U	U	U_LAB	CS	FD	GELC

Table 4.0
Rio Grande at Buckman
PCBs and Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.102	ug/L	0.034	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.0085	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.013	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.0066	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.2	ug/L	0.05	U	U	U_LAB	CS		GELC
Buckman Diversion SW	07/30/08	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.5	ug/L	0.15	U	U	U_LAB	CS		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Sample Type Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	07/30/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.1	ug/L	0.033	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.0085	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.013	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.0066	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.005	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.2	ug/L	0.05	U	U	U_LAB	CS	FD	GELC
Buckman Diversion SW	07/30/08	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.5	ug/L	0.15	U	U	U_LAB	CS	FD	GELC

Table 5.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	ALK-CO3	EPA:310.1	UF	<	1	mg/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	ALK-CO3+HCO3	EPA:310.1	UF		99.8	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	NH3-N	EPA:350.1	UF	<	0.05	mg/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Ca	SW-846:6010B	F		31	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	Ca	SW-846:6010B	UF		30.7	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	Cl(-1)	EPA:300.0	UF		4.21	mg/L				250	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	U	U	U_LAB	0.2	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	DO	Generic Field Measurement	UF		8.39	mg/L						CS		FLD
Buckman Diversion SW	07/30/08	F(-1)	EPA:300.0	UF		0.35	mg/L				4	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	HARDNESS	SM:A2340B	F		101	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	HARDNESS	SM:A2340B	UF		102	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	Mg	SW-846:6010B	F		5.63	mg/L	E					CS		GELC
Buckman Diversion SW	07/30/08	Mg	SW-846:6010B	UF		6.2	mg/L	E					CS		GELC
Buckman Diversion SW	07/30/08	NO3+NO2-N	EPA:353.2	UF		0.04	mg/L	J	J	J_LAB	10	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	ClO4	SW-846:6850	UF		0.06	ug/L	J	J	J_LAB			CS		GELC
Buckman Diversion SW	07/30/08	K	SW-846:6010B	F		2.39	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	K	SW-846:6010B	UF		2.59	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	Na	SW-846:6010B	F		13.9	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	Na	SW-846:6010B	UF		13.5	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		261	uS/cm						CS		FLD
Buckman Diversion SW	07/30/08	SPEC_CONDC	EPA:120.1	UF		265	uS/cm						CS		GELC
Buckman Diversion SW	07/30/08	SO4(-2)	EPA:300.0	UF		30.5	mg/L				250	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	SSC	EPA:160.2	UF		257	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	TEMP	GENERIC FIELD TEMP	UF		23.4	deg C						CS		FLD
Buckman Diversion SW	07/30/08	TDS	EPA:160.1	UF		177	mg/L				500	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	TKN	EPA:351.2	UF	<	0.25	mg/L		R	I6			CS		GELC
Buckman Diversion SW	07/30/08	TOC	SW-846:9060	UF		3.62	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	PO4-P	EPA:365.4	UF		0.24	mg/L						CS		GELC
Buckman Diversion SW	07/30/08	TURB	GENERIC FIELD TURB	UF		109	NTU						CS		FLD
Buckman Diversion SW	07/30/08	pH	GENERIC FIELD PH	UF		8.16	SU				6.5-8.5	EPA SEC DW LVL	CS		FLD
Buckman Diversion SW	07/30/08	pH	EPA:150.1	UF		8.31	SU	H	J-	I9a	6.5-8.5	EPA SEC DW LVL	CS		GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Sample Type Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	07/30/08	ALK-CO3	EPA:310.1	UF	<	1	mg/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	ALK-CO3+HCO3	EPA:310.1	UF		98.2	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	NH3-N	EPA:350.1	UF	<	0.05	mg/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Ca	SW-846:6010B	F		30.1	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Ca	SW-846:6010B	UF		31.6	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Cl(-1)	EPA:300.0	UF		4.21	mg/L				250	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	U	U	U_LAB	0.2	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	F(-1)	EPA:300.0	UF		0.34	mg/L				4	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	HARDNESS	SM:A2340B	F		97.8	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	HARDNESS	SM:A2340B	UF		102	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Mg	SW-846:6010B	F		5.52	mg/L	E					CS	FD	GELC
Buckman Diversion SW	07/30/08	Mg	SW-846:6010B	UF		5.5	mg/L	E	J	I18			CS	FD	GELC
Buckman Diversion SW	07/30/08	NO3+NO2-N	EPA:353.2	UF		0.03	mg/L	J	J	J_LAB	10	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	ClO4	SW-846:6850	UF		0.06	ug/L	J	J	J_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	K	SW-846:6010B	F		2.27	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	K	SW-846:6010B	UF		2.56	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Na	SW-846:6010B	F		13.4	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Na	SW-846:6010B	UF		13.7	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	SPEC_CONDC	EPA:120.1	UF		264	uS/cm						CS	FD	GELC
Buckman Diversion SW	07/30/08	SO4(-2)	EPA:300.0	UF		30.6	mg/L				250	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	SSC	EPA:160.2	UF		375	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	TDS	EPA:160.1	UF		176	mg/L				500	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	TKN	EPA:351.2	UF	<	0.14	mg/L		R	I6			CS	FD	GELC
Buckman Diversion SW	07/30/08	TOC	SW-846:9060	UF		3.43	mg/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	PO4-P	EPA:365.4	UF		0.29	mg/L						CS	FD	GELC

Table 6.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	07/30/08	Ag	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ag	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Al	SW-846:6010B	F	<	200	ug/L	UN*	UJ	I6b	200	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Al	SW-846:6010B	UF		1510	ug/L	N*	J+	I6b	200	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	As	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	As	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	B	SW-846:6010B	F		22.7	ug/L	J	J	J_LAB			CS		GELC
Buckman Diversion SW	07/30/08	B	SW-846:6010B	UF		30.9	ug/L	J	J	J_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Ba	SW-846:6010B	F		57.6	ug/L				2000	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ba	SW-846:6010B	UF		61.3	ug/L				2000	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Be	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Be	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Cd	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Cd	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Co	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Co	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Cr	SW-846:6020	F		2.7	ug/L	J	J	J_LAB	100	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Cr	SW-846:6020	UF		3.9	ug/L				100	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Cu	SW-846:6010B	F	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Cu	SW-846:6010B	UF	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Fe	SW-846:6010B	F	<	100	ug/L	U*	UJ	I10a	300	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Fe	SW-846:6010B	UF		1060	ug/L	*	J	I10a	300	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Hg	EPA:245.2	F	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Hg	EPA:245.2	UF	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Mn	SW-846:6010B	F		2.2	ug/L	J*	J	J_LAB	50	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Mn	SW-846:6010B	UF		38.1	ug/L	*			50	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Mo	SW-846:6020	F		4.1	ug/L		J	I4a			CS		GELC
Buckman Diversion SW	07/30/08	Mo	SW-846:6020	UF		4.5	ug/L		J	I4a			CS		GELC
Buckman Diversion SW	07/30/08	Ni	SW-846:6020	F		1.1	ug/L	J	J	J_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Ni	SW-846:6020	UF		2.3	ug/L						CS		GELC
Buckman Diversion SW	07/30/08	Pb	SW-846:6020	F	<	2	ug/L	U	U	U_LAB	15	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Pb	SW-846:6020	UF		1.6	ug/L	J	J	J_LAB	15	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Sb	SW-846:6020	F	<	2	ug/L	U	U	U_LAB	6	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Sb	SW-846:6020	UF	<	0.68	ug/L	J	U	14	6	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Se	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Se	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	SiO2	SW-846:6010B	UF		25.3	mg/L	N*	J+	I6b			CS		GELC
Buckman Diversion SW	07/30/08	Sn	SW-846:6010B	F	<	100	ug/L	U	U	U_LAB			CS		GELC
Buckman Diversion SW	07/30/08	Sn	SW-846:6010B	UF	<	100	ug/L	U	U	U_LAB			CS		GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Sample Type Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	07/30/08	Sr	SW-846:6010B	F		224	ug/L						CS		GELC
Buckman Diversion SW	07/30/08	Sr	SW-846:6010B	UF		221	ug/L						CS		GELC
Buckman Diversion SW	07/30/08	Tl	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Tl	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	U	SW-846:6020	F		1.9	ug/L				30	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	U	SW-846:6020	UF		2.1	ug/L				30	EPA PRIM DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	V	SW-846:6010B	F		4.9	ug/L	J	J	J_LAB			CS		GELC
Buckman Diversion SW	07/30/08	V	SW-846:6010B	UF		8.2	ug/L						CS		GELC
Buckman Diversion SW	07/30/08	Zn	SW-846:6010B	F		3	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Zn	SW-846:6010B	UF		4.8	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS		GELC
Buckman Diversion SW	07/30/08	Ag	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Ag	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Al	SW-846:6010B	F	<	200	ug/L	UN*	UJ	I6b	200	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Al	SW-846:6010B	UF		1380	ug/L	N*	J+	I6b	200	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	As	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	As	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	B	SW-846:6010B	F		27.9	ug/L	J	J	J_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	B	SW-846:6010B	UF		34.3	ug/L	J	J	J_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Ba	SW-846:6010B	F		53.6	ug/L				2000	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Ba	SW-846:6010B	UF		63.7	ug/L				2000	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Be	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Be	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Cd	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Cd	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Co	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Co	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Cr	SW-846:6020	F		2.6	ug/L	J	J	J_LAB	100	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Cr	SW-846:6020	UF		4.4	ug/L				100	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Cu	SW-846:6010B	F	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Cu	SW-846:6010B	UF	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Fe	SW-846:6010B	F	<	100	ug/L	U*	UJ	I10a	300	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Fe	SW-846:6010B	UF		842	ug/L	*	J	I10a	300	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Hg	EPA:245.2	F	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Hg	EPA:245.2	UF	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Mn	SW-846:6010B	F	<	10	ug/L	U*	U	U_LAB	50	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Mn	SW-846:6010B	UF		38.8	ug/L	*			50	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Mo	SW-846:6020	F		4.2	ug/L		J	I4a			CS	FD	GELC
Buckman Diversion SW	07/30/08	Mo	SW-846:6020	UF		4.5	ug/L		J	I4a			CS	FD	GELC
Buckman Diversion SW	07/30/08	Ni	SW-846:6020	F		1.1	ug/L	J	J	J_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Ni	SW-846:6020	UF		2.5	ug/L						CS	FD	GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Sample Type Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	07/30/08	Pb	SW-846:6020	F	<	2	ug/L	U	U	U_LAB	15	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Pb	SW-846:6020	UF		2	ug/L				15	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Sb	SW-846:6020	F	<	0.57	ug/L	J	U	I4	6	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Sb	SW-846:6020	UF	<	1.1	ug/L	J	U	I4	6	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Se	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Se	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	SiO2	SW-846:6010B	UF		25	mg/L	N*	J+	I6b			CS	FD	GELC
Buckman Diversion SW	07/30/08	Sn	SW-846:6010B	F	<	100	ug/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Sn	SW-846:6010B	UF	<	100	ug/L	U	U	U_LAB			CS	FD	GELC
Buckman Diversion SW	07/30/08	Sr	SW-846:6010B	F		216	ug/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Sr	SW-846:6010B	UF		225	ug/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Tl	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Tl	SW-846:6020	UF		0.67	ug/L	J	J	J_LAB	2	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	U	SW-846:6020	F		1.9	ug/L				30	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	U	SW-846:6020	UF		2.1	ug/L				30	EPA PRIM DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	V	SW-846:6010B	F		5.9	ug/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	V	SW-846:6010B	UF		7.1	ug/L						CS	FD	GELC
Buckman Diversion SW	07/30/08	Zn	SW-846:6010B	F		2.2	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS	FD	GELC
Buckman Diversion SW	07/30/08	Zn	SW-846:6010B	UF		6	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS	FD	GELC

Table S5-7 Secondary Validation Reason Codes

Valid Rea	Valid Reason Desc
C12d	VOC_C12d
DR12a	ORGANIC_ODRO12a
DR3b	ORGANIC_ODRO3b
DR9a	ORGANIC_ODRO9a
G_LIA	The sample was lost in analysis. Results are not available for this sample.
G_MDA	The limit type (e.g. MDA, MDC, or DLC) was not reported by the analytical laboratory; the reported limit value has been saved in the MDA field.
G_NQ	No data qualifier flag has been applied to this sample result.
G_TPU	Result less than or equal to 3 * 1-sigma TPU, therefore not detected (U).
G165b	GAMMA_GR165b
G165c	GAMMA_GR165c
G16b	GAMMA_G16b
G16bc	GAMMA_GR16bc
G16c	GAMMA_G16c
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertainty.
G9a	GAMMA_G9a
G9ra	GAMMA_G9ra
GADM1	GAMMA_GADMIN1
GADMI	GAMMA_GADMIN1
GCZ	CST put zeros in the TPU field to indicate non-detects, therefore not detected (U).
GI16b	GAMMA_GI16b
GI16c	GAMMA_GI16c
GI16d	GAMMA_GI16d
GI4	GAMMA_GI4
GI5	GAMMA_GI5
GIQ	GIQ
GIR16	GAMMA_GIR16c
GJCST	Chemical Sciences and Technology validators assigned a J qualifier to this sample result. The hardcopy validation report should be reviewed to determine the reason for applying the J qualifier.
GJLAB	GJLAB_GAMMA
GLCS	The percent recovery from the laboratory control sample for this analyte was less than 10%.
GNONE	A reason code is not available in the database for the data qualifier(s) applied to this sample result.
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectrum.
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitated.
GR1	The tracer yield information is missing. Data may not be acceptable for use.
GR10	GAMMA_GR10
GR10a	GAMMA_GR10a
GR11	GAMMA_GR11
GR15b	GAMMA_GR15b
GR15c	GAMMA_GR15c
GR16	GAMMA_GR16
GR165	GAMMA_GR165b
GR166	GAMMA_GR166
GR16a	GAMMA_GR16a
GR16b	GAMMA_GR16b
GR16c	GAMMA_GR16c
GR16d	GAMMA_GR16d
GR16g	GAMMA_GR16g
GR17c	GAMMA_GR17c
GR19	The validator identified quality deficiencies in the reported data that require qualification.
GR1a	The tracer %R value is less than 10%.
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for use.
GR3a	ORGANIC_OGRO3a
GR3b	ORGANIC_OGRO3b
GR3c	ORGANIC_OGRO3c
GR3d	ORGANIC_OGRO3d
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4	GAMMA_GR4
GR4a	The resluts for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to 5x the associated sample concentration.
GR5	GAMMA_GR5
GR54	GAMMA_GR54
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for use.
GR5b	GR5b
GR6	GAMMA_GR6
GR6a	GR6a
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10%.
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR6e	GR6e
GR7	GAMMA_GR7
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7b	GAMMA_GR7b
GR7c	The affected analytes are qualified as as rejected because the RER was greater than 4
GR8	GAMMA_GR8
GR9	GAMMA_GR9
GR9a	GAMMA_GR9a
GR9b	GAMMA_GR9b
GRA	GAMMA_GRA
GRLAB	R Lab Gamma
GRNA	GAMMA_GRNA
GRR16	GAMMA_GRR16c
GRR1b	GAMMA_GRR1b
GRR6c	GAMMA_GRR16c
GSI	The reported result for this radionuclide should be regarded as rejected (R) due to spectral interference in the gamma spectrum.
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUJC	This analyte should be regarded as not detected because the analytical laboratory assigned a U lab qualifier. Chemical Sciences and Technology validators assigned the J qualifier. The hardcopy validation report should be reviewed to determine the reason for applying the J qualifier.
GULAB	This analyte should be regarded as not detected because the analytical laboratory assigned a U lab qualifier.
GUP_R	Gamma:Units and matrix inconsistent.
GZR	The result for this radionuclide was reported as zero (0); therefore this analyte should be regarded as not detected.
GZUNC	Chemical Sciences and Technology division reported this result with an uncertainty value of zero(0), indicating that this analyte should be regarded as not detected.
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for use.
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for use.
H12a	H12a
H12b	HEXP_H12b
H12c	HEXP_H12c
H12d	HEXP_H12d
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analysis.
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze it.
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualification.
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the results.
H3c	The reporting limit is approximated for nondetects because a surrogate percent recovery is lower than the LAL but greater than or equal to 10%R, which indicates an increased potential for false negative results.
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative results.
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in results.
H3g	Required surrogate information is missing. Data may not be acceptable for use.
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for use.
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for use.
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6a	HEXP_H6a
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approximate and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6c	H6c
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting limit.
H7a	HEXP_H7a
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	HEXP_H8
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for use.
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	H9a
H9b	HEXP_H9b
Hba	HEXP_Hba
HEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MDL.
HERB	ORGANIC_HERB 3A
HERB1	ORGANIC_HERB12A
HERB3	ORGANIC_HERB3
HERB4	ORGANIC_HERB4
HERB8	ORGANIC_HERB8
HERB9	ORGANIC_HERB9
HHOLD	The result should regarded as rejected (R) because the holding time was exceeded by more than 2 times.
HJCST	CST assigned the J qualifier, need hard-copy to determine CST's reason.
HNONE	No reason for historic HEXP data.
HNQ	HNQ
HQCBL	The J or R qualifier should not be accepted because the qualifier was assigned by CST based on a non-certified standard. The J or R qualifier should be ignored.
HR12a	ORGANIC_HERB12A
HR12b	ORGANIC_HERB12B
HR12c	ORGANIC_HERB12C
HR12d	ORGANIC_HERB12D
HR3a	ORGANIC_HERB 3A
HR3b	ORGANIC_HERB 3D
HR3d	ORGANIC_HERB3D
HR9	ORGANIC_HERB 9
HRLAB	R Lab HEXP
HSM	HEXP_SPECTRAL MATCH
HUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
HUJL	HUJL
HUJLA	HUJLA_HEXP
HULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criteria.
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high bias in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation report
HWQ6	The sample was improperly preserved.
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60%
I	INORGANIC_I
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The affected analytes should be regarded as estimated because the duplicate results were not analyzed on a LANL sample.
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requirements.
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I110	INORGANIC_I110
I113a	INORGANIC_I113a
I114b	INORGANIC_I114b
I13	INORGANIC_I13
I134b	INORGANIC_I134b
I13a	Insufficient sample volume was received for a duplicate-sample analysis.
I13b	The duplicate-sample analysis was not performed on a sample associated with this request number.
I13d	INORGANIC_I13d
I14	I14
I14a	Insufficient sample volume was received for a matrix-spike analysis.
I14b	The matrix-spike analysis was not performed on a sample associated with this request number.
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyze it.
I15a	An ICV was not reported for this sample.
I15b	A CCV was not reported for this sample.
I16	Relative percent difference is greater than 10% in the serial dilution sample.
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered high.
I16b	INORGANIC_I16b
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered low.
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10%.
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.995
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated samples.
I17d	INORGANIC_I17d
I18	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed.
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sample.
I18b	The affected analytes should be regarded as estimated because the serial dilution sample RPD exceeded criteria.
I19	INORGANIC_I19
I1a	INORGANIC_I1a
I20	INORGANIC_I20
I24b	INORGANIC_I24b
I2h	INORGANIC_I2h
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3b	INORGANIC_I3b
I3c	INORGANIC_I3c
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3e I	INORGANIC_I3e I4
I3eI4	INORGANIC_I3e I4
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bias.
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I3j	INORGANIC_I3j
I3l	INORGANIC_I3l
I4	INORGANIC_I4
I4a	In comparison with the preparation blank, the sample result is greater than the EDL but less than or equal to five times the concentration of the related analyte in the blank.
I4b	Preparation blank data was not reported by the analytical laboratory.
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detected.
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batch.
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laboratory.
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
IADM1	INORGANIC_IADMIN1
IADMI	INORGANIC_IADMIN1
IB	Instrument broken
ICSTZ	CST put zeros in the TPU field to indicate non-detects, therefore not detected (U).
Id	INORGANIC_Id
IDRPD	IDRPD
IEQL	INORGANIC_IEQL/MDL
IEQL/	INORGANIC_IEQL/MDL
IH6a	INORGANIC_IH6a
IHOLD	IHOLD
IICP	IICP
IJCST	CST assigned the J qualifier, need hard-copy to determine CST's reason.
IJLAB	IJLAB
ILCS	ILCS
ILIA	ILIA
ILOWS	VOC_LOWSTD
ILS	VOC_LOW STD
IMS10	IMS10
IMS30	IMS30
INONE	No Reason for historical inorganic data
INQ	INQ
IPM	INORGANIC_IPM
IQCBL	IQCBL
IR10b	INORGANIC_IR10b
IR14b	INORGANIC_IR14b
IR3	INORGANIC_IR3
IR3a	INORGANIC_IR3a
IR4	INORGANIC_IR4
IR5	INORGANIC_IR5
IR6a	INORGANIC_IR6a
IR7	INORGANIC_IR7
IR9a	INORGANIC_IR9a
IR9b	INORGANIC_IR9b
IRCST	CST assigned the R qualifier, need hard-copy to determine CST's reason.
Is	INORGANIC_Is
IU1	INORGANIC_IU1
IU3e	INORGANIC_IU3e
IUA	INORGANIC_IUA
IUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
IUJLA	IUJLA
IULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
IUP_R	Inorganic:Units and matrix inconsistent.
IUUJ	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
IV3a	INORGANIC_IV3a
IWQ1	The sample temperature was elevated
IWQ2	Negative blank samples results were greater than the MDL
IWQ3	Failed serial dilution RPD
IWQ4	Sample should have been preserved by acidification, but was not. Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could not be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation report
IWQ7	Reporting limit verification recovery was greater than the acceptance criteria
IZR	IZR
J-	VOC_J-
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL
J+	VOC_J+
LB	Gross contamination exists from a source other than the standard.
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequency.
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequency.
LB9	The sample result is less than five times the concentration of the related analyte in the blank.
LC1	The frequency of the CCV did not meet method criteria.
LC2	The CCV %D failed high.
LC3	The CCV %D failed low.
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting limit.
LDL2	The CRI recovery failed high.
LDL3	The CRI recovery failed low.
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQL.
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-detect.
LDS3	The sample result in a diluted sample was non-detect.
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is detect.
LH1	The holding time is exceeded for sample analysis
LH2	The holding time is exceeded for sample extraction
LH3	The holding time is exceeded by greater than twice the specified holding time
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ical.
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criteria.
LI4	The initial calibration slope or RF criteria were not met.
LI5	The initial calibration y-intercept criteria were not met.
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted accordingly.
LIR1	Chorine isotope ratio criteria not met.
LIS	Required IS information is missing.
LIS1	The IS area count failed high.
LIS2	The IS area count failed low.
LIS4	The IS RT is > 30secs from that of the associated standard.
LIV2	The ICV %D failed high.
LIV3	The ICV %D failed low.
LL1	The frequency of the LCS did not meet the specified criteria.
LL2	The LCS %R failed high.
LL3	The LCS %R failed low.
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteria.
LMS1	An applicable MS/MSD analysis was not performed.
LMS2	The MS/MSD %R failed high.
LMS3	The MS/MSD %R failed low.
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and low.
LOW S	VOC_LOW STD
LOWST	VOC_LOWSTD
LP1	The sample was improperly preserved.
LP3	Sample not maintained at required temperature
LR1	The sample result exceeded the calibration range.
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze it.
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performed.
LRP2	The replicate precision criteria are not met.
LS	Required surrogate information is missing. Data may not be acceptable for use.
LS1	Surrogate failed high.
LS2	Surrogate failed low.
LS4	The surrogate %R in the blank did not meet acceptance criteria.
LWQ1	Non-specified quality control failure - see report
MDL	ORGANIC_OEQL/MDL
N3TPU	NONE_<3*TPU Result less than or equal to 3 * 1-sigma TPU, therefore not detected (U).
NJCST	NONE_J_CST
NJLAB	NONE_J_LAB
NND	NONE_NONDETECT
NNQ	NONE_NQ
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifire. The analyte is detected in the sample.
NS12a	SVOC_SVV12a
NS12c	SVOC_SVV12c
NS1a	SVOC_SVVS1a
NUA	NONE_NUA
NULAB	NONE_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
NUP_R	Units and matrix inconsistent.
O12d	ORGANIC_OSV12d
OSXBL	ORGANIC_OSXBLANK
ODRO1	ORGANIC_ODRO12a
ODRO3	ORGANIC_ODRO3
ODRO4	ORGANIC_ODRO4
ODRO5	ODRO5_ORGANIC
ODRO7	ODRO7_ORGANIC
ODRO9	ORGANIC_ODRO9
OEQL/	ORGANIC_OEQL/MDL
OGR3b	OGR3b_ORGANIC
OGR3c	OGR3c_ORGANIC
OGRO3	ORGANIC_OGRO3
OGRO7	OGRO7_ORGANIC
OGRO9	ORGANIC_OGRO9
OH12b	ORGANIC_OH12b
OH9	ORGANIC_OH9
OI3	ORGANIC_OI3
OI4	ORGANIC_OI4
OI9	ORGANIC_OI9
ONONE	ORGANIC_ONONE
ONQ	ONQ
OP12a	ORGANIC_OP12a
OP12b	ORGANIC_OP12b
OP3	ORGANIC_OP3
OP3a	ORGANIC_OP3a
OP3b	ORGANIC_OP3b
OP3c	ORGANIC_OP3c
OP3d	ORGANIC_OP3d
OP4	ORGANIC_OP4
OP5	ORGANIC_OP5
OP6	ORGANIC_OP6
OP7	ORGANIC_OP7
OP7a	ORGANIC_OP7a
OP9	ORGANIC_OP9
OP9a	OP9a Organic
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12d
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluated.
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluated.
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windows.
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluated.
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the results.
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the results.
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.

P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives and false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analysis.
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze it.
P16	Required continuing calibration information is missing. Data may not be acceptable for use.
P19	The validator identified quality deficiencies in the reported data that require qualification.T
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the results.
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the results.
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative results.
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptable for use.
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing.
P4b	The surrogate information is missing. Data may not be acceptable for use.T
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar column.
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for use.
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceeded.
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MDL.
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data.
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data package.
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60%
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criteria.
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high bias in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation report
PWQ7	The sample was improperly preserved.
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%.
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysis.
R14b	The matrix-spike analysis was not performed on a sample associated with this RN
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57 54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualification.
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MDA.
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MDA.
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported.
R1x	The tracer %R value is less than 10%.
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a detect.
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MDA.
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MDA.
R3b	The matrix-spike %R value is less than 10% and the result is not-detected.
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MDA.
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the blank.
R4a	The reslults for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to 5x the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record package.
R4z	The method blank information is missing. The data may be acceptable for use.
R5	Analyte is not detected because the amount reported is less than the MDC.
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for use.
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analytes.
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the MDA.
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sample.
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10%.
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package.
R7	The duplicate information is missing. Data may not be acceptable for use.
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2.0.
R7c	The affected analytes are qualified as as rejected because the RER was greater than 4
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceeded.
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data.
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
RUP_R	RAD: Units and matrix inconsistent.
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDC
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125%
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation report
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MDL.
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than 730 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided TICs.
SV12	The LCS documentation is missing. Data may not be acceptable for use.
SV12a	The LCS percent recovery was less than 10%.
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detected.
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detected.
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze it.
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported data.
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitiating IS is greater than 200% of the area count for the previous continuing calibration.
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use.
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the porential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potential for false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicates a greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for use.
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (10x for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for use.
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for use.
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting limit.
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.05.
SV8	The affected analyte is considered not detected because mass spectrum did not meet specifications.
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use.
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceedin holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceeded.
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data.
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criteria.
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteria
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high bias in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation report
SWQ6	The sample was improperly preserved.
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60%
U_LAB	The analytical laboratory qualified the analyte as not detected.
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than 730 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use.
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%.
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detected.
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detected.
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased high.
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analysis.
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary was included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze it.
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualification.
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed high.
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use.
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the results.
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the results.
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the results.
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for use.
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (10x for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for use.
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for use.
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting limit.
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.05.
V8	The affected analyte is considered not detected because mass spectrum did not meet specifications.
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use.
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MDL.
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data.
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier.
VUP_R	VOC: Units and matrix inconsistent.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criteria.
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteria
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation report
VWQ6	The sample was improperly preserved.
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60%

Table S5-6.

Valid Flag
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Table 55-5 Laboratory Qualification Codes

Lab Qual	Club Qual	Desc
*		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**		** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up
		range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E)
*E		(Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
B		Instrument Detection Limit but less than the Contract Required Detection Limit.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
B*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
		acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this
		analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as
B*E		explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
BE		analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BE*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
BEN		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis
BEN*		was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
BJ		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compos
BJN		(TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
BJP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
BJPX		analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
BN		The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BN*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument
		initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result
BNE		for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
BP		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The
BPX		result for this analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was
BW		outside acceptance criteria.
BX		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D		(D) (Organic) - The result for this analyte was reported from a dilutio
		(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li
DJ		(MDL) but less than the Practical Quantitaion Limit (PQL).
DNA		did not analyze due to broken equipment
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
DP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
DPX		analyte should be regarded as not detected.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E		narrative.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E*		narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
EJ		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL
EJ*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
EJN		criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN		acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN*		acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora
		Control Sample analysis was outside acceptance criteria.
H*		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
HJ		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was
HJ*		outside acceptance criteria.
		(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to
I		reported interference.
		(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla
		since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below
INS		detection limit.
J		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
J*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN		criteria.
		(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PC
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
JP		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P)
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
JPX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
JX		(Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L		(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are preser
LT		(LT) (Rad) - The result for this analyte is affected by spectral interferenc
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N		criteria.
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
P		secondary HPLC detectors were greater than 40% difference.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL)
PJ		but less than the Practical Quantitaion Limit (PQL).
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
PX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q		(Q) The result for this analyte was reported at an elevated reporting lim
R		(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI		(SI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
SQ		(SQ) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
TI		(TI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
U		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal
U*		was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
UE		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilu
		analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. *
UE*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound
UEN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH		this result was exceeded.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH*		this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI		(UI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identificatio
UJ		(UJ) (Organic) Legacy CST lab code should not be used
		UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th
UL		symbol without the laboratory assigning a U lab code.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
UN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory
UN*		Replicate analysis was outside acceptance criteria.
UUI		(UUI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest
UW		spike sample was outside acceptance criteria.
UY2		(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferenc
W		(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank
XB		and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Fld Prep Code	Anyl Meth Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	Am-241	F	HASL-300:AM-241	<	-0.004	pCi/L	0.01	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Am-241	UF	HASL-300:AM-241	<	-0.001	pCi/L	0.01	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Co-60	UF	EPA:901.1	<	-0.295	pCi/L	1.1	3.6	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Co-60	F	EPA:901.1	<	0.077	pCi/L	1.1	3.6	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Cs-137	UF	EPA:901.1	<	1.88	pCi/L	1.3	4.9	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Cs-137	F	EPA:901.1	<	0.067	pCi/L	1.1	3.7	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSA	UF	EPA:900		4.67	pCi/L	1.3	3.3				15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSA	F	EPA:900	<	2.25	pCi/L	0.85	1.9		U	R11	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSB	UF	EPA:900		20.8	pCi/L	2.3	2.9				50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSB	F	EPA:900		4.87	pCi/L	1.1	2.7				50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSG	F	EPA:901.1	<	11.4	pCi/L	23	49	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	GROSSG	UF	EPA:901.1	<	38.7	pCi/L	44	69	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	H-3	UF	Low_Level_Tritium		19.16	pCi/L	0.64	0.29				20000	EPA PRIM DW LVL	UMTL
Rio Grande at Otowi Bridge	09/29/08	K-40	F	EPA:901.1	<	14.5	pCi/L	19	63	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	K-40	UF	EPA:901.1	<	23.2	pCi/L	20	76	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Na-22	F	EPA:901.1	<	-0.595	pCi/L	1.3	4.2	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Na-22	UF	EPA:901.1	<	0.515	pCi/L	1.5	5.1	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Np-237	F	EPA:901.1	<	-31.4	pCi/L	11	31	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Np-237	UF	EPA:901.1	<	14.9	pCi/L	9.7	32	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Pu-238	F	HASL-300:ISOPU	<	-0.007	pCi/L	0.004	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Pu-238	UF	HASL-300:ISOPU	<	-0.002	pCi/L	0.005	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Pu-239/240	UF	HASL-300:ISOPU	<	-0.004	pCi/L	0.004	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Pu-239/240	F	HASL-300:ISOPU	<	0	pCi/L	0.003	0.04	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Ra-226	UF	EPA:903.1	<	0.545	pCi/L	0.21	0.59	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Ra-226	F	EPA:903.1	<	0	pCi/L	0.16	0.64	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Ra-228	F	EPA:904	<	0.302	pCi/L	0.18	0.59	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Ra-228	UF	EPA:904		1.0	pCi/L	0.31	0.82				5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Sr-90	UF	EPA:905.0	<	-0.081	pCi/L	0.14	0.48	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Sr-90	F	EPA:905.0	<	0.282	pCi/L	0.13	0.41	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	Th-228	F	HASL-300:ISOTH	<	0.034	pCi/L	0.01	0.11	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Th-228	UF	HASL-300:ISOTH		0.109	pCi/L	0.02	0.09						GELC
Rio Grande at Otowi Bridge	09/29/08	Th-230	F	HASL-300:ISOTH	<	0.052	pCi/L	0.01	0.10	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	Th-230	UF	HASL-300:ISOTH		0.118	pCi/L	0.02	0.08						GELC
Rio Grande at Otowi Bridge	09/29/08	Th-232	UF	HASL-300:ISOTH		0.113	pCi/L	0.02	0.03						GELC
Rio Grande at Otowi Bridge	09/29/08	Th-232	F	HASL-300:ISOTH	<	0.004	pCi/L	0.01	0.04	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	U-234	F	HASL-300:ISOU		0.822	pCi/L	0.06	0.07						GELC
Rio Grande at Otowi Bridge	09/29/08	U-234	UF	HASL-300:ISOU		0.762	pCi/L	0.06	0.06						GELC
Rio Grande at Otowi Bridge	09/29/08	U-235/236	UF	HASL-300:ISOU	<	0.031	pCi/L	0.01	0.03	U	U	R5			GELC
Rio Grande at Otowi Bridge	09/29/08	U-235/236	F	HASL-300:ISOU		0.041	pCi/L	0.01	0.04						GELC
Rio Grande at Otowi Bridge	09/29/08	U-238	UF	HASL-300:ISOU		0.514	pCi/L	0.04	0.04						GELC
Rio Grande at Otowi Bridge	09/29/08	U-238	F	HASL-300:ISOU		0.508	pCi/L	0.04	0.04						GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	67-64-1	Acetone	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-05-8	Acetonitrile	SW-846:8260B	LF	<	25	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	107-02-8	Acrolein	SW-846:8260B	LF	<	5	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	107-13-1	Acrylonitrile	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	71-43-2	Benzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-86-1	Bromobenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	74-97-5	Bromochloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-27-4	Bromodichloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-25-2	Bromoform	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	74-83-9	Bromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	71-36-3	Butanol[1-]	SW-846:8260B	LF	<	50	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	78-93-3	Butanone[2-]	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-15-0	Carbon Disulfide	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-90-7	Chlorobenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	124-48-1	Chlorodibromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-00-3	Chloroethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	67-66-3	Chloroform	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	74-87-3	Chloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	74-95-3	Dibromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	60-29-7	Diethyl Ether	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	LF	<	50	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	100-41-4	Ethylbenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	591-78-6	Hexanone[2-]	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c		GELZ
Rio Grande at Otowi Bridge	07/30/08	74-88-4	Iodomethane	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	78-83-1	Isobutyl alcohol	SW-846:8260B	LF	<	50	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	98-82-8	Isopropylbenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	126-98-7	Methacrylonitrile	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c		GELZ
Rio Grande at Otowi Bridge	07/30/08	80-62-6	Methyl Methacrylate	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-09-2	Methylene Chloride	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	91-20-3	Naphthalene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	107-12-0	Propionitrile	SW-846:8260B	LF	<	5	ug/L	U	R	V7b		GELZ
Rio Grande at Otowi Bridge	07/30/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	100-42-5	Styrene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	127-18-4	Tetrachloroethene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-88-3	Toluene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	79-01-6	Trichloroethene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	LF	<	1	ug/L	U	UJ	V7c		GELZ
Rio Grande at Otowi Bridge	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	75-01-4	Vinyl Chloride	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	108-05-4	Vinyl acetate	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	95-47-6	Xylene[1,2-]	SW-846:8260B	LF	<	2	ug/L	U	U	U_LAB		GELZ
Rio Grande at Otowi Bridge	07/30/08	Xylene(1,3 & 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	LF	<	2	ug/L	U	U	U_LAB		GELZ

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	67-64-1	Acetone	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-05-8	Acetonitrile	SW-846:8260B	LF	<	25	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	107-02-8	Acrolein	SW-846:8260B	LF	<	5	ug/L	U	R	V7b	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	107-13-1	Acrylonitrile	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	71-43-2	Benzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-86-1	Bromobenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	74-97-5	Bromochloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-27-4	Bromodichloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-25-2	Bromoform	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	74-83-9	Bromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	71-36-3	Butanol[1-]	SW-846:8260B	LF	<	50	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	78-93-3	Butanone[2-]	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-15-0	Carbon Disulfide	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-90-7	Chlorobenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	124-48-1	Chlorodibromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-00-3	Chloroethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	67-66-3	Chloroform	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	74-87-3	Chloromethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	74-95-3	Dibromomethane	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	LF	<	1	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	60-29-7	Diethyl Ether	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	LF	<	50	ug/L	U	R	V7b	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	100-41-4	Ethylbenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	591-78-6	Hexanone[2-]	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	74-88-4	Iodomethane	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	78-83-1	Isobutyl alcohol	SW-846:8260B	LF	<	50	ug/L	U	R	V7b	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	98-82-8	Isopropylbenzene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	126-98-7	Methacrylonitrile	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	80-62-6	Methyl Methacrylate	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	LF	<	5	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-09-2	Methylene Chloride	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	91-20-3	Naphthalene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	107-12-0	Propionitrile	SW-846:8260B	LF	<	5	ug/L	U	R	V7b	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	100-42-5	Styrene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	127-18-4	Tetrachloroethene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-88-3	Toluene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	79-01-6	Trichloroethene	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	LF	<	1	ug/L	U	UJ	V7c	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	75-01-4	Vinyl Chloride	SW-846:8260B	LF	<	1	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	108-05-4	Vinyl acetate	SW-846:8260B	LF	<	5	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	95-47-6	Xylene[1,2-]	SW-846:8260B	LF	<	2	ug/L	U	U	U_LAB	FTB	GELZ
Rio Grande at Otowi Bridge	09/29/08	Xylene(1,3 and 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	LF	<	2	ug/L	U	U	U_LAB	FTB	GELZ

Table 3.0
Rio Grande at Otowi Bridge
Semi-volatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	62-53-3	Aniline	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	120-12-7	Anthracene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV7b	GELC
Rio Grande at Otowi Bridge	09/29/08	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	92-87-5	Benzidine	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.03	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.6	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	218-01-9	Chrysene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.03	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.6	ug/L	U	R	SV3	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Rio Grande at Otowi Bridge	09/29/08	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	86-73-7	Fluorene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.03	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	78-59-1	Isophorone	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7a	GELC
Rio Grande at Otowi Bridge	09/29/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/29/08	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	108-95-2	Phenol	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	129-00-0	Pyrene	SW-846:8270C	UF	<	1.03	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	110-86-1	Pyridine	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/29/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC
Rio Grande at Otowi Bridge	09/29/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.3	ug/L	U	R	SV3	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Fld Prep Code	Analyte	Analyte Desc	Anyl Meth Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	F	12674-11-2	Aroclor-1016	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	12674-11-2	Aroclor-1016	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	11104-28-2	Aroclor-1221	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	11104-28-2	Aroclor-1221	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	11141-16-5	Aroclor-1232	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	11141-16-5	Aroclor-1232	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	53469-21-9	Aroclor-1242	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	53469-21-9	Aroclor-1242	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	12672-29-6	Aroclor-1248	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	12672-29-6	Aroclor-1248	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	11097-69-1	Aroclor-1254	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	11097-69-1	Aroclor-1254	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	11096-82-5	Aroclor-1260	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	11096-82-5	Aroclor-1260	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	F	37324-23-5	Aroclor-1262	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	09/29/08	UF	37324-23-5	Aroclor-1262	SW-846:8082	<	0.1	ug/L	0.033	U	U	U_LAB		GELC

Location Name	Start Date	Fld Prep Code	Analyte	Analyte Desc	Anyl Meth Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	F	1336-36-3	Total PCB	EPA:1668A	<	0.0000646	ug/L	0.0000576	B	U	CB4d		ALTC
Rio Grande at Otowi Bridge	09/29/08	UF	1336-36-3	Total PCB	EPA:1668A		0.0013600	ug/L	0.0000521	B				ALTC
Rio Grande at Otowi Bridge	09/29/08	UF	1336-36-3	Total PCB	EPA:1668A		0.0002400	ug/L	0.0000547	B			FB	ALTC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Fld Prep Code	Analyte	Analyte Desc	Anyl Meth Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	UF	309-00-2	Aldrin	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	319-84-6	BHC[alpha-]	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	319-85-7	BHC[beta-]	SW-846:8081A	<	0.02	ug/L	0.0085	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	319-86-8	BHC[delta-]	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	58-89-9	BHC[gamma-]	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	5103-71-9	Chlordane[alpha-]	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	5103-74-2	Chlordane[gamma-]	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	72-54-8	DDD[4,4'-]	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	72-55-9	DDE[4,4'-]	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	50-29-3	DDT[4,4'-]	SW-846:8081A	<	0.04	ug/L	0.01	U	UJ	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	60-57-1	Dieldrin	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	959-98-8	Endosulfan I	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	33213-65-9	Endosulfan II	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	1031-07-8	Endosulfan Sulfate	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	72-20-8	Endrin	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	7421-93-4	Endrin Aldehyde	SW-846:8081A	<	0.04	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	53494-70-5	Endrin Ketone	SW-846:8081A	<	0.04	ug/L	0.013	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	76-44-8	Heptachlor	SW-846:8081A	<	0.02	ug/L	0.0066	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	1024-57-3	Heptachlor Epoxide	SW-846:8081A	<	0.02	ug/L	0.005	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	<	0.2	ug/L	0.05	U	U	GELC
Rio Grande at Otowi Bridge	09/29/08	UF	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	<	0.5	ug/L	0.15	U	U	GELC

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	ALK-CO3	EPA:310.1	UF	<	1.0	mg/L	0.73	U	U			GELC
Rio Grande at Otowi Bridge	09/29/08	ALK-CO3+HCO3	EPA:310.1	UF		93.7	mg/L	0.73					GELC
Rio Grande at Otowi Bridge	09/29/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.067	U	U			GELC
Rio Grande at Otowi Bridge	09/29/08	Ca	SW-846:6010B	F		31	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	09/29/08	Ca	SW-846:6010B	UF		33.5	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	09/29/08	Cl(-1)	EPA:300.0	UF		3.38	mg/L	0.066			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	ClO4	SW-846:6850	UF		0.061	ug/L	0.05	J	J			GELC
Rio Grande at Otowi Bridge	09/29/08	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.002	U	U	0.2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	DO	Generic Field Measurement	UF		8.77	mg/L						FLD
Rio Grande at Otowi Bridge	09/29/08	F(-1)	EPA:300.0	UF		0.28	mg/L	0.033			4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	HARDNESS	SM:A2340B	UF		114	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	09/29/08	HARDNESS	SM:A2340B	F		101	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	09/29/08	K	SW-846:6010B	UF		3.72	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	09/29/08	K	SW-846:6010B	F		2.15	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	09/29/08	Mg	SW-846:6010B	F		5.82	mg/L	0.085					GELC
Rio Grande at Otowi Bridge	09/29/08	Mg	SW-846:6010B	UF		7.34	mg/L	0.085					GELC
Rio Grande at Otowi Bridge	09/29/08	Na	SW-846:6010B	UF		13.3	mg/L	0.045					GELC
Rio Grande at Otowi Bridge	09/29/08	Na	SW-846:6010B	F		13.2	mg/L	0.045					GELC
Rio Grande at Otowi Bridge	09/29/08	NH3-N	EPA:350.1	UF		0.186	mg/L	0.06		J-			GELC
Rio Grande at Otowi Bridge	09/29/08	NO3+NO2-N	EPA:353.2	UF	<	0.106	mg/L	0.05	J	U	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	pH	EPA:150.1	UF		8.37	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	pH	GENERIC FIELD PH	UF		7.63	SU				6.5-8.5	EPA SEC DW LVL	FLD
Rio Grande at Otowi Bridge	09/29/08	PO4-P	EPA:365.4	UF		0.129	mg/L	0.024		J+			GELC
Rio Grande at Otowi Bridge	09/29/08	SO4(-2)	EPA:300.0	UF		37.8	mg/L	0.1			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		273	uS/cm						FLD
Rio Grande at Otowi Bridge	09/29/08	SPEC_CONDC	EPA:120.1	UF		269	uS/cm	1					GELC
Rio Grande at Otowi Bridge	09/29/08	SSC	EPA:160.2	UF		73.6	mg/L	2.3					GELC
Rio Grande at Otowi Bridge	09/29/08	TDS	EPA:160.1	UF		198	mg/L	2.4			500	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	09/29/08	TEMP	GENERIC FIELD TEMP	UF		25	deg C						FLD
Rio Grande at Otowi Bridge	09/29/08	TKN	EPA:351.2	UF	<	0.1	mg/L	0.029	U	U			GELC
Rio Grande at Otowi Bridge	09/29/08	TOC	SW-846:9060	UF		3.98	mg/L	0.33					GELC
Rio Grande at Otowi Bridge	09/29/08	TURB	GENERIC FIELD TURB	UF		109	NTU						FLD

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Lab Code
Rio Grande at Otowi Bridge	09/29/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Al	SW-846:6010B	F	<	200	ug/L	68	UN	UJ	200	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Al	SW-846:6010B	UF		5960	ug/L	68	N	J+	200	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	As	SW-846:6020	F		1.7	ug/L	1.5	J	J	10	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	As	SW-846:6020	UF		2.3	ug/L	1.5	J	J	10	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	B	SW-846:6010B	F		13.3	ug/L	10	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	B	SW-846:6010B	UF		20.7	ug/L	10	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Ba	SW-846:6010B	F		55.1	ug/L	1			2000	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Ba	SW-846:6010B	UF		92.6	ug/L	1			2000	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Co	SW-846:6010B	UF		1.1	ug/L	1	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cr	SW-846:6020	UF	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Cu	SW-846:6010B	UF		3.3	ug/L	3	J	J	1300	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Fe	SW-846:6010B	UF		4250	ug/L	25			300	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Mn	SW-846:6010B	F		2.4	ug/L	2	J	J	50	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Mn	SW-846:6010B	UF		100	ug/L	2			50	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Mo	SW-846:6020	F		4	ug/L	0.1					CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Mo	SW-846:6020	UF		3.4	ug/L	0.1					CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Ni	SW-846:6020	F		1.1	ug/L	0.5	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Ni	SW-846:6020	UF		1.7	ug/L	0.5	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Pb	SW-846:6020	UF		1.3	ug/L	0.5	J	J	15	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	SiO2	SW-846:6010B	UF		45.2	mg/L	0.032					CS	GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Sample Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	09/29/08	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Sr	SW-846:6010B	F		248	ug/L	1					CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Sr	SW-846:6010B	UF		267	ug/L	1					CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	2	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Tl	SW-846:6020	UF		0.49	ug/L	0.3	J	J	2	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	U	SW-846:6020	F		1.5	ug/L	0.05			30	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	U	SW-846:6020	UF		1.5	ug/L	0.05			30	EPA PRIM DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	V	SW-846:6010B	F		3.1	ug/L	1	J	J			CS	GELC
Rio Grande at Otowi Bridge	09/29/08	V	SW-846:6010B	UF		14.1	ug/L	1					CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Zn	SW-846:6010B	F		2.9	ug/L	2	J	J	5000	EPA SEC DW LVL	CS	GELC
Rio Grande at Otowi Bridge	09/29/08	Zn	SW-846:6010B	UF		13.3	ug/L	2			5000	EPA SEC DW LVL	CS	GELC

Laboratory Report for
Los Alamos National Laboratory

Request # 08-2039

(Samples: CAWR-08)

October 16, 2008

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

October 16, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 08-2039; CAWR-08 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 08-2039; CAWR-08 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, both received in water filled 1-galon jugs, were initial heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1] (θ, ρ_d, ϕ)	Saturated Hydraulic Conductivity[2]		Moisture Characteristics[3]					Unsaturated Hydraulic Conductivity	Particle Size[4]			Effective Porosity	Particle Density	Air Permeability	1/3, 15 Bar Points and Water Holding Capacity	Atterberg Limits	Proctor Compaction
		CH	FH	HC	PP	TH	WP	RH		DS	WS	H						
CAWR-08 15564											X							
CAWR-08 15634											X							

[1] θ = Initial moisture content, ρ_d = Dry bulk density, ϕ = Calculated porosity
[2] CH = Constant head, FH = falling head
[3] HC = Hanging column, PP = Pressure plate, TH = Thermocouple psychrometer, WP = Water activity meter, RH = Relative humidity box
[4] DS = Dry sieve, WS = Wet sieve, H = Hydrometer

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08 15564	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 15634	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08 15564	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 15634	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0180.00
Sample Number: CAWR-08 15564
Ring Number: NA
Depth: NA
Test Date: 15-Oct-08

Initial Dry Weight of Sample (g): 0.39
Weight Passing #10 (g): 0.39
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.39
Calculated Weight of Sieve Sample (g): 0.39
Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.39	100.00
	2"	50	0.00	0.00	0.39	100.00
	1.5"	38.1	0.00	0.00	0.39	100.00
	1"	25	0.00	0.00	0.39	100.00
	3/4"	19.0	0.00	0.00	0.39	100.00
	3/8"	9.5	0.00	0.00	0.39	100.00
	4	4.75	0.00	0.00	0.39	100.00
	10	2.00	0.00	0.00	0.39	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.39	100.00
	40	0.425	0.00	0.00	0.39	100.00
	60	0.250	0.00	0.00	0.39	99.74
	140	0.106	0.04	0.04	0.35	90.51
	200	0.075	0.02	0.06	0.33	85.13
	dry pan		0.33	0.39	0.00	
	wet pan			0.00	0.00	

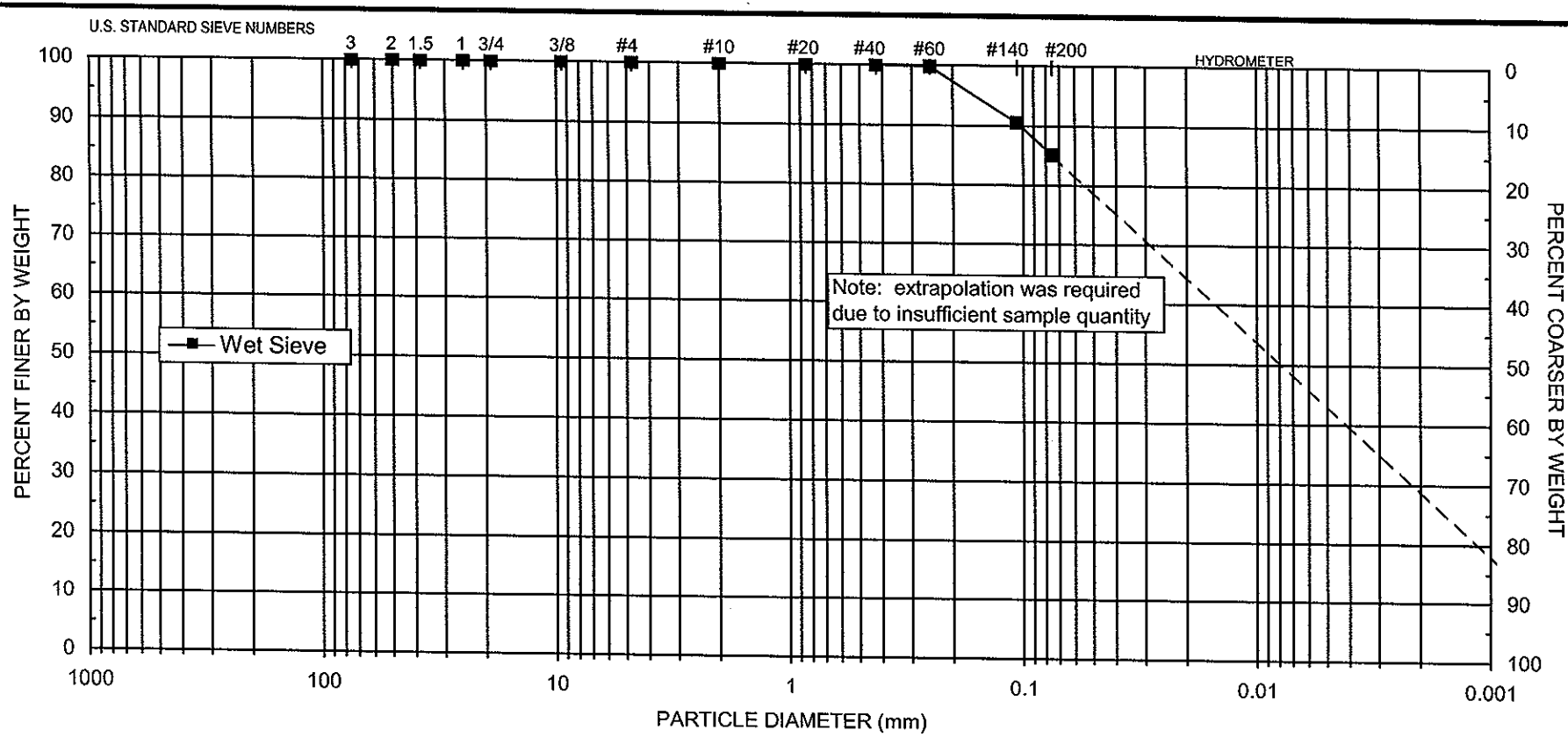
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 15564	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0180.00
Sample Number: CAWR-08 15634
Ring Number: NA
Depth: NA
Test Date: 15-Oct-08

Initial Dry Weight of Sample (g): 0.61
Weight Passing #10 (g): 0.61
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.61
Calculated Weight of Sieve Sample (g): 0.61

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.61	100.00
	2"	50	0.00	0.00	0.61	100.00
	1.5"	38.1	0.00	0.00	0.61	100.00
	1"	25	0.00	0.00	0.61	100.00
	3/4"	19.0	0.00	0.00	0.61	100.00
	3/8"	9.5	0.00	0.00	0.61	100.00
	4	4.75	0.00	0.00	0.61	100.00
	10	2.00	0.00	0.00	0.61	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.61	100.00
	40	0.425	0.00	0.00	0.61	100.00
	60	0.250	0.01	0.01	0.60	98.85
	140	0.106	0.03	0.03	0.58	94.43
	200	0.075	0.05	0.08	0.53	87.05
	dry pan		0.53	0.61	0.00	
	wet pan			0.00	0.00	

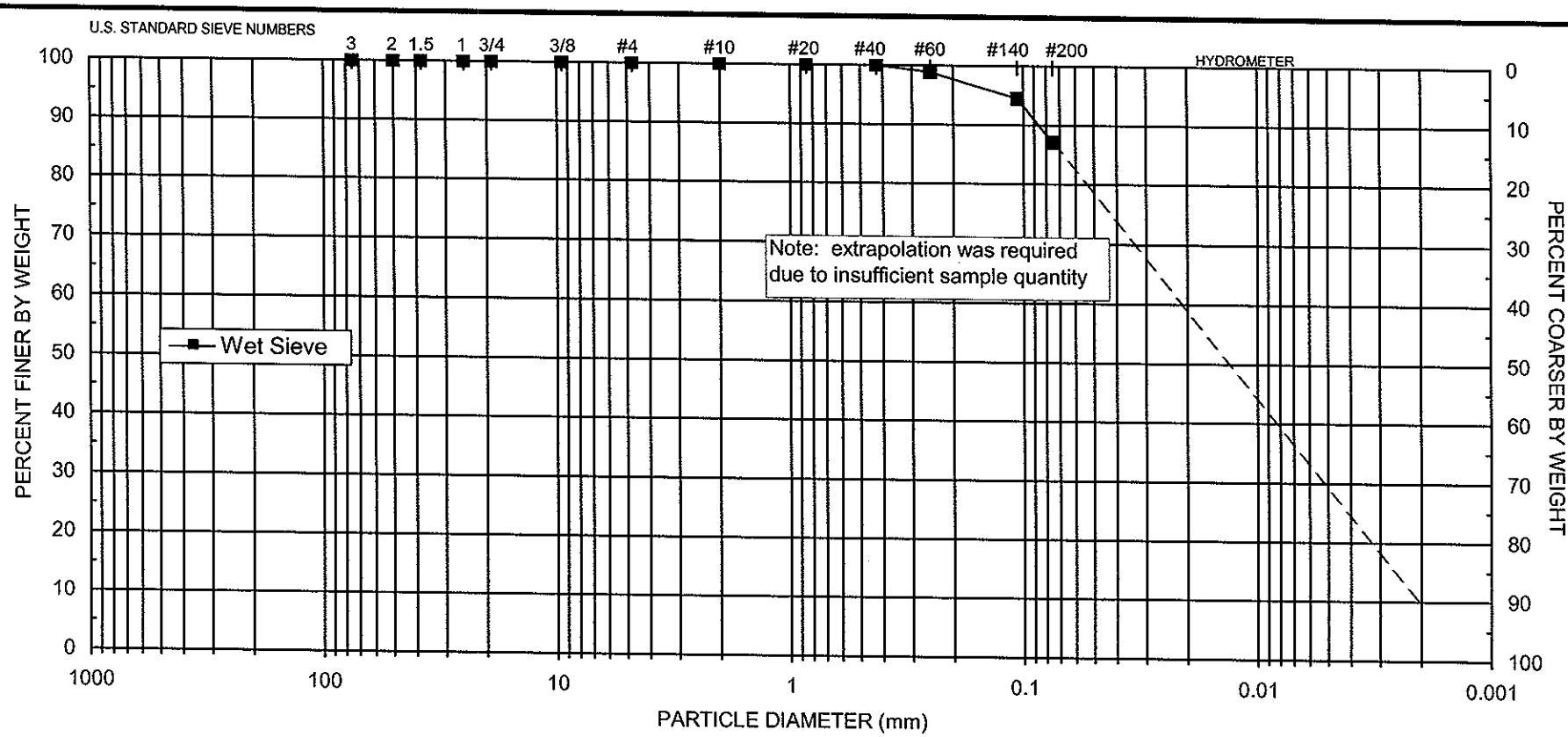
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 15634	NA	NA - See note on previous page	NA

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis:	ASTM D422

Table 55-5 Laboratory Qualification Codes

Lab Qual	Club Qual	Desc
*		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**		** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up
		range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E)
*E		(Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
B		Instrument Detection Limit but less than the Contract Required Detection Limit.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
B*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
		acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this
		analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as
B*E		explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
BE		analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BE*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
BEN		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis
BEN*		was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
BJ		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compos
BJN		(TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
BJP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
BJPX		analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
BN		The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BN*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument
		initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result
BNE		for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
BP		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The
BPX		result for this analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was
BW		outside acceptance criteria.
BX		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D		(D) (Organic) - The result for this analyte was reported from a dilutio
		(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li
DJ		(MDL) but less than the Practical Quantitaion Limit (PQL).
DNA		did not analyze due to broken equipment
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
DP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
DPX		analyte should be regarded as not detected.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E		narrative.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E*		narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
EJ		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL
EJ*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
EJN		criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN		acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN*		acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora
		Control Sample analysis was outside acceptance criteria.
H*		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
HJ		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was
HJ*		outside acceptance criteria.
		(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to
I		reported interference.
		(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla
		since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below
INS		detection limit.
J		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
J*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN		criteria.
		(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PC
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
JP		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P)
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
JPX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
JX		(Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L		(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are preser
LT		(LT) (Rad) - The result for this analyte is affected by spectral interferenc
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N		criteria.
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
P		secondary HPLC detectors were greater than 40% difference.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL)
PJ		but less than the Practical Quantitaion Limit (PQL).
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
PX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q		(Q) The result for this analyte was reported at an elevated reporting lim
R		(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI		(SI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
SQ		(SQ) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
TI		(TI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
U		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal
U*		was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
UE		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilu
		analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. *
UE*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound
UEN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH		this result was exceeded.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH*		this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI		(UI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identificatio
UJ		(UJ) (Organic) Legacy CST lab code should not be used
		UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th
UL		symbol without the laboratory assigning a U lab code.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
UN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory
UN*		Replicate analysis was outside acceptance criteria.
UUI		(UUI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest
UW		spike sample was outside acceptance criteria.
UY2		(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferenc
W		(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank
XB		and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Table S5-6.

Valid Flag C
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Table 36. Transaction Validation Status Codes

Code	Name
0	NOT_VALIDATED
1	VALIDATION_SUCCESS
2	VALIDATION_FAILED
3	UNKNOWN_CHAINCODE
4	EXPIRED_CHAINCODE
5	RESOURCE_NOT_FOUND
6	PHANTOM_READ_CONFLICT
7	ENDORSEMENT_POLICY_FAILURE
8	MVCC_READ_CONFLICT
9	PRIOR_TXN_COMMITTING
10	INVALID_OTHER_REASON
11	NIL_TXACTION
12	INCORRECT_NUMBER_OF_ACTIONS
13	ACTIONS_AUTH_FAILED
14	CONFLICT_IN_TXACTION
15	INCORRECT_ENTRIES_IN_TXACTION
16	PRUNED_TXACTION
17	EMPTY_TXACTION
18	INVALID_ENDORSER_TRANSACTION
19	INVALID_CONFIGURATION
20	CONFLICTING_DEPLOYMENT
21	INVALID_CONFIG_TRANSACTION
22	INSUFFICIENT_PARTICIPANTS
23	TOO_MANY_KNOWN_COLLECTIONS
24	INVALID_SYSTEM_CHAINCODE
25	INVALID_CHAINCODE
26	INVALID_PROPOSAL
27	INVALID_HOMOMORPHIC_PROOF
28	INVALID_MRSHLDATA
29	INVALID_PVTDATA
30	PAST_THE_TIME_WINDOW
31	INVALID_ORDERER_TRANSACTION
32	INVALID_ORDERER_TYPE
33	INVALID_ORDERER_ADDRESS
34	INVALID_ORDERER_TLS_CERT
35	INVALID_ORDERER_MSP
36	INVALID_ORDERER_POLICY
37	INVALID_ORDERER_BATCH_SIZE
38	INVALID_ORDERER_BATCH_TIMEOUT
39	INVALID_ORDERER_CONSENSUS_TYPE
40	INVALID_ORDERER_CONSENSUS_METADATA
41	INVALID_ORDERER_CONSENSUS_STATE
42	INVALID_ORDERER_CHANNEL_CAPABILITIES
43	INVALID_ORDERER_ORGANIZATION_CAPABILITIES
44	INVALID_ORDERER_ENDPOINT
45	INVALID_ORDERER_ORGANIZATION_NAME
46	INVALID_ORDERER_ORGANIZATION_POLICY
47	INVALID_ORDERER_ORGANIZATION_MSP
48	INVALID_CONSORTIUM
49	INVALID_CONSORTIUM_NAME
50	INVALID_CONSORTIUM_ORG
51	INVALID_CONSORTIUM_ORG_POLICY
52	INVALID_CONSORTIUM_ORG_MSP
53	INVALID_CHANNEL_CONSORTIUM
54	INVALID_CHANNEL_CAPABILITIES
55	INVALID_CHANNEL_HASHING_ALGORITHM
56	INVALID_CHANNEL_BLOCKDATA_HASHING_STRUCTURE
57	INVALID_CHANNEL_ORDERER
58	INVALID_CHANNEL_ORDERER_ADDRESSES
59	INVALID_CHANNEL_ORDERER_TLS_CERTS
60	INVALID_CHANNEL_ORDERER_ORG
61	INVALID_CHANNEL_ORDERER_ORG_POLICY
62	INVALID_CHANNEL_ORDERER_ORG_MSP
63	INVALID_CHANNEL_APPLICATION
64	INVALID_CHANNEL_APPLICATION_ORG
65	INVALID_CHANNEL_APPLICATION_ORG_POLICY
66	INVALID_CHANNEL_APPLICATION_ORG_MSP
67	INVALID_ENDPOINT_OVERRIDE
68	INVALID_KEY_ROLE
69	INVALID_VALUE
70	DISALLOWED_KEY_MODIFICATION
71	INVALID_MAX_CHANNEL_HEIGHT
72	COMMITTER_LEDGER_HEIGHT_MISMATCH
73	INVALID_ORDERER_CONNECTION
74	INVALID_ORDERER_CONFIG
75	INVALID_ORDERER_TENANT
76	INVALID_ONBOARDING
77	SERVICE_UNAVAILABLE
78	RESOURCE_EXHAUSTED
79	RECONFIGURATION_IN_PROGRESS
80	INVALID_ORDERER_INACTIVE
81	INVALID_ORDERER_CLUSTER_CONSENSUS
82	INVALID_ORDERER_CLUSTER_ADMIN
83	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT
84	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_EXPIRED
85	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ADMIN
86	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_CLIENT
87	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_SERVER
88	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_SAN_MATCH
89	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_CA
90	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_REVOKED
91	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_UNKNOWN_ISSUER
92	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_INVALID_CHAIN
93	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_INVALID_OTHER_REASON
94	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_IN_USE
95	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_SELF
96	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_OTHERS
97	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN
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210	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
211	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
212	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
213	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
214	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
215	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
216	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
217	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
218	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
219	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
220	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
221	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
222	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
223	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
224	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
225	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
226	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
227	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
228	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
229	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
230	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
231	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
232	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
233	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
234	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
235	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
236	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
237	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
238	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
239	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
240	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
241	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
242	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
243	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
244	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
245	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
246	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
247	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_CONSENTER_IN_CONSENSUS_STATE
248	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_IN_CONSENSUS_STATE
249	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_CONSENTER_IN_CONSENSUS_STATE
250	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_LAST_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
251	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_AND_CONSENTER_IN_CONSENSUS_STATE
252	INVALID_ORDERER_CLUSTER_ADMIN_TLS_CERT_NOT_ALLOWED_TO_REMOVE_ADMIN_IN_CONSENSUS_STATE
253	INVALID_ORDERER_CL

PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60!
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repc
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60!
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the M
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MD
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analy
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDA
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repc
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for us
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the porential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceedi
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60!
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repc
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60!
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary w included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60!
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repc
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60!
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match libra
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremer
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hiç
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lc
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PC
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missinç
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamec
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamec
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPs	ORGANIC_OPs
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysis
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affeceed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RCSTP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12c
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Buckman Diversion SW	12/01/08	Am-241	HASL-300:AM-241	F	<	-0.0003	pCi/L	0.009	0.024	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Am-241	HASL-300:AM-241	UF	<	-0.0086	pCi/L	0.007	0.023	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Co-60	EPA:901.1	F	<	0.246	pCi/L	1.4	4.6	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Co-60	EPA:901.1	UF	<	-1.05	pCi/L	1.6	4.7	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Cs-137	EPA:901.1	F	<	0.329	pCi/L	1.6	4.7	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Cs-137	EPA:901.1	UF	<	1.03	pCi/L	1.3	4.4	U	U	R5			GELC
Buckman Diversion SW	12/01/08	GROSSA	EPA:900	F		3.94	pCi/L	1.1	2.1				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	GROSSA	EPA:900	UF		5.60	pCi/L	1.4	2.9				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	GROSSB	EPA:900	F	<	1.90	pCi/L	0.8	2.6	U	U	R5	50	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	GROSSB	EPA:900	UF		3.81	pCi/L	0.9	2.4				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	GROSSG	EPA:901.1	F	<	13.1	pCi/L	14	32	U	U	R5			GELC
Buckman Diversion SW	12/01/08	GROSSG	EPA:901.1	UF	<	11.0	pCi/L	25	34	U	U	R5			GELC
Buckman Diversion SW	12/01/08	H-3	Generic:Low_Level_Tritium	UF		14.3	pCi/L	0.479	0.287				20,000	EPA PRIM DW LVL	UMTL
Buckman Diversion SW	12/01/08	K-40	EPA:901.1	F	<	13.9	pCi/L	15	53	U	U	R5			GELC
Buckman Diversion SW	12/01/08	K-40	EPA:901.1	UF	<	-0.962	pCi/L	19	64	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Na-22	EPA:901.1	F	<	-1.72	pCi/L	1.5	4.3	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Na-22	EPA:901.1	UF	<	-0.476	pCi/L	1.4	4.2	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Np-237	EPA:901.1	F	<	-4.42	pCi/L	6.3	21	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Np-237	EPA:901.1	UF	<	-13.5	pCi/L	11.0	36	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Pu-238	HASL-300:ISOPU	F	<	0.0000	pCi/L	0.007	0.026	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Pu-238	HASL-300:ISOPU	UF	<	0.0053	pCi/L	0.004	0.022	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Pu-239/240	HASL-300:ISOPU	F	<	-0.0021	pCi/L	0.004	0.033	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Pu-239/240	HASL-300:ISOPU	UF	<	-0.0035	pCi/L	0.004	0.028	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Ra-226	EPA:903.1	F	<	0.234	pCi/L	0.11	0.31	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Ra-226	EPA:903.1	UF	<	0.146	pCi/L	0.10	0.34	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Ra-228	EPA:904	F	<	0.485	pCi/L	0.23	0.71	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Ra-228	EPA:904	UF	<	0.174	pCi/L	0.15	0.52	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Sr-90	EPA:905.0	F	<	0.041	pCi/L	0.09	0.29	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Sr-90	EPA:905.0	UF	<	-0.173	pCi/L	0.09	0.30	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Th-228	HASL-300:ISOTH	F	<	0.079	pCi/L	0.02	0.13	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Th-228	HASL-300:ISOTH	UF	<	0.091	pCi/L	0.03	0.14	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Th-230	HASL-300:ISOTH	F	<	0.021	pCi/L	0.01	0.12	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Th-230	HASL-300:ISOTH	UF	<	0.050	pCi/L	0.01	0.13	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Th-232	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.01	0.05	U	U	R5			GELC
Buckman Diversion SW	12/01/08	Th-232	HASL-300:ISOTH	UF	<	0.020	pCi/L	0.01	0.05	U	U	R5			GELC
Buckman Diversion SW	12/01/08	U-234	HASL-300:ISOU	F		1.88	pCi/L	0.18	0.20						GELC
Buckman Diversion SW	12/01/08	U-234	HASL-300:ISOU	UF		1.93	pCi/L	0.19	0.20						GELC
Buckman Diversion SW	12/01/08	U-235/236	HASL-300:ISOU	F	<	0.000	pCi/L	0.02	0.11	U	U	R5			GELC
Buckman Diversion SW	12/01/08	U-235/236	HASL-300:ISOU	UF	<	0.029	pCi/L	0.02	0.10	U	U	R5			GELC
Buckman Diversion SW	12/01/08	U-238	HASL-300:ISOU	F		1.13	pCi/L	0.12	0.13						GELC
Buckman Diversion SW	12/01/08	U-238	HASL-300:ISOU	UF		1.25	pCi/L	0.13	0.12						GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	12/01/08	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V7b		GELC
Buckman Diversion SW	12/01/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Buckman Diversion SW	12/01/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anal Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	12/01/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Buckman Diversion SW	12/01/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	12/01/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Buckman Diversion SW	12/01/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	107-12-0	Propanonitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b		GELC
Buckman Diversion SW	12/01/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anal Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	12/01/08	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	12/01/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	12/01/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anal Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	12/01/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	12/01/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	12/01/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	12/01/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	107-12-0	Propanonitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	12/01/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	12/01/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	12/01/08	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	62-53-3	Aniline	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	120-12-7	Anthracene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	1912-24-9	Atrazine	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	103-33-3	Azobenzene	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	92-87-5	Benzidine	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	23.8	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7a	GELC
Buckman Diversion SW	12/01/08	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	218-01-9	Chrysene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	23.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	1-Dec-08	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Buckman Diversion SW	12/01/08	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	88-85-7	Dinoseb	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	122-39-4	Diphenylamine	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	86-73-7	Fluorene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	78-59-1	Isophorone	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	11.9	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	12/01/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	108-95-2	Phenol	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	129-00-0	Pyrene	SW-846:8270C	UF	<	1.19	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	110-86-1	Pyridine	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	11.9	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	12/01/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.222	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	12/01/08	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.556	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	12/01/08	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC
Buckman Diversion SW	12/01/08	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.115	ug/L	0.038	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	12/01/08	1336-36-3	Total PCB	EPA:1668A	UF		0.000363	ug/L	0.000062				PEB	ALTC
Buckman Diversion SW	12/01/08	1336-36-3	Total PCB	EPA:1668A	UF	<	0.000011	ug/L	0.000053		U	CB4d		ALTC

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	12/01/08	ALK-CO3	EPA:310.1	UF		4.24	mg/L	0.73					GELC
Buckman Diversion SW	12/01/08	ALK-CO3+HCO3	EPA:310.1	UF		125	mg/L	0.73					GELC
Buckman Diversion SW	12/01/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.067	U	U			GELC
Buckman Diversion SW	12/01/08	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.002	U	UJ	0.2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Ca	SW-846:6010B	F		37.1	mg/L	0.03					GELC
Buckman Diversion SW	12/01/08	Ca	SW-846:6010B	UF		39.2	mg/L	0.03					GELC
Buckman Diversion SW	12/01/08	Cl(-1)	EPA:300.0	UF		7	mg/L	0.066			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	ClO4	SW-846:6850	UF		0.11	ug/L	0.05	J	J			GELC
Buckman Diversion SW	12/01/08	DO	Generic Field Measurement	UF		10.1	mg/L						FLD
Buckman Diversion SW	12/01/08	F(-1)	EPA:300.0	UF		0.51	mg/L	0.033			4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	HARDNESS	SM:A2340B	F		121	mg/L	0.35					GELC
Buckman Diversion SW	12/01/08	HARDNESS	SM:A2340B	UF		129	mg/L	0.35					GELC
Buckman Diversion SW	12/01/08	K	SW-846:6010B	F		2.5	mg/L	0.05					GELC
Buckman Diversion SW	12/01/08	K	SW-846:6010B	UF		2.8	mg/L	0.05					GELC
Buckman Diversion SW	12/01/08	Mg	SW-846:6010B	F		7.0	mg/L	0.085					GELC
Buckman Diversion SW	12/01/08	Mg	SW-846:6010B	UF		7.6	mg/L	0.085					GELC
Buckman Diversion SW	12/01/08	NH3-N	EPA:350.1	UF		0.03	mg/L	0.03	J	J-			GELC
Buckman Diversion SW	12/01/08	NO3+NO2-N	EPA:353.2	UF		0.16	mg/L	0.05	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Na	SW-846:6010B	F		20.7	mg/L	0.045					GELC
Buckman Diversion SW	12/01/08	Na	SW-846:6010B	UF		21.5	mg/L	0.045					GELC
Buckman Diversion SW	12/01/08	ORP	Generic Field Measurement	UF		520	mV						FLD
Buckman Diversion SW	12/01/08	PO4-P	EPA:365.4	UF		0.081	mg/L	0.02					GELC
Buckman Diversion SW	12/01/08	SO4(-2)	EPA:300.0	UF		37.2	mg/L	0.1			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	SPEC_CONDC	EPA:120.1	UF		337	uS/cm	1.0					GELC
Buckman Diversion SW	12/01/08	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		329	uS/cm						FLD
Buckman Diversion SW	12/01/08	SSC	EPA:160.2	UF		16.4	mg/L	2.3					GELC
Buckman Diversion SW	12/01/08	TDS	EPA:160.1	UF		218	mg/L	2.4			500	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	TEMP	GENERIC FIELD TEMP	UF		17.8	deg C						FLD
Buckman Diversion SW	12/01/08	TURB	GENERIC FIELD TURB	UF		19.1	NTU						FLD
Buckman Diversion SW	12/01/08	pH	GENERIC FIELD PH	UF		7	SU				6.5-8.5	EPA SEC DW LVL	FLD
Buckman Diversion SW	12/01/08	pH	EPA:150.1	UF		8.57	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	12/01/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	200	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Al	SW-846:6010B	UF		911	ug/L	68			200	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	As	SW-846:6020	F		2.3	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	As	SW-846:6020	UF		1.5	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	B	SW-846:6010B	F		42.3	ug/L	10	J	J			GELC
Buckman Diversion SW	12/01/08	B	SW-846:6010B	UF		45.6	ug/L	10	J	J			GELC
Buckman Diversion SW	12/01/08	Ba	SW-846:6010B	F		55.3	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Ba	SW-846:6010B	UF		65.4	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			GELC
Buckman Diversion SW	12/01/08	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U			GELC
Buckman Diversion SW	12/01/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Cr	SW-846:6020	UF	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Fe	SW-846:6010B	UF		629	ug/L	25			300	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Mn	SW-846:6010B	F		15.0	ug/L	2			50	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Mn	SW-846:6010B	UF		44.4	ug/L	2			50	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Mo	SW-846:6020	F		6.3	ug/L	0.1					GELC
Buckman Diversion SW	12/01/08	Mo	SW-846:6020	UF		6.4	ug/L	0.1					GELC
Buckman Diversion SW	12/01/08	Ni	SW-846:6020	F		1.7	ug/L	0.5	J	J			GELC
Buckman Diversion SW	12/01/08	Ni	SW-846:6020	UF		2.4	ug/L	0.5					GELC
Buckman Diversion SW	12/01/08	Pb	SW-846:6020	F	<	2.0	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Pb	SW-846:6020	UF		0.6	ug/L	0.5	J	J	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Buckman Diversion SW	12/01/08	SiO2	SW-846:6010B	UF		25.1	mg/L	0.032					GELC
Buckman Diversion SW	12/01/08	Sn	SW-846:6010B	F	<	10	ug/L	2.50	U	U			GELC
Buckman Diversion SW	12/01/08	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U			GELC
Buckman Diversion SW	12/01/08	Sr	SW-846:6010B	F		281	ug/L	1					GELC
Buckman Diversion SW	12/01/08	Sr	SW-846:6010B	UF		296	ug/L	1					GELC
Buckman Diversion SW	12/01/08	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	Tl	SW-846:6020	UF	<	0.6	ug/L	0.3	J	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	U	SW-846:6020	F		3.4	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	U	SW-846:6020	UF		3.5	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	12/01/08	V	SW-846:6010B	F		4.3	ug/L	1	J	J			GELC
Buckman Diversion SW	12/01/08	V	SW-846:6010B	UF		5.2	ug/L	1					GELC
Buckman Diversion SW	12/01/08	Zn	SW-846:6010B	F		2.5	ug/L	2	J	J	5000	EPA SEC DW LVL	GELC
Buckman Diversion SW	12/01/08	Zn	SW-846:6010B	UF		6.1	ug/L	2	J	J	5000	EPA SEC DW LVL	GELC

Laboratory Report for

Los Alamos National Laboratory

Request # 09-410

(Samples: CAWR-09)

December 12, 2008

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

December 12, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 09-410; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-410; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, both received in water filled 1-galon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]		Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-1415															X						
CAWR-09-1413															X						

[1] VM = Volume Measurement Method, VD = Volume Displacement Method
[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall
[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity
[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer
[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)
[6] WHC = Water Holding Capacity

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-1415	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-1413	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Laboratory Data and Graphical Plots

Particle Size Analysis

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-1415	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-1413	NA	NA	NA	NA	NA	WS	NA	NA

d_{60} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

BUCKMAN DIVERSION SW

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0218.00
Sample Number: CAWR-09-1415
Request Number: 09-410
Depth: NA
Test Date: 9-Dec-08

Initial Dry Weight of Sample (g): 0.50
Weight Passing #10 (g): 0.50
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.50
Calculated Weight of Sieve Sample (g): 0.50

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.50	100.00
	2"	50	0.00	0.00	0.50	100.00
	1.5"	38.1	0.00	0.00	0.50	100.00
	1"	25	0.00	0.00	0.50	100.00
	3/4"	19.0	0.00	0.00	0.50	100.00
	3/8"	9.5	0.00	0.00	0.50	100.00
	4	4.75	0.00	0.00	0.50	100.00
	10	2.00	0.00	0.00	0.50	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.03	0.03	0.47	94.00
	40	0.425	0.02	0.05	0.45	90.00
	60	0.250	0.02	0.07	0.43	86.00
	140	0.106	0.00	0.07	0.43	86.00
	200	0.075	0.00	0.07	0.43	86.00
	dry pan		0.00	0.07	0.43	
	wet pan			0.43	0.00	

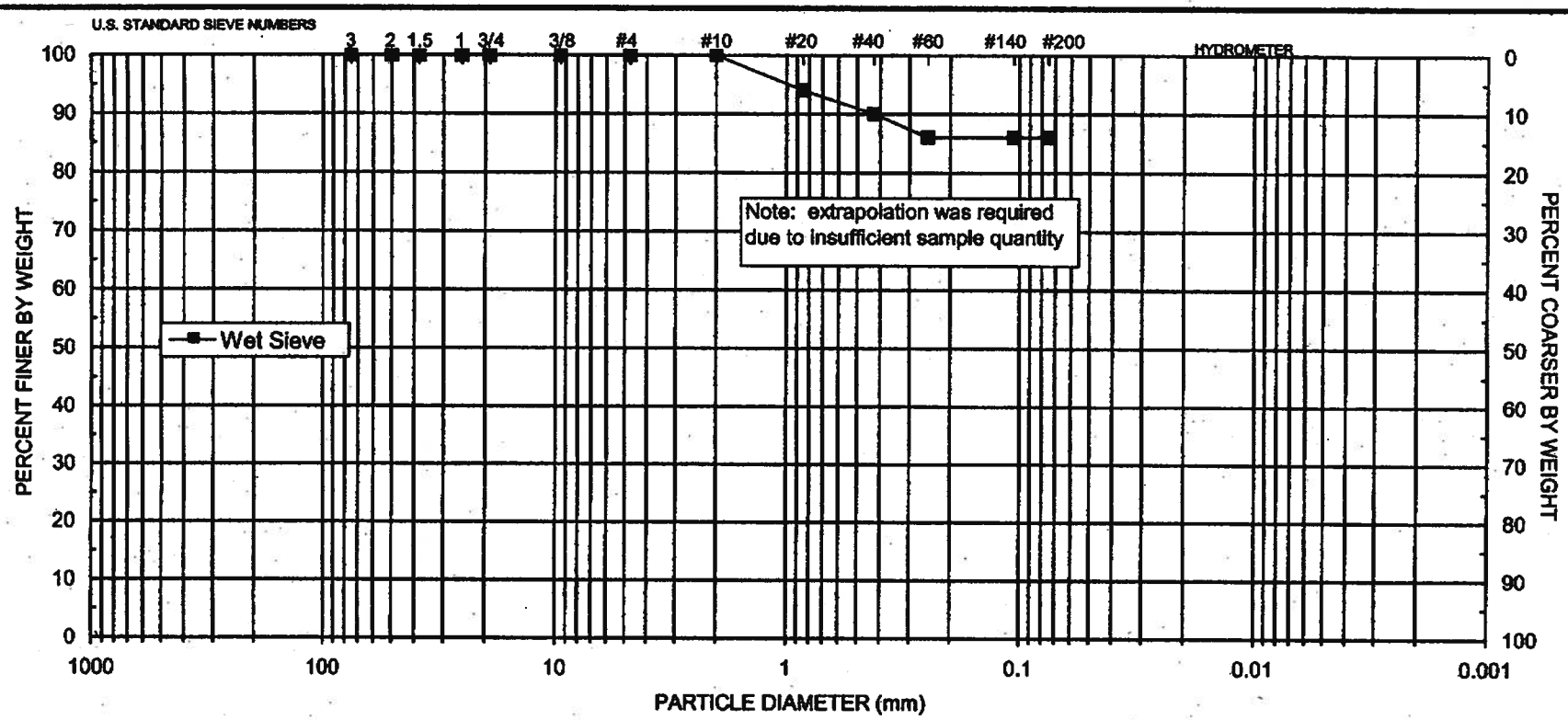
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA- Sample size insufficient for hydrometer analysis.
USDA Soil Classification: NA- Sample size insufficient for hydrometer analysis.

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-1415	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

RIO GRANDE AT OTOWI BRIDGE

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0218.00
Sample Number: CAWR-09-1413
Request Number: 09-410
Depth: NA
Test Date: 9-Dec-08

Initial Dry Weight of Sample (g): 0.48
Weight Passing #10 (g): 0.48
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.48
Calculated Weight of Sieve Sample (g): 0.48

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.48	100.00
	2"	50	0.00	0.00	0.48	100.00
	1.5"	38.1	0.00	0.00	0.48	100.00
	1"	25	0.00	0.00	0.48	100.00
	3/4"	19.0	0.00	0.00	0.48	100.00
	3/8"	9.5	0.00	0.00	0.48	100.00
	4	4.75	0.00	0.00	0.48	100.00
	10	2.00	0.00	0.00	0.48	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.01	0.01	0.47	97.92
	40	0.425	0.02	0.03	0.45	93.75
	60	0.250	0.01	0.04	0.44	91.67
	140	0.106	0.00	0.04	0.44	91.67
	200	0.075	0.00	0.04	0.44	91.67
	dry pan		0.00	0.04	0.44	
	wet pan			0.44	0.00	

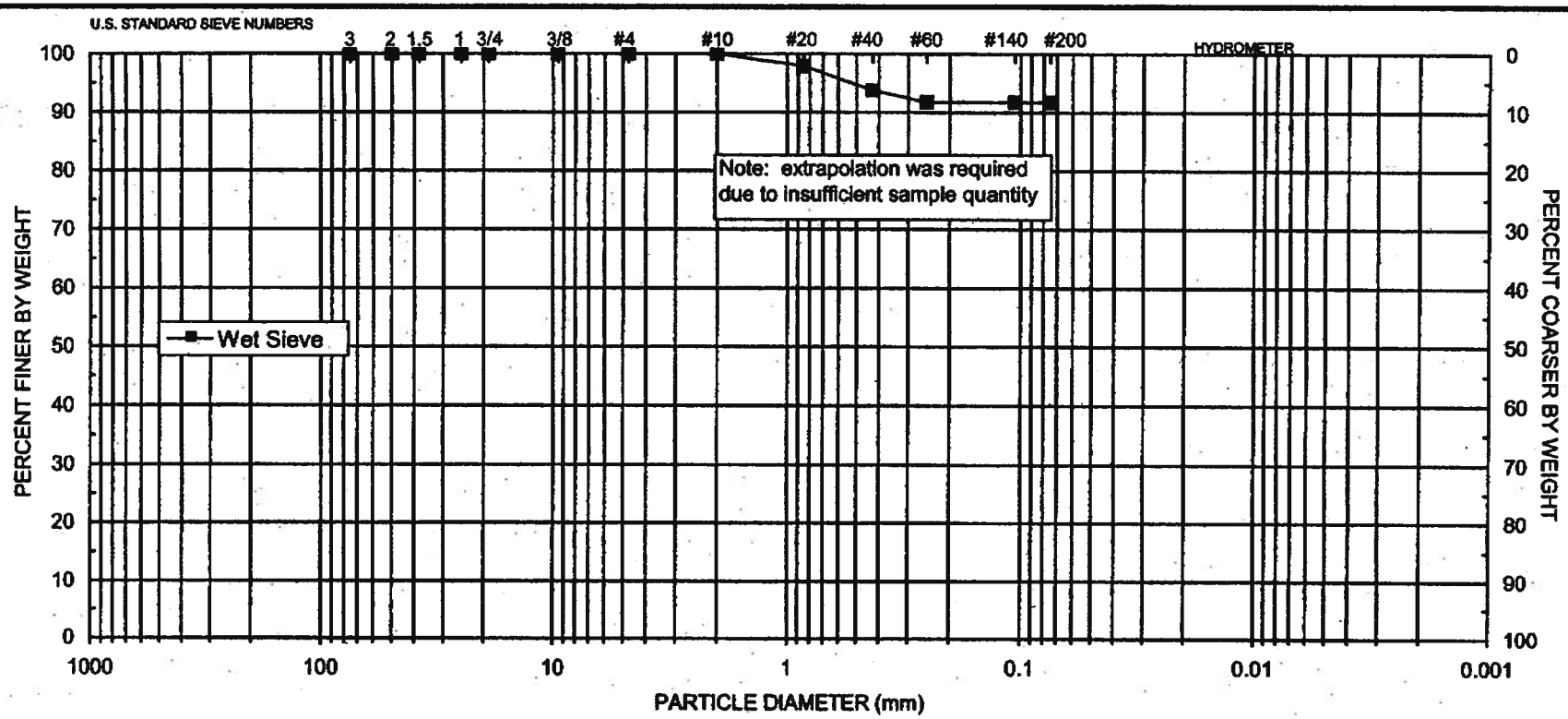
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-1413	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ?<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ?<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The resluts for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librai
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ?5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ?2 times the applicable holding time requiremer
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hic
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lc
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ?<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ?< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ?<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the N
LB	Gross contamination exists from a source other than the standard
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteria
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PC
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteria
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteria
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifier. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <?2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limi
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a ndlor the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'−DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptable for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analytes and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceedi
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificat
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceedi
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
Ri14a	RAD_Ri14a
Ri14b	RAD_Ri14b
Ri3	RAD_Ri3
Ri3a	RAD_Ri3a
Ri4	RAD_Ri4
Ri5	RAD_Ri5
Ri6	RAD_Ri6
RiA	RAD_RiA
RiB	RAD_RiB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or false negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detect
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12c
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificat
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for use
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VRS	VOC_VRS
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Buckman Diversion SW	02/18/09	Am-241	HASL-300:AM-241	F	<	-0.01	pCi/L	0.000	0.04	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Am-241	HASL-300:AM-241	UF	<	0.01	pCi/L	0.000	0.04	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Co-60	EPA:901.1	F	<	0.41	pCi/L	1.3	4.4	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Co-60	EPA:901.1	UF	<	2.12	pCi/L	1.2	4.6	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Cs-137	EPA:901.1	F	<	0.36	pCi/L	1.7	5.5	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Cs-137	EPA:901.1	UF	<	1.72	pCi/L	1.3	4.6	U	U	R5			GELC
Buckman Diversion SW	02/18/09	GROSSA	EPA:900	F		3.95	pCi/L	1.2	2.4				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	GROSSA	EPA:900	UF		5.81	pCi/L	1.5	2.7				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	GROSSB	EPA:900	F		3.52	pCi/L	1.0	2.7				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	GROSSB	EPA:900	UF		6.08	pCi/L	1.2	3				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	GROSSG	EPA:901.1	F	<	5.67	pCi/L	13	12	U	U	R5			GELC
Buckman Diversion SW	02/18/09	GROSSG	EPA:901.1	UF	<	13.3	pCi/L	17	37	U	U	R5			GELC
Buckman Diversion SW	02/18/09	H-3	Generic: Low_Level_Tritium	UF		4.36	pCi/L	0.75	0.98				20,000	EPA PRIM DW LVL	ARSL
Buckman Diversion SW	02/18/09	K-40	EPA:901.1	F	<	-0.22	pCi/L	18	66	U	U	R5			GELC
Buckman Diversion SW	02/18/09	K-40	EPA:901.1	UF	<	19.8	pCi/L	20	73	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Na-22	EPA:901.1	F	<	-1.73	pCi/L	1.6	4.6	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Na-22	EPA:901.1	UF	<	0.15	pCi/L	1.1	3.7	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Np-237	EPA:901.1	F	<	5.25	pCi/L	10	35	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Np-237	EPA:901.1	UF	<	-8.79	pCi/L	10	28	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Pu-238	HASL-300:ISOPU	F	<	0.000	pCi/L	0.000	0.03	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Pu-238	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.010	0.03	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Pu-239/240	HASL-300:ISOPU	F	<	0.000	pCi/L	0.000	0.04	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.010	0.05	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Ra-226	EPA:903.1	F	<	0.33	pCi/L	0.14	0.39	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Ra-226	EPA:903.1	UF	<	-0.16	pCi/L	0.07	0.38	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Ra-228	EPA:904	F	<	0.35	pCi/L	0.19	0.58	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Ra-228	EPA:904	UF	<	0.27	pCi/L	0.23	0.76	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Sr-90	EPA:905.0	F	<	0.12	pCi/L	0.14	0.47	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Sr-90	EPA:905.0	UF	<	0.22	pCi/L	0.12	0.39	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Th-228	HASL-300:ISOTH	F	<	0.00	pCi/L	0.02	0.14	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Th-228	HASL-300:ISOTH	UF	<	0.04	pCi/L	0.01	0.12	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Th-230	HASL-300:ISOTH	F	<	0.01	pCi/L	0.01	0.06	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Th-230	HASL-300:ISOTH	UF	<	0.04	pCi/L	0.01	0.06	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Th-232	HASL-300:ISOTH	F	<	0.00	pCi/L	0.00	0.04	U	U	R5			GELC
Buckman Diversion SW	02/18/09	Th-232	HASL-300:ISOTH	UF		0.07	pCi/L	0.01	0.03						GELC
Buckman Diversion SW	02/18/09	U-234	HASL-300:ISOU	F		1.12	pCi/L	0.10	0.12						GELC
Buckman Diversion SW	02/18/09	U-234	HASL-300:ISOU	UF		1.14	pCi/L	0.10	0.12		J+	R3b			GELC
Buckman Diversion SW	02/18/09	U-235/236	HASL-300:ISOU	F	<	0.03	pCi/L	0.01	0.07	U	U	R5			GELC
Buckman Diversion SW	02/18/09	U-235/236	HASL-300:ISOU	UF	<	0.05	pCi/L	0.02	0.07	U	U	R5			GELC
Buckman Diversion SW	02/18/09	U-238	HASL-300:ISOU	F		0.72	pCi/L	0.07	0.07						GELC
Buckman Diversion SW	02/18/09	U-238	HASL-300:ISOU	UF		0.73	pCi/L	0.07	0.08		J+	R3b			GELC

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	2/18/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	U3	VTc		GELC
Buckman Diversion SW	2/18/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	VTb		GELC
Buckman Diversion SW	2/18/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	R	VTb		GELC
Buckman Diversion SW	2/18/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	U3	VTc		GELC
Buckman Diversion SW	2/18/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U3	VTc		GELC
Buckman Diversion SW	2/18/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U3	VTc		GELC
Buckman Diversion SW	2/18/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U3	VTc		GELC
Buckman Diversion SW	2/18/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	2/18/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTb		GELC
Buckman Diversion SW	2/18/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	R	VTb		GELC
Buckman Diversion SW	2/18/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	2/18/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	U3	VTc	FTB	GELC
Buckman Diversion SW	2/18/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	VTb	FTB	GELC
Buckman Diversion SW	2/18/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	R	VTb	FTB	GELC
Buckman Diversion SW	2/18/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	U3	VTc	FTB	GELC
Buckman Diversion SW	2/18/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U3	VTc	FTB	GELC
Buckman Diversion SW	2/18/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U3	VTc	FTB	GELC
Buckman Diversion SW	2/18/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U3	VTc	FTB	GELC
Buckman Diversion SW	2/18/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	2/18/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTb	FTB	GELC
Buckman Diversion SW	2/18/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	R	VTb	FTB	GELC
Buckman Diversion SW	2/18/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	2/18/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	18-Feb-09	83-32-9	Acenaphthene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	208-96-8	Acenaphthylene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	62-53-3	Aniline	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	120-12-7	Anthracene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	1912-24-9	Atrazine	SW-846:8270C	UF	10	ug/L	U	R	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	103-33-3	Azobenzene	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	92-87-5	Benzidine	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	1	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	65-85-0	Benzoic Acid	SW-846:8270C	UF	20	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	101-55-3	4-Bromophenyl-phenylether[4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	106-47-8	4-Chloroaniline[4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	7005-72-3	4-Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	218-01-9	Chrysene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	1	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	132-64-9	Dibenzofuran	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	84-66-2	Diethylphthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	20	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	18-Feb-09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	88-85-7	Dinoseb	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	122-39-4	Diphenylamine	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	206-44-0	Fluoranthene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	86-73-7	Fluorene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	67-72-1	Hexachloroethane	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	1	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	78-59-1	Isophorone	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	91-20-3	Naphthalene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	98-95-3	Nitrobenzene	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	85-01-8	Phenanthrene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	108-95-2	Phenol	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	129-00-0	Pyrene	SW-846:8270C	UF	1	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	110-86-1	Pyridine	SW-846:8270C	UF	10	ug/L	U	U	SVTs	CS	GELC
Buckman Diversion SW	18-Feb-09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC
Buckman Diversion SW	18-Feb-09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	10	ug/L	U	U	U_LAB	CS	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	18-Feb-09	83-32-9	Acenaphthene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	208-96-8	Acenaphthylene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	62-53-3	Aniline	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	120-12-7	Anthracene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	1912-24-9	Atrazine	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	103-33-3	Azobenzene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	92-87-5	Benzidine	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	65-85-0	Benzoic Acid	SW-846:8270C	UF	20	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	101-55-3	4-Bromophenyl-phenylether[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	106-47-8	4-Chloroaniline[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	7005-72-3	4-Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	218-01-9	Chrysene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	132-64-9	Dibenzofuran	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	84-66-2	Diethylphthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	20	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	18-Feb-09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	88-85-7	Dinoseb	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	122-39-4	Diphenylamine	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	206-44-0	Fluoranthene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	86-73-7	Fluorene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	67-72-1	Hexachloroethane	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	78-59-1	Isophorone	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	91-20-3	Naphthalene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	98-95-3	Nitrobenzene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	85-01-8	Phenanthrene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	108-95-2	Phenol	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	129-00-0	Pyrene	SW-846:8270C	UF	1	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	110-86-1	Pyridine	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC
Buckman Diversion SW	18-Feb-09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	10	ug/L	U	U3	SVBR	RE	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	02/18/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.20	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	02/18/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.50	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	2/18/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.10	ug/L	0.03	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	2/18/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	2/18/09	1336-36-3	Total PCB	EPA:1668A	F	<	0.000327	ug/L	0.00000	B	U	CB4d		ALTC
Buckman Diversion SW	2/18/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.000011	ug/L	0.00000	B	U	CB4		ALTC
Buckman Diversion SW	2/18/09	1336-36-3	Total PCB	EPA:1668A	UF		0.001090	ug/L	0.00000	B			PEB	ALTC

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	02/18/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U			GELC
Buckman Diversion SW	02/18/09	ALK-CO3+HCO3	EPA:310.1	UF		96.2	mg/L	0.73					GELC
Buckman Diversion SW	02/18/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.070	U	U			GELC
Buckman Diversion SW	02/18/09	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0	U	U	0.2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Ca	SW-846:6010B	F		33.4	mg/L	0.03					GELC
Buckman Diversion SW	02/18/09	Ca	SW-846:6010B	UF		35.1	mg/L	0.03					GELC
Buckman Diversion SW	02/18/09	Cl(-1)	EPA:300.0	UF		5.26	mg/L	0.07			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	ClO4	SW-846:6850	UF		0.07	ug/L	0.05	J	J			GELC
Buckman Diversion SW	02/18/09	DO	Generic Field Measurement	UF		15.92	mg/L						FLD
Buckman Diversion SW	02/18/09	F(-1)	EPA:300.0	UF		0.38	mg/L	0.03			4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	HARDNESS	SM:A2340B	UF		118	mg/L	0.35					GELC
Buckman Diversion SW	02/18/09	HARDNESS	SM:A2340B	F		110	mg/L	0.35					GELC
Buckman Diversion SW	02/18/09	K	SW-846:6010B	UF		2.9	mg/L	0.05					GELC
Buckman Diversion SW	02/18/09	K	SW-846:6010B	F		2.4	mg/L	0.05					GELC
Buckman Diversion SW	02/18/09	Mg	SW-846:6010B	UF		7.4	mg/L	0.09					GELC
Buckman Diversion SW	02/18/09	Mg	SW-846:6010B	F		6.5	mg/L	0.09					GELC
Buckman Diversion SW	02/18/09	NH3-N	EPA:350.1	UF		0.06	mg/L	0.03		J-			GELC
Buckman Diversion SW	02/18/09	NO3+NO2-N	EPA:353.2	UF		0.20	mg/L	0.05	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Na	SW-846:6010B	UF		18	mg/L	0.05					GELC
Buckman Diversion SW	02/18/09	Na	SW-846:6010B	F		17	mg/L	0.05					GELC
Buckman Diversion SW	02/18/09	ORP	Generic Field Measurement	UF		360.2	mV						FLD
Buckman Diversion SW	02/18/09	PO4-P	EPA:365.4	UF	<	0.06	mg/L	0.02		U			GELC
Buckman Diversion SW	02/18/09	SO4(-2)	EPA:300.0	UF		33.2	mg/L	0.1			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	SPEC_CONDC	EPA:120.1	UF		275	uS/cm	1					GELC
Buckman Diversion SW	02/18/09	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		348	uS/cm						FLD
Buckman Diversion SW	02/18/09	SSC	EPA:160.2	UF		78.4	mg/L	1.1					GELC
Buckman Diversion SW	02/18/09	TDS	EPA:160.1	UF		181	mg/L	2.4			500	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	TEMP	GENERIC FIELD TEMP	UF		4.99	deg C						FLD
Buckman Diversion SW	02/18/09	TKN	EPA:351.2	UF	<	0.20	mg/L	0.03		U			GELC
Buckman Diversion SW	02/18/09	TOC	SW-846:9060	UF		2.2	mg/L	0.33					GELC
Buckman Diversion SW	18-Feb-09	TURB	GENERIC FIELD TURB	UF		22.2	NTU						FLD
Buckman Diversion SW	18-Feb-09	pH	GENERIC FIELD PH	UF		8.02	SU				6.5-8.5	EPA SEC DW LVL	FLD
Buckman Diversion SW	18-Feb-09	pH	EPA:150.1	UF		8.2	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	02/18/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	200	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Al	SW-846:6010B	UF		1760	ug/L	68			200	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	As	SW-846:6020	F		1.9	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	As	SW-846:6020	UF		2.4	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	B	SW-846:6010B	F	<	36.8	ug/L	10	J	U			GELC
Buckman Diversion SW	02/18/09	B	SW-846:6010B	UF	<	37.8	ug/L	10	J	U			GELC
Buckman Diversion SW	02/18/09	Ba	SW-846:6010B	F		47	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Ba	SW-846:6010B	UF		67	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			GELC
Buckman Diversion SW	02/18/09	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U			GELC
Buckman Diversion SW	02/18/09	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Cr	SW-846:6020	UF		2.1	ug/L	1.5	J	J	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Fe	SW-846:6010B	UF		1390	ug/L	25			300	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Mn	SW-846:6010B	F		8.2	ug/L	2	J	J	50	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Mn	SW-846:6010B	UF		61.6	ug/L	2			50	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Mo	SW-846:6020	F		4.1	ug/L	0.1					GELC
Buckman Diversion SW	02/18/09	Mo	SW-846:6020	UF		4	ug/L	0.1					GELC
Buckman Diversion SW	02/18/09	Ni	SW-846:6020	F		1.2	ug/L	0.5	J	J			GELC
Buckman Diversion SW	02/18/09	Ni	SW-846:6020	UF		1.9	ug/L	0.5	J	J			GELC
Buckman Diversion SW	02/18/09	Pb	SW-846:6020	F	<	2.0	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Pb	SW-846:6020	UF		1.3	ug/L	0.5	J	J	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	SiO2	SW-846:6010B	UF		34.7	mg/L	0.03					GELC
Buckman Diversion SW	02/18/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U			GELC
Buckman Diversion SW	02/18/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Buckman Diversion SW	02/18/09	Sr	SW-846:6010B	F		236	ug/L	1					GELC
Buckman Diversion SW	02/18/09	Sr	SW-846:6010B	UF		256	ug/L	1					GELC
Buckman Diversion SW	02/18/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	U	SW-846:6020	F		2.7	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	U	SW-846:6020	UF		2.7	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	02/18/09	V	SW-846:6010B	F	<	4.2	ug/L	1	J	U			GELC
Buckman Diversion SW	02/18/09	V	SW-846:6010B	UF		6.3	ug/L	1		J			GELC
Buckman Diversion SW	02/18/09	Zn	SW-846:6010B	F	<	4.7	ug/L	2	J	U	5000	EPA SEC DW LVL	GELC
Buckman Diversion SW	02/18/09	Zn	SW-846:6010B	UF	<	10.8	ug/L	2		U	5000	EPA SEC DW LVL	GELC

— Buckman —

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0044.00
Sample Number: CAWR-09-2366
Request Number: 09-947
Depth: NA
Test Date: 3-Mar-09

Initial Dry Weight of Sample (g): 0.78
Weight Passing #10 (g): 0.78
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.78
Calculated Weight of Sieve Sample (g): 0.78
Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.78	100.00
	2"	50	0.00	0.00	0.78	100.00
	1.5"	38.1	0.00	0.00	0.78	100.00
	1"	25	0.00	0.00	0.78	100.00
	3/4"	19.0	0.00	0.00	0.78	100.00
	3/8"	9.5	0.00	0.00	0.78	100.00
	4	4.75	0.00	0.00	0.78	100.00
	10	2.00	0.00	0.00	0.78	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.78	100.00
	40	0.425	0.01	0.01	0.77	98.72
	60	0.250	0.01	0.02	0.76	97.44
	140	0.106	0.14	0.16	0.62	79.49
	200	0.075	0.12	0.28	0.50	64.10
	dry pan		0.49	0.77	0.01	
	wet pan			0.01	0.00	

d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confimed on a second dissimilar column or diode array spectrums do not match librai
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremen
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lc
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >!= 10% OR < 10% but some sample results are > PC
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifire. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missinc
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamec
RWQ2	Result values are less than than 3 times the MD(
RWQ3	Less than the negative MD(
RWQ4	Planchets were not flamec
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12a
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
[illegible]	[illegible]

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceedi
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceedi
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab_RAD
RSQLP	RAD_SQLPLUR8B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD(
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR8B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12c
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Buckman Diversion SW	05/14/09	Am-241	HASL-300:AM-241	F	<	-0.00471	pCi/L	0.0039	0.0330	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Am-241	HASL-300:AM-241	UF	<	0.00546	pCi/L	0.0077	0.035	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Co-60	EPA:901.1	F	<	-0.0718	pCi/L	1.2	4.0	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Co-60	EPA:901.1	UF	<	2.13	pCi/L	1.2	4.6	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Cs-137	EPA:901.1	F	<	-0.53	pCi/L	1.2	3.7	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Cs-137	EPA:901.1	UF	<	-0.82	pCi/L	1.2	3.7	U	U	R5			GELC
Buckman Diversion SW	05/14/09	GROSSA	EPA:900	F	<	1.58	pCi/L	0.7	2.0	U	UJ	R6b	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	GROSSA	EPA:900	UF	<	3.36	pCi/L	1.1	2.7		UJ	R6b	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	GROSSB	EPA:900	F		2.81	pCi/L	0.82	2.4				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	GROSSB	EPA:900	UF		3.35	pCi/L	0.92	2.6				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	GROSSG	EPA:901.1	F	<	16.0	pCi/L	45	57	U	U	R5			GELC
Buckman Diversion SW	05/14/09	GROSSG	EPA:901.1	UF	<	22.4	pCi/L	25	47	U	U	R5			GELC
Buckman Diversion SW	05/14/09	H-3	Low_Level_Tritium	UF		22.2	pCi/L	0.74	0.29				20,000	EPA PRIM DW LVL	UMTL
Buckman Diversion SW	05/14/09	K-40	EPA:901.1	F	<	13.3	pCi/L	14	49	U	U	R5			GELC
Buckman Diversion SW	05/14/09	K-40	EPA:901.1	UF	<	21	pCi/L	16	57	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Na-22	EPA:901.1	F	<	1.6	pCi/L	1.1	4.1	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Na-22	EPA:901.1	UF	<	-1.77	pCi/L	1.3	3.4	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Np-237	EPA:901.1	F	<	-19.6	pCi/L	10	30	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Np-237	EPA:901.1	UF	<	-7.92	pCi/L	9.2	28	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Pu-238	HASL-300:ISOPU	F	<	-0.008	pCi/L	0.009	0.045	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Pu-238	HASL-300:ISOPU	UF	<	0.004	pCi/L	0.003	0.036	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Pu-239/240	HASL-300:ISOPU	F	<	-0.008	pCi/L	0.0076	0.0460	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.004	pCi/L	0.0026	0.0370	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Ra-226	EPA:903.1	F	<	-0.05	pCi/L	0.10	0.44	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Ra-226	EPA:903.1	UF	<	0.35	pCi/L	0.12	0.32		U	R11	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Ra-228	EPA:904	F	<	0.57	pCi/L	0.24	0.72	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Ra-228	EPA:904	UF	<	0.54	pCi/L	0.18	0.48		U	R11	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Sr-90	EPA:905.0	F	<	0.22	pCi/L	0.12	0.38	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Sr-90	EPA:905.0	UF	<	0.15	pCi/L	0.12	0.41	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Th-228	HASL-300:ISOTH	F	<	0.00	pCi/L	0.010	0.15	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Th-228	HASL-300:ISOTH	UF	<	0.13	pCi/L	0.029	0.24	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Th-230	HASL-300:ISOTH	F	<	0.02	pCi/L	0.009	0.10	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Th-230	HASL-300:ISOTH	UF	<	0.13	pCi/L	0.025	0.16	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Th-232	HASL-300:ISOTH	F	<	0.003	pCi/L	0.003	0.04	U	U	R5			GELC
Buckman Diversion SW	05/14/09	Th-232	HASL-300:ISOTH	UF		0.136	pCi/L	0.026	0.065						GELC
Buckman Diversion SW	05/14/09	U-234	HASL-300:ISOU	F		0.435	pCi/L	0.051	0.15						GELC
Buckman Diversion SW	05/14/09	U-234	HASL-300:ISOU	UF		0.567	pCi/L	0.062	0.15						GELC
Buckman Diversion SW	05/14/09	U-235/236	HASL-300:ISOU	F	<	0.0135	pCi/L	0.012	0.068	U	U	R5			GELC
Buckman Diversion SW	05/14/09	U-235/236	HASL-300:ISOU	UF	<	0.00947	pCi/L	0.010	0.072	U	U	R5			GELC
Buckman Diversion SW	05/14/09	U-238	HASL-300:ISOU	F		0.273	pCi/L	0.037	0.073						GELC
Buckman Diversion SW	05/14/09	U-238	HASL-300:ISOU	UF		0.379	pCi/L	0.048	0.077						GELC

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/14/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U?	V??		GELA
Buckman Diversion SW	5/14/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	10.0	ug/L	U	R	V??		GELA

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/14/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	V??		GELA
Buckman Diversion SW	5/14/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	V??		GELA
Buckman Diversion SW	5/14/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	UJ	V??		GELA
Buckman Diversion SW	5/14/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELA
Buckman Diversion SW	5/14/09	Xylene(1,3 and 1,4)	Xylene(1,3-)+Xylene(1,4-)	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB		GELA

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/14/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	UJ	V??	FTB	GELA
Buckman Diversion SW	5/14/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/14/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	10.0	ug/L	U	R	V??	FTB	GELA
Buckman Diversion SW	5/14/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	V??	FTB	GELA
Buckman Diversion SW	5/14/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	V??	FTB	GELA
Buckman Diversion SW	5/14/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	UJ	V??	FTB	GELA
Buckman Diversion SW	5/14/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELA
Buckman Diversion SW	5/14/09	Xylene(1,3 and 1,4)	Xylene(1,3-)+Xylene(1,4-)	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB	FTB	GELA

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	05/14/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	UJ	SV7c	GELC
Buckman Diversion SW	05/14/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	SV7c	GELC
Buckman Diversion SW	05/14/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	108-95-2	Phenol	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	110-86-1	Pyridine	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.32	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	R	SV7b	GELC
Buckman Diversion SW	05/14/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	21.1	ug/L	11	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	UJ	SV7c	GELC
Buckman Diversion SW	05/14/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Sample Type Code**	**Lab Code**
Buckman Diversion SW	05/14/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	62-53-3	Aniline	SW-846:8270C	UF	<	10.5	ug/L	2.6	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	21.1	ug/L	6.3	U	R	SV12	GELC
Buckman Diversion SW	05/14/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	78-59-1	Isophorone	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.05	ug/L	0.33	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.05	ug/L	0.32	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.05	ug/L	0.32	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.05	ug/L	0.32	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.05	ug/L	0.37	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	92-87-5	Benzidine	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	SV7a	GELC
Buckman Diversion SW	05/14/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.5	ug/L	3.2	U	UJ	SV7a	GELC
Buckman Diversion SW	05/14/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	SV7a	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	05/14/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF		0.01	ug/L	J	J	J_LAB	GELC
Buckman Diversion SW	05/14/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.22	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	05/14/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.54	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.12	ug/L	0.04	U	U	U_LAB		GELC
Buckman Diversion SW	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.11	ug/L	0.04	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	39947.00	1336-36-3	Total PCB	EPA:1668A	F		0.00016800	ug/L	0.00005560					ALTC
Buckman Diversion SW	39947.00	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00005600	ug/L	0.00005600	U	U	U_LAB		ALTC
Buckman Diversion SW	39947.00	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00005340	ug/L	0.00005340	U	U	U_LAB	FB	ALTC

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	05/14/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U			GELC
Buckman Diversion SW	05/14/09	ALK-CO3+HCO3	EPA:310.1	UF		67.1	mg/L	0.73					GELC
Buckman Diversion SW	05/14/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U			GELC
Buckman Diversion SW	05/14/09	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	0.002	U	U	0.2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Ca	SW-846:6010B	F		24.1	mg/L	0.03					GELC
Buckman Diversion SW	05/14/09	Ca	SW-846:6010B	UF		28.4	mg/L	0.03					GELC
Buckman Diversion SW	05/14/09	Cl(-1)	EPA:300.0	UF		2.15	mg/L	0.066			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	ClO4	SW-846:6850	UF		0.07	ug/L	0.05	J	J			GELC
Buckman Diversion SW	05/14/09	DO	Generic Field Measurement	UF		9.75	mg/L						FLD
Buckman Diversion SW	05/14/09	F(-1)	EPA:300.0	UF		0.189	mg/L	0.033			4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	HARDNESS	SM:A2340B	F		77.6	mg/L	0.35					GELC
Buckman Diversion SW	05/14/09	HARDNESS	SM:A2340B	UF		93.5	mg/L	0.35					GELC
Buckman Diversion SW	05/14/09	K	SW-846:6010B	F		2.0	mg/L	0.05					GELC
Buckman Diversion SW	05/14/09	K	SW-846:6010B	UF		3.1	mg/L	0.05					GELC
Buckman Diversion SW	05/14/09	Mg	SW-846:6010B	F		4.2	mg/L	0.085					GELC
Buckman Diversion SW	05/14/09	Mg	SW-846:6010B	UF		5.5	mg/L	0.085					GELC
Buckman Diversion SW	05/14/09	NH3-N	EPA:350.1	UF	<	0.07	mg/L	0.016		U			GELC
Buckman Diversion SW	05/14/09	NO3+NO2-N	EPA:353.2	UF	<	0.05	mg/L	0.01	U	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Na	SW-846:6010B	F		8.4	mg/L	0.05					GELC
Buckman Diversion SW	05/14/09	Na	SW-846:6010B	UF		9.1	mg/L	0.05					GELC
Buckman Diversion SW	05/14/09	ORP	Generic Field Measurement	UF		402	mV						FLD
Buckman Diversion SW	05/14/09	PO4-P	EPA:365.4	UF		0.14	mg/L	0.02					GELC
Buckman Diversion SW	05/14/09	SO4(-2)	EPA:300.0	UF		25.6	mg/L	0.1			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	SPEC_CONDC	EPA:120.1	UF		197	uS/cm	1					GELC
Buckman Diversion SW	05/14/09	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		174	uS/cm						FLD
Buckman Diversion SW	05/14/09	SSC	EPA:160.2	UF		95	mg/L	2.9					GELC
Buckman Diversion SW	05/14/09	TDS	EPA:160.1	UF		143	mg/L	2.4		J	500	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	TEMP	GENERIC FIELD TEMP	UF		14.2	deg C						FLD
Buckman Diversion SW	05/14/09	TKN	EPA:351.2	UF		0.48	mg/L	0.033					GELC
Buckman Diversion SW	05/14/09	TOC	SW-846:9060	UF		5.8	mg/L	0.33					GELC
Buckman Diversion SW	05/14/09	TURB	GENERIC FIELD TURB	UF		70.6	NTU						FLD
Buckman Diversion SW	05/14/09	pH	EPA:150.1	UF		8.03	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	pH	GENERIC FIELD PH	UF		7.75	SU				6.5-8.5	EPA SEC DW LVL	FLD

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	05/14/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Al	SW-846:6010B	F	<	200	ug/L	68	UN	UJ	200	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Al	SW-846:6010B	UF		4550	ug/L	68	N	J+	200	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	B	SW-846:6010B	F		18.7	ug/L	10	J	J			GELC
Buckman Diversion SW	05/14/09	B	SW-846:6010B	UF		20.9	ug/L	10	J	J			GELC
Buckman Diversion SW	05/14/09	Ba	SW-846:6010B	F		37.5	ug/L	1		J	2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Ba	SW-846:6010B	UF		82.2	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U			GELC
Buckman Diversion SW	05/14/09	Co	SW-846:6010B	UF		1.5	ug/L	1	J	J			GELC
Buckman Diversion SW	05/14/09	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Cr	SW-846:6020	UF		2.87	ug/L	1.5	J	J	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Cu	SW-846:6010B	UF		5.44	ug/L	3	J	J	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Fe	SW-846:6010B	UF		3680	ug/L	25			300	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Mn	SW-846:6010B	F		3.94	ug/L	2	J	J	50	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Mn	SW-846:6010B	UF		136	ug/L	2			50	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Mo	SW-846:6020	F		1.74	ug/L	0.1					GELC
Buckman Diversion SW	05/14/09	Mo	SW-846:6020	UF		1.99	ug/L	0.1					GELC
Buckman Diversion SW	05/14/09	Ni	SW-846:6020	F		1.4	ug/L	0.5	J	J			GELC
Buckman Diversion SW	05/14/09	Ni	SW-846:6020	UF		3.9	ug/L	0.5					GELC
Buckman Diversion SW	05/14/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Pb	SW-846:6020	UF		5.46	ug/L	0.5			15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	SiO2	SW-846:6010B	UF		38.6	mg/L	0.03	N	J+			GELC
Buckman Diversion SW	05/14/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U			GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Buckman Diversion SW	05/14/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			GELC
Buckman Diversion SW	05/14/09	Sr	SW-846:6010B	F		161	ug/L	1					GELC
Buckman Diversion SW	05/14/09	Sr	SW-846:6010B	UF		188	ug/L	1					GELC
Buckman Diversion SW	05/14/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	U	SW-846:6020	F		1.1	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	U	SW-846:6020	UF		1.4	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	05/14/09	V	SW-846:6010B	F		3.17	ug/L	1	J	J			GELC
Buckman Diversion SW	05/14/09	V	SW-846:6010B	UF		10.5	ug/L	1					GELC
Buckman Diversion SW	05/14/09	Zn	SW-846:6010B	F		2.36	ug/L	2	J	J	5000	EPA SEC DW LVL	GELC
Buckman Diversion SW	05/14/09	Zn	SW-846:6010B	UF		18.2	ug/L	2			5000	EPA SEC DW LVL	GELC

Laboratory Report for

Los Alamos National Laboratory

Request # 09-1911

(Samples: CAWR-09)

June 2, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

June 2, 2009

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545

Re: DBS&A Laboratory Report for LANL Request # 09-1911; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-1911; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, which were received in water filled 1-gallon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
Soil Testing & Research Laboratory
5840 Osuna Rd. NE
Albuquerque, NM 87109
505-889-7752
FAX 505-889-0258

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-8348																X						
CAWR-09-8350																X						
CAWR-09-8354																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-8348	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8350	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8354	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insufficient sample quantity.

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-8348	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8350	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8354	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insufficient sample quantity.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8348
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.74
Weight Passing #10 (g): 0.74
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.74
Calculated Weight of Sieve Sample (g): 0.74

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.74	100.00
	2"	50	0.00	0.00	0.74	100.00
	1.5"	38.1	0.00	0.00	0.74	100.00
	1"	25	0.00	0.00	0.74	100.00
	3/4"	19.0	0.00	0.00	0.74	100.00
	3/8"	9.5	0.00	0.00	0.74	100.00
	4	4.75	0.00	0.00	0.74	100.00
	10	2.00	0.00	0.00	0.74	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.74	100.00
	40	0.425	0.01	0.01	0.73	98.65
	60	0.250	0.01	0.02	0.72	97.30
	140	0.106	0.06	0.08	0.66	89.19
	200	0.075	0.06	0.14	0.60	81.08
	dry pan		0.03	0.17	0.57	
	wet pan			0.57	0.00	

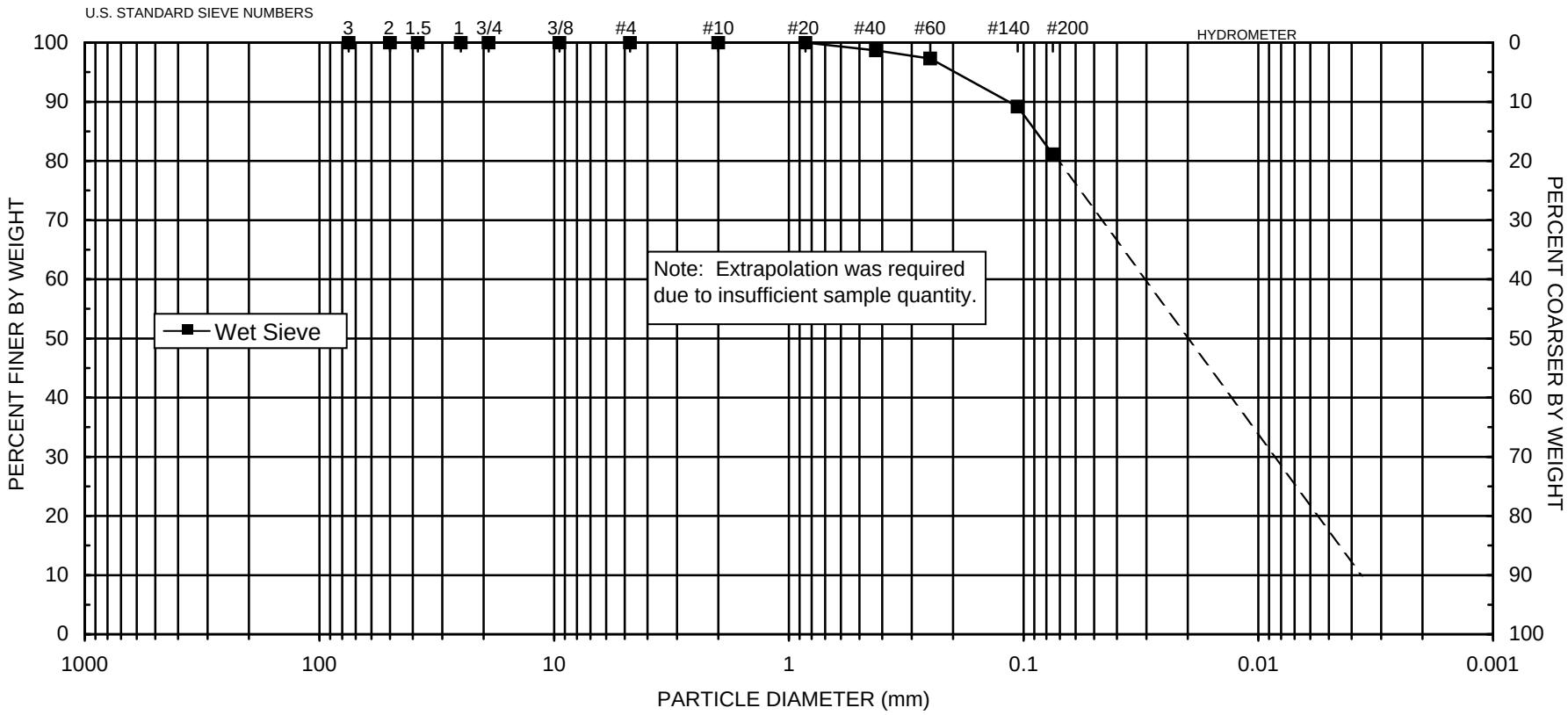
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8348	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8350
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.84
Weight Passing #10 (g): 0.84
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.84
Calculated Weight of Sieve Sample (g): 0.84

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.84	100.00
	2"	50	0.00	0.00	0.84	100.00
	1.5"	38.1	0.00	0.00	0.84	100.00
	1"	25	0.00	0.00	0.84	100.00
	3/4"	19.0	0.00	0.00	0.84	100.00
	3/8"	9.5	0.00	0.00	0.84	100.00
	4	4.75	0.00	0.00	0.84	100.00
	10	2.00	0.00	0.00	0.84	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.03	0.03	0.81	96.43
	40	0.425	0.01	0.04	0.80	95.24
	60	0.250	0.08	0.12	0.72	85.71
	140	0.106	0.02	0.14	0.70	83.33
	200	0.075	0.09	0.23	0.61	72.62
	dry pan		0.02	0.25	0.59	
	wet pan			0.59	0.00	

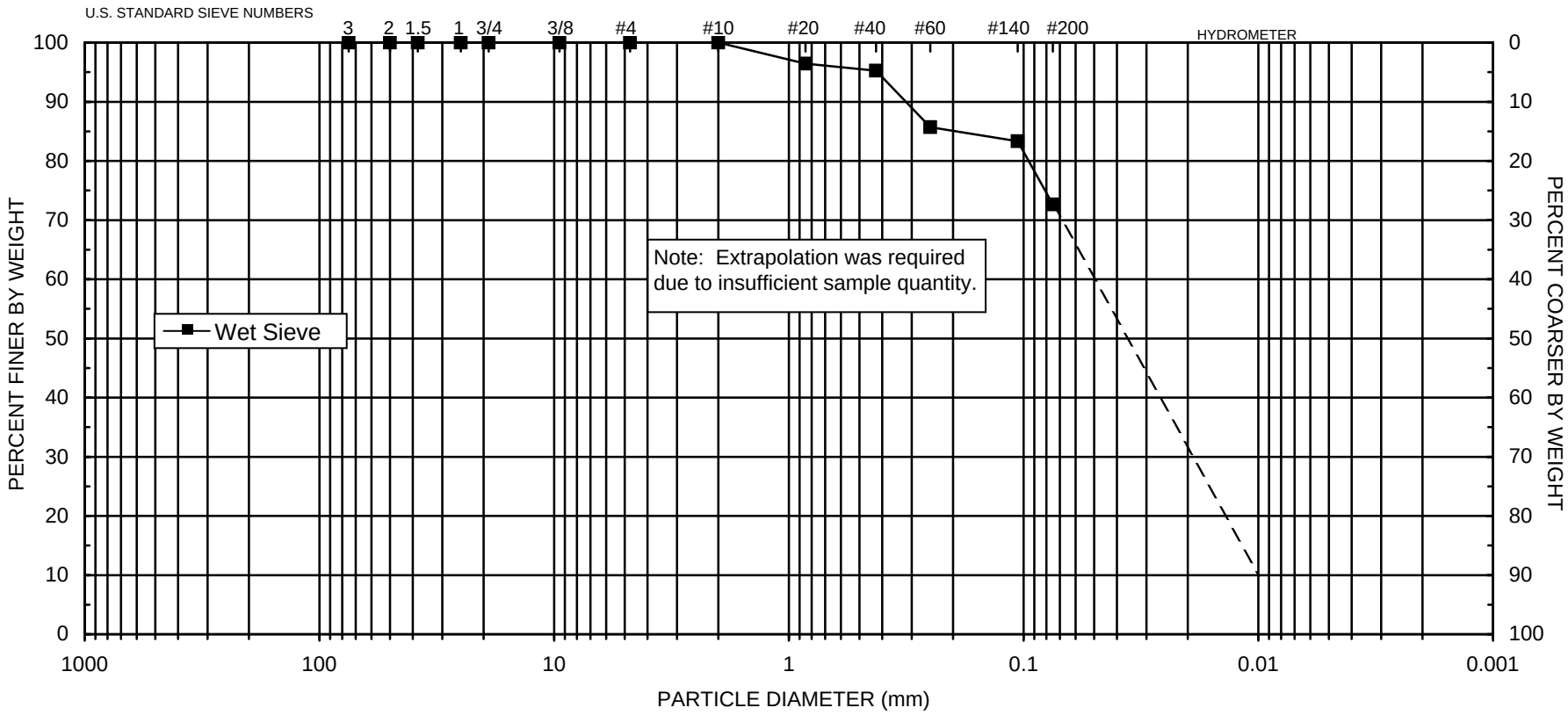
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8350	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8354
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.77
Weight Passing #10 (g): 0.77
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.77
Calculated Weight of Sieve Sample (g): 0.77

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.77	100.00
	2"	50	0.00	0.00	0.77	100.00
	1.5"	38.1	0.00	0.00	0.77	100.00
	1"	25	0.00	0.00	0.77	100.00
	3/4"	19.0	0.00	0.00	0.77	100.00
	3/8"	9.5	0.00	0.00	0.77	100.00
	4	4.75	0.00	0.00	0.77	100.00
	10	2.00	0.00	0.00	0.77	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.77	100.00
	40	0.425	0.00	0.00	0.77	100.00
	60	0.250	0.03	0.03	0.74	96.10
	140	0.106	0.08	0.11	0.66	85.71
	200	0.075	0.06	0.17	0.60	77.92
	dry pan		0.02	0.19	0.58	
	wet pan			0.58	0.00	

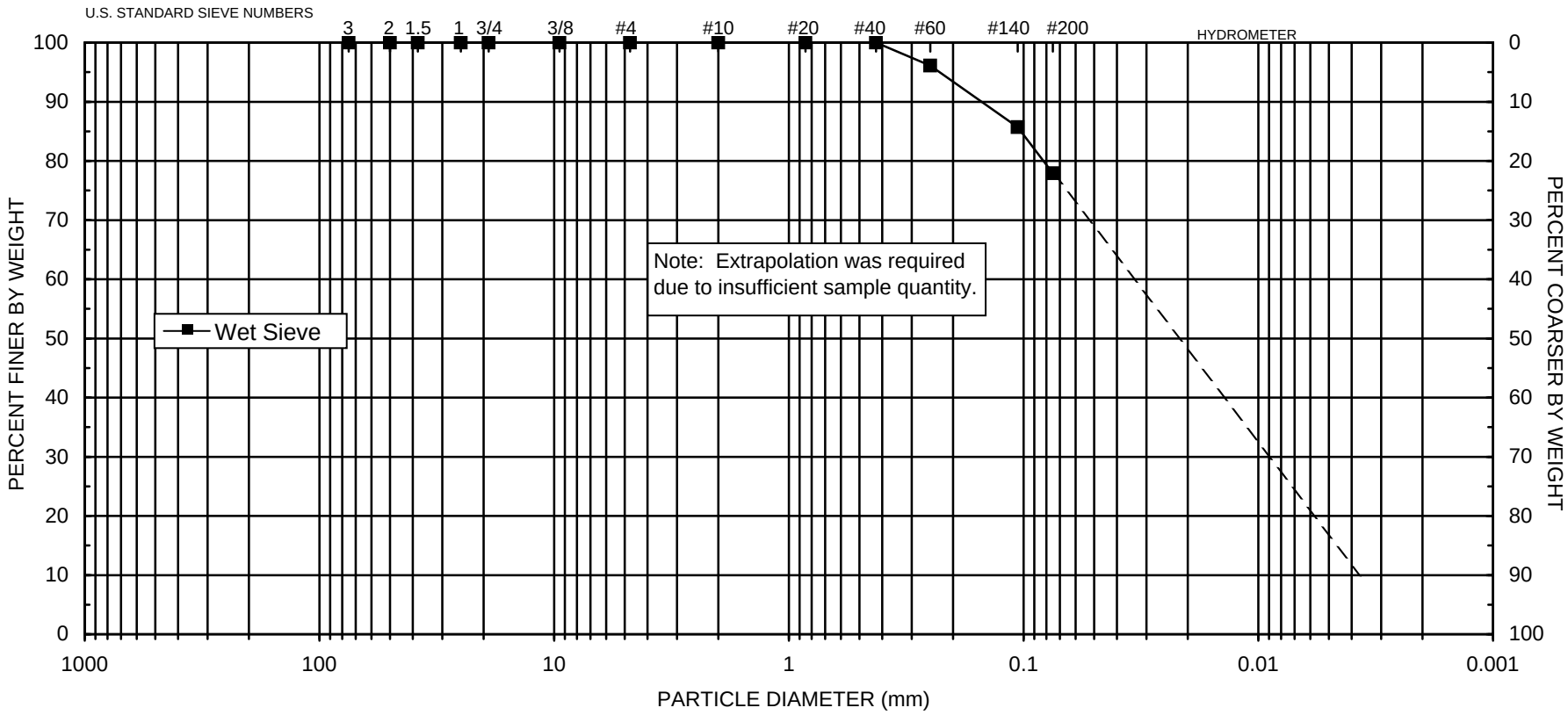
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc --$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter --$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY				
		Coarse	Fine	Coarse	Medium	Fine					
USDA	COBBLES	GRAVEL		SAND				SILT			CLAY
				Very coarse	Coarse	Medium	Fine	Very fine			

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8354	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C84	The sample result is ≤<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated d package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librai
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performe
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration rang
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RSD> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluat
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 2x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab_RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VI#
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	07/15/09	Am-241	HASL-300:AM-241	F	<	0.048	pCi/L	0.0120	0.0480	U	U	GELC		
Buckman Diversion SW	07/15/09	Am-241	HASL-300:AM-241	UF	<	0.002	pCi/L	0.0027	0.045	U	U	GELC		
Buckman Diversion SW	07/15/09	Co-60	EPA:901.1	F	<	-2.81	pCi/L	1.4	3.7	U	U	GELC		
Buckman Diversion SW	07/15/09	Co-60	EPA:901.1	UF	<	0.66	pCi/L	1.4	4.8	U	U	GELC		
Buckman Diversion SW	07/15/09	Cs-137	EPA:901.1	F	<	1.65	pCi/L	1.3	4.7	U	U	GELC		
Buckman Diversion SW	07/15/09	Cs-137	EPA:901.1	UF	<	0.17	pCi/L	1.4	4.5	U	U	GELC		
Buckman Diversion SW	07/15/09	GROSSA	EPA:900	F		3.2	pCi/L	0.9	2.0			GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	GROSSA	EPA:900	UF		3.3	pCi/L	0.8	1.5			GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	GROSSB	EPA:900	F		10.2	pCi/L	1.4	2.3			GELC	50	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	GROSSB	EPA:900	UF		8.62	pCi/L	1.6	3.9			GELC	50	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	GROSSG	EPA:901.1	F	<	17.5	pCi/L	24	53	U	U	GELC		
Buckman Diversion SW	07/15/09	GROSSG	EPA:901.1	UF	<	17.6	pCi/L	16	40	U	U	GELC		
Buckman Diversion SW	07/15/09	H-3	Low_Level_Tritium	UF		19.6	pCi/L	0.64	0.288			UMTL	20,000	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	K-40	EPA:901.1	F	<	0.8	pCi/L	19.0	31.0	U	U	GELC		
Buckman Diversion SW	07/15/09	K-40	EPA:901.1	UF	<	15	pCi/L	17	59	U	U	GELC		
Buckman Diversion SW	07/15/09	Na-22	EPA:901.1	F	<	-0.331	pCi/L	1	3.2	U	U	GELC		
Buckman Diversion SW	07/15/09	Na-22	EPA:901.1	UF	<	-1.43	pCi/L	1.4	4	U	U	GELC		
Buckman Diversion SW	07/15/09	Np-237	EPA:901.1	F	<	-2.66	pCi/L	9.2	29	U	U	GELC		
Buckman Diversion SW	07/15/09	Np-237	EPA:901.1	UF	<	-1.86	pCi/L	11	38	U	U	GELC		
Buckman Diversion SW	07/15/09	Pu-238	HASL-300:ISOPU	F	<	0.000	pCi/L	0.003	0.052	U	U	GELC		
Buckman Diversion SW	07/15/09	Pu-238	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.003	0.048	U	U	GELC		
Buckman Diversion SW	07/15/09	Pu-239/240	HASL-300:ISOPU	F	<	0.003	pCi/L	0.003	0.064	U	U	GELC		
Buckman Diversion SW	07/15/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.003	0.059	U	U	GELC		
Buckman Diversion SW	07/15/09	Ra-226	EPA:903.1	F	<	0.152	pCi/L	0.082	0.250	U	U	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Ra-226	EPA:903.1	UF	<	0.262	pCi/L	0.10	0.27	U	U	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Ra-228	EPA:904	F	<	0.902	pCi/L	0.33	0.97	U	U	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Ra-228	EPA:904	UF		1.410	pCi/L	0.37	0.94			GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Sr-90	EPA:905.0	F	<	0.320	pCi/L	0.15	0.48	U	U	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Sr-90	EPA:905.0	UF	<	-0.068	pCi/L	0.12	0.44	U	U	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Th-228	HASL-300:ISOTH	F	<	-0.038	pCi/L	0.0097	0.16	U	U	GELC		
Buckman Diversion SW	07/15/09	Th-228	HASL-300:ISOTH	UF		0.180	pCi/L	0.025	0.15			GELC		
Buckman Diversion SW	07/15/09	Th-230	HASL-300:ISOTH	F	<	0.008	pCi/L	0.0068	0.12	U	U	GELC		
Buckman Diversion SW	07/15/09	Th-230	HASL-300:ISOTH	UF		0.113	pCi/L	0.018	0.11			GELC		
Buckman Diversion SW	07/15/09	Th-232	HASL-300:ISOTH	F	<	-0.005	pCi/L	0.006	0.046	U	U	GELC		
Buckman Diversion SW	07/15/09	Th-232	HASL-300:ISOTH	UF		0.140	pCi/L	0.021	0.04			GELC		
Buckman Diversion SW	07/15/09	U-234	HASL-300:ISOU	F		0.663	pCi/L	0.053	0.056			GELC		
Buckman Diversion SW	07/15/09	U-234	HASL-300:ISOU	UF		0.771	pCi/L	0.062	0.058			GELC		
Buckman Diversion SW	07/15/09	U-235/236	HASL-300:ISOU	F		0.033	pCi/L	0.0092	0.028			GELC		
Buckman Diversion SW	07/15/09	U-235/236	HASL-300:ISOU	UF		0.041	pCi/L	0.009	0.028			GELC		
Buckman Diversion SW	07/15/09	U-238	HASL-300:ISOU	F		0.445	pCi/L	0.039	0.028			GELC		
Buckman Diversion SW	07/15/09	U-238	HASL-300:ISOU	UF		0.497	pCi/L	0.043	0.028			GELC		

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/15/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	R	V%		GELC
Buckman Diversion SW	7/15/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	74-87-3	Chloromethane	SW-846:8260B	UF	0.8	ug/L	J	J	L LAB		GELC
Buckman Diversion SW	7/15/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB		GELC
Buckman Diversion SW	7/15/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/15/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	V%		GELC
Buckman Diversion SW	7/15/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	V%		GELC
Buckman Diversion SW	7/15/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%		GELC
Buckman Diversion SW	7/15/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB		GELC
Buckman Diversion SW	7/15/09	Xylene(1,3 and 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	L LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/15/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	R	V%	FTB	GELC
Buckman Diversion SW	7/15/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	7/15/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	V%	FTB	GELC
Buckman Diversion SW	7/15/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	V%	FTB	GELC
Buckman Diversion SW	7/15/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	107-12-0	Propionitrile	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	UJ	V%	FTB	GELC
Buckman Diversion SW	7/15/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	L LAB	FTB	GELC
Buckman Diversion SW	7/15/09	Xylene(1,3 and 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	L LAB	FTB	GELC

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	07/15/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	62-53-3	Aniline	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	07/15/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.8	ug/L	U	R	SV7b	GELC
Buckman Diversion SW	07/15/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	92-87-5	Benzidine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	21.5	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	07/15/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	07/15/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	21.5	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	07/15/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	07/15/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	78-59-1	Isophorone	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	108-95-2	Phenol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	110-86-1	Pyridine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	07/15/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	07/15/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.22	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code	Fld Qc Type Code
Buckman Diversion SW	7/15/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB	GELC	
Buckman Diversion SW	7/15/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.102	ug/L	0.034	U	U	U_LAB	GELC	

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code	Fld Qc Type Code
Buckman Diversion SW	07/15/09	1336-36-3	Total PCB	EPA:1668A	F		0.00027400	ug/L	0.0000542				ALTC	
Buckman Diversion SW	07/15/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000587	ug/L	0.0000532	B	U	CB4	ALTC	
Buckman Diversion SW	07/15/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00005410	ug/L	0.0000541	U	U	U_LAB	ALTC	FB

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	07/15/09	ALK-CO3	EPA:310.1	UF		1.04	mg/L	0.73			GELC		
Buckman Diversion SW	07/15/09	ALK-CO3+HCO3	EPA:310.1	UF		98.9	mg/L	0.73			GELC		
Buckman Diversion SW	07/15/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U	GELC		
Buckman Diversion SW	07/15/09	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	0.002	U	U	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Ca	SW-846:6010B	UF		41.6	mg/L	0.05			GELC		
Buckman Diversion SW	07/15/09	Ca	SW-846:6010B	F		35.2	mg/L	0.05			GELC		
Buckman Diversion SW	07/15/09	Cl(-1)	EPA:300.0	UF		3.68	mg/L	0.066			GELC	250	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	ClO4	SW-846:6850	UF		0.06	ug/L	0.05	J	J	GELC		
Buckman Diversion SW	07/15/09	DO	Generic Field Measurement	UF		6.56	mg/L				FLD		
Buckman Diversion SW	07/15/09	F(-1)	EPA:300.0	UF		0.333	mg/L	0.033			GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	HARDNESS	SM:A2340B	UF		134.0	mg/L	0.35			GELC		
Buckman Diversion SW	07/15/09	HARDNESS	SM:A2340B	F		114.0	mg/L	0.35			GELC		
Buckman Diversion SW	07/15/09	K	SW-846:6010B	UF		3.2	mg/L	0.05			GELC		
Buckman Diversion SW	07/15/09	K	SW-846:6010B	F		2.6	mg/L	0.05			GELC		
Buckman Diversion SW	07/15/09	Mg	SW-846:6010B	F		6.4	mg/L	0.085			GELC		
Buckman Diversion SW	07/15/09	Mg	SW-846:6010B	UF		7.3	mg/L	0.085			GELC		
Buckman Diversion SW	07/15/09	NH3-N	EPA:350.1	UF		0.03	mg/L	0.016	J	J-	GELC		
Buckman Diversion SW	07/15/09	NO3+NO2-N	EPA:353.2	UF	<	0.0108	mg/L	0.01	J	U	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	07/15/09	Na	SW-846:6010B	UF		15.8	mg/L	0.10			GELC		
Buckman Diversion SW	07/15/09	Na	SW-846:6010B	F		15.9	mg/L	0.10			GELC		
Buckman Diversion SW	07/15/09	ORP	Generic Field Measurement	UF		83	mV				FLD		
Buckman Diversion SW	07/15/09	PO4-P	EPA:365.4	UF		0.24	mg/L	0.02			GELC		
Buckman Diversion SW	07/15/09	SO4(-2)	EPA:300.0	UF		43.8	mg/L	0.2			GELC	250	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		278	uS/cm				FLD		
Buckman Diversion SW	07/15/09	SPEC_CONDC	EPA:120.1	UF		304	uS/cm	1			GELC		
Buckman Diversion SW	07/15/09	SSC	EPA:160.2	UF		117	mg/L	3.2			GELC		
Buckman Diversion SW	07/15/09	TDS	EPA:160.1	UF		203	mg/L	2.4		J	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	TEMP	GENERIC FIELD TEMP	UF		22.0	deg C				FLD		
Buckman Diversion SW	07/15/09	TKN	EPA:351.2	UF		0.46	mg/L	0.033			GELC		
Buckman Diversion SW	07/15/09	TOC	SW-846:9060	UF		4.1	mg/L	0.33			GELC		
Buckman Diversion SW	07/15/09	TURB	EPA:180.1	UF		83.8	NTU	0.5	H	J-	GELC		
Buckman Diversion SW	07/15/09	pH	EPA:150.1	UF		8.37	SU	0.01	H	J-	GELC	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	07/15/09	pH	GENERIC FIELD PH	UF		7.82	SU				FLD	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	07/15/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	200	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Al	SW-846:6010B	UF		2570	ug/L	68			200	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	As	SW-846:6020	UF	<	3.14	ug/L	1.5	J	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	B	SW-846:6010B	F		28.5	ug/L	15	J	J			GELC
Buckman Diversion SW	07/15/09	B	SW-846:6010B	UF		32.1	ug/L	15	J	J			GELC
Buckman Diversion SW	07/15/09	Ba	SW-846:6010B	F		62.5	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Ba	SW-846:6010B	UF		98	ug/L	1			2000	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U			GELC
Buckman Diversion SW	07/15/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U			GELC
Buckman Diversion SW	07/15/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Cr	SW-846:6020	UF		4.39	ug/L	2.5	J	J	100	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Cu	SW-846:6010B	F		5.54	ug/L	3	J	J	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	300	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Fe	SW-846:6010B	UF		1790	ug/L	30			300	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Mn	SW-846:6010B	F		3.48	ug/L	2	J	J	50	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Mn	SW-846:6010B	UF		115	ug/L	2			50	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Mo	SW-846:6020	F		3.76	ug/L	0.1					GELC
Buckman Diversion SW	07/15/09	Mo	SW-846:6020	UF		3.77	ug/L	0.1					GELC
Buckman Diversion SW	07/15/09	Ni	SW-846:6020	F		2.0	ug/L	0.5					GELC
Buckman Diversion SW	07/15/09	Ni	SW-846:6020	UF		5.4	ug/L	0.5					GELC
Buckman Diversion SW	07/15/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Pb	SW-846:6020	UF		2.54	ug/L	0.5			15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	SiO2	SW-846:6010B	UF		32	mg/L	0.05					GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Buckman Diversion SW	07/15/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U			GELC
Buckman Diversion SW	07/15/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			GELC
Buckman Diversion SW	07/15/09	Sr	SW-846:6010B	F		275	ug/L	1					GELC
Buckman Diversion SW	07/15/09	Sr	SW-846:6010B	UF		296.0	ug/L	1					GELC
Buckman Diversion SW	07/15/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	U	SW-846:6020	F		1.3	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	U	SW-846:6020	UF		1.57	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Buckman Diversion SW	07/15/09	V	SW-846:6010B	F		3.29	ug/L	1	J	J			GELC
Buckman Diversion SW	07/15/09	V	SW-846:6010B	UF		7.76	ug/L	1					GELC
Buckman Diversion SW	07/15/09	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	5000	EPA SEC DW LVL	GELC
Buckman Diversion SW	07/15/09	Zn	SW-846:6010B	UF		7.73	ug/L	3.3	J	J	5000	EPA SEC DW LVL	GELC

Laboratory Report for

Los Alamos National Laboratory

Request # 09-2664

(Samples: CAWR-09)

July 31, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

July 31, 2009

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545-0600

Re: DBS&A Laboratory Report for LANL Request # 09-2664; CAWR-09 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-2664; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, each received in one water filled 1-gallon jug, were air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 505-822-9400

Albuquerque, NM 87109 FAX 505-822-8877

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-10824																X						
CAWR-09-10830																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-10824	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-10830	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-10824	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-10830	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0147.00
Sample Number: CAWR-09-10824
Request Number: 09-2664
Depth: NA
Test Date: 27-Jul-09

Initial Dry Weight of Sample (g): 1.06
Weight Passing #10 (g): 1.06
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.10
Calculated Weight of Sieve Sample (g): 0.10

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	1.06	100.00
	2"	50	0.00	0.00	1.06	100.00
	1.5"	38.1	0.00	0.00	1.06	100.00
	1"	25	0.00	0.00	1.06	100.00
	3/4"	19.0	0.00	0.00	1.06	100.00
	3/8"	9.5	0.00	0.00	1.06	100.00
	4	4.75	0.00	0.00	1.06	100.00
	10	2.00	0.00	0.00	1.06	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.10	100.00
	40	0.425	0.00	0.00	0.10	100.00
	60	0.250	0.00	0.00	0.10	100.00
	140	0.106	0.03	0.03	0.07	70.00
	200	0.075	0.04	0.07	0.03	30.00
	dry pan		0.03	0.10	0.00	
	wet pan			0.00	0.00	

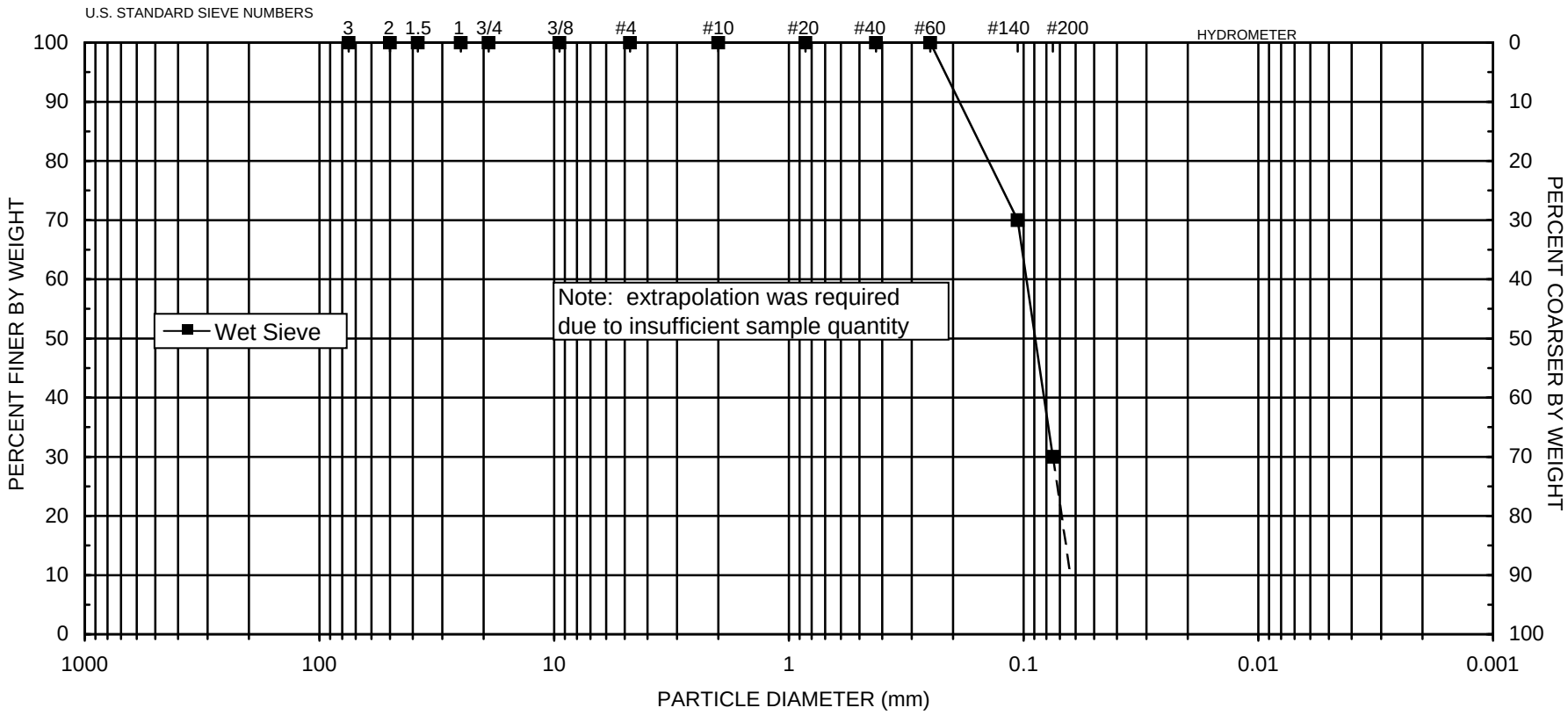
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

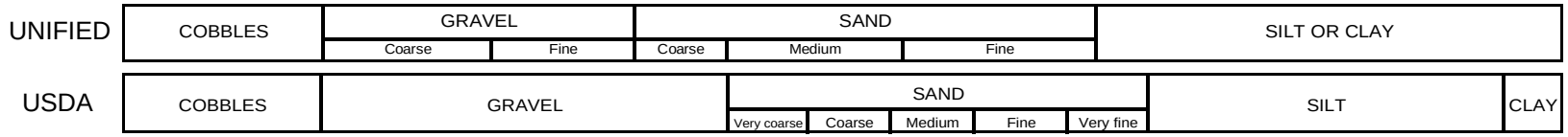
Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines





d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-10824	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0147.00
Sample Number: CAWR-09-10830
Request Number: 09-2664
Depth: NA
Test Date: 27-Jul-09

Initial Dry Weight of Sample (g): 0.72
Weight Passing #10 (g): 0.72
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.06
Calculated Weight of Sieve Sample (g): 0.06

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.72	100.00
	2"	50	0.00	0.00	0.72	100.00
	1.5"	38.1	0.00	0.00	0.72	100.00
	1"	25	0.00	0.00	0.72	100.00
	3/4"	19.0	0.00	0.00	0.72	100.00
	3/8"	9.5	0.00	0.00	0.72	100.00
	4	4.75	0.00	0.00	0.72	100.00
	10	2.00	0.00	0.00	0.72	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.06	100.00
	40	0.425	0.00	0.00	0.06	100.00
	60	0.250	0.00	0.00	0.06	100.00
	140	0.106	0.02	0.02	0.04	66.67
	200	0.075	0.03	0.05	0.01	16.67
	dry pan		0.01	0.06	0.00	
	wet pan			0.00	0.00	

d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
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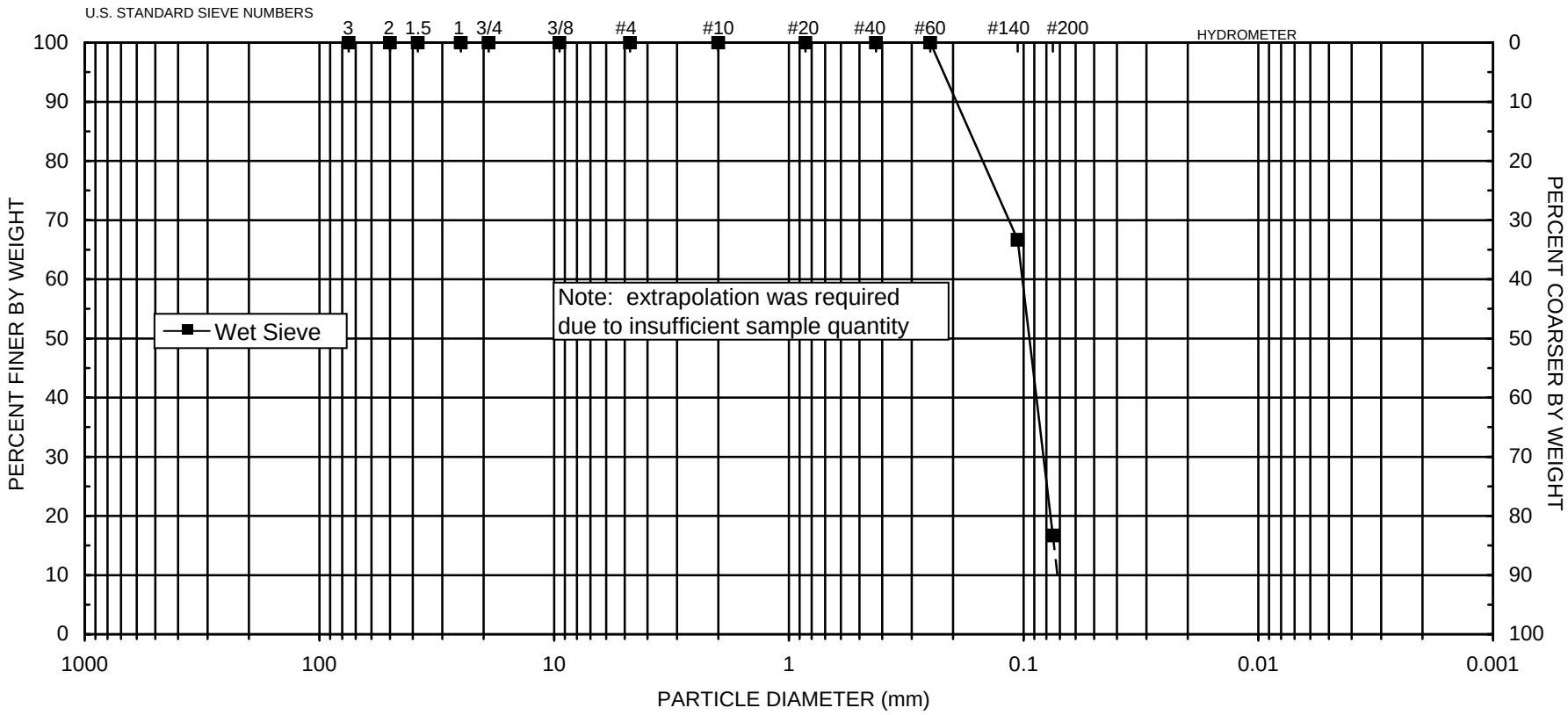


UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-10830	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C84	The sample result is ≤<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confimed on a second dissimilar column or diode array spectrums do not match librai
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremer
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered is
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the N
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performe
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75%
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'--DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluate
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missinc
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	9/22/09	Am-241	HASL-300:AM-241	UF	<	0.006	pCi/L	0.004	0.041	U	U		GELC		
Buckman Diversion SW	9/22/09	Am-241	HASL-300:AM-241	F	<	-0.003	pCi/L	0.003	0.037	U	U		GELC		
Buckman Diversion SW	9/22/09	Co-60	EPA:901.1	UF	<	2.11	pCi/L	1.1	4.2	U	U		GELC		
Buckman Diversion SW	9/22/09	Co-60	EPA:901.1	F	<	-1.07	pCi/L	1.3	4.1	U	U		GELC		
Buckman Diversion SW	9/22/09	Cs-137	EPA:901.1	UF	<	-0.56	pCi/L	1.1	3.6	U	U		GELC		
Buckman Diversion SW	9/22/09	Cs-137	EPA:901.1	F	<	1.88	pCi/L	1.4	4.9	U	U		GELC		
Buckman Diversion SW	9/22/09	GROSSA	EPA:900	F	<	3.05	pCi/L	1.1	2.8		U		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	GROSSA	EPA:900	UF		5.98	pCi/L	0.8	1.1				GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	GROSSB	EPA:900	UF		7.46	pCi/L	1.5	3.8				GELC	50	EPA SEC DW LVL
Buckman Diversion SW	9/22/09	GROSSB	EPA:900	F		8.89	pCi/L	1.6	3.9				GELC	50	EPA SEC DW LVL
Buckman Diversion SW	9/22/09	GROSSG	EPA:901.1	F	<	9.2	pCi/L	24	53	U	U		GELC		
Buckman Diversion SW	9/22/09	GROSSG	EPA:901.1	UF	<	11.3	pCi/L	4.8	14	U	U		GELC		
Buckman Diversion SW	9/22/09	H-3	Generic:Low_Level_Tritium	UF		16.6	pCi/L	0.54	0.29				UMTL	20,000	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	K-40	EPA:901.1	UF	<	3.8	pCi/L	17	62	U	U		GELC		
Buckman Diversion SW	9/22/09	K-40	EPA:901.1	F	<	-2.09	pCi/L	18	57	U	U		GELC		
Buckman Diversion SW	9/22/09	Na-22	EPA:901.1	UF	<	0.008	pCi/L	1.3	4.3	U	U		GELC		
Buckman Diversion SW	9/22/09	Na-22	EPA:901.1	F	<	0.763	pCi/L	1.0	3.7	U	U		GELC		
Buckman Diversion SW	9/22/09	Np-237	EPA:901.1	F	<	-37.5	pCi/L	12	33	U	U		GELC		
Buckman Diversion SW	9/22/09	Np-237	EPA:901.1	UF	<	1.63	pCi/L	8.9	28	U	U		GELC		
Buckman Diversion SW	9/22/09	Pu-238	HASL-300:ISOPU	UF	<	0.002	pCi/L	0.009	0.037	U	U		GELC		
Buckman Diversion SW	9/22/09	Pu-238	HASL-300:ISOPU	F	<	0.004	pCi/L	0.011	0.035	U	U		GELC		
Buckman Diversion SW	9/22/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.004	pCi/L	0.008	0.036	U	U		GELC		
Buckman Diversion SW	9/22/09	Pu-239/240	HASL-300:ISOPU	F	<	0.002	pCi/L	0.006	0.034	U	U		GELC		
Buckman Diversion SW	9/22/09	Ra-226	EPA:903.1	F	<	0.187	pCi/L	0.11	0.34	U	U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-226	EPA:903.1	UF	<	0.155	pCi/L	0.07	0.19	U	U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-228	EPA:904	F	<	1.14	pCi/L	0.33	0.85		U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-228	EPA:904	UF	<	0.246	pCi/L	0.22	0.76	U	U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Sr-90	EPA:905.0	UF	<	0.149	pCi/L	0.14	0.49	U	U		GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Sr-90	EPA:905.0	F	<	0.149	pCi/L	0.10	0.33	U	U		GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Th-228	HASL-300:ISOTH	F	<	-0.015	pCi/L	0.010	0.066	U	U		GELC		
Buckman Diversion SW	9/22/09	Th-228	HASL-300:ISOTH	UF		0.086	pCi/L	0.020	0.073				GELC		
Buckman Diversion SW	9/22/09	Th-230	HASL-300:ISOTH	F	<	-0.003	pCi/L	0.003	0.083	U	U		GELC		
Buckman Diversion SW	9/22/09	Th-230	HASL-300:ISOTH	UF	<	0.030	pCi/L	0.010	0.093	U	U		GELC		
Buckman Diversion SW	9/22/09	Th-232	HASL-300:ISOTH	F	<	0.002	pCi/L	0.004	0.039	U	U		GELC		
Buckman Diversion SW	9/22/09	Th-232	HASL-300:ISOTH	UF	<	0.034	pCi/L	0.010	0.044	U	U		GELC		
Buckman Diversion SW	9/22/09	U-234	HASL-300:ISOU	UF		1.44	pCi/L	0.110	0.064				GELC		
Buckman Diversion SW	9/22/09	U-234	HASL-300:ISOU	F		1.36	pCi/L	0.100	0.063				GELC		
Buckman Diversion SW	9/22/09	U-235/236	HASL-300:ISOU	UF		0.055	pCi/L	0.013	0.033				GELC		
Buckman Diversion SW	9/22/09	U-235/236	HASL-300:ISOU	F		0.055	pCi/L	0.012	0.032				GELC		
Buckman Diversion SW	9/22/09	U-238	HASL-300:ISOU	F		0.875	pCi/L	0.072	0.039				GELC		
Buckman Diversion SW	9/22/09	U-238	HASL-300:ISOU	UF		0.852	pCi/L	0.070	0.039				GELC		
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Uncert**	**Std Mda**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scrn Lvl Type Code**
Buckman Diversion SW	9/22/09	Am-241	HASL-300:AM-241	UF	<	0.004	pCi/L	0.012	0.040	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Am-241	HASL-300:AM-241	F	<	-0.001	pCi/L	0.003	0.035	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Co-60	EPA:901.1	UF	<	1.56	pCi/L	1.3	4.6	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Co-60	EPA:901.1	F	<	0.889	pCi/L	1.3	4.5	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Cs-137	EPA:901.1	UF	<	1.03	pCi/L	2.2	4.3	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Cs-137	EPA:901.1	F	<	1.32	pCi/L	1.5	5.0	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	GROSSA	EPA:900	F		3.63	pCi/L	1.2	2.7			FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	GROSSA	EPA:900	UF		4.81	pCi/L	0.82	1.7			FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	GROSSB	EPA:900	UF		4.81	pCi/L	1.0	2.2			FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	9/22/09	GROSSB	EPA:900	F		2.96	pCi/L	0.81	2			FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	9/22/09	GROSSG	EPA:901.1	UF	<	10.3	pCi/L	11	25	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	GROSSG	EPA:901.1	F	<	19.8	pCi/L	15	45	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	H-3	Generic:Low_Level_Tritium	UF		16.2	pCi/L	0.54	0.29			FD	UMTL	20,000	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	K-40	EPA:901.1	F	<	-5.37	pCi/L	18	56	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	K-40	EPA:901.1	UF	<	8.24	pCi/L	15	51	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Na-22	EPA:901.1	UF	<	-0.615	pCi/L	1.0	3.3	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Na-22	EPA:901.1	F	<	0.138	pCi/L	1.1	3.7	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Np-237	EPA:901.1	F	<	15.4	pCi/L	11	34	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Np-237	EPA:901.1	UF	<	-2.28	pCi/L	9.3	28	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Pu-238	HASL-300:ISOPU	UF	<	-0.002	pCi/L	0.004	0.041	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Pu-238	HASL-300:ISOPU	F	<	0.002	pCi/L	0.003	0.029	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Pu-239/240	HASL-300:ISOPU	UF	<	-0.005	pCi/L	0.007	0.040	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Pu-239/240	HASL-300:ISOPU	F	<	-0.004	pCi/L	0.004	0.028	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Ra-226	EPA:903.1	F	<	0.145	pCi/L	0.10	0.34	U	U	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-226	EPA:903.1	UF	<	0.319	pCi/L	0.11	0.30		U	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-228	EPA:904	UF	<	0.689	pCi/L	0.25	0.71	U	U	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Ra-228	EPA:904	F	<	0.818	pCi/L	0.25	0.61		U	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Sr-90	EPA:905.0	F	<	-0.101	pCi/L	0.13	0.49	U	U	FD	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Sr-90	EPA:905.0	UF	<	-0.149	pCi/L	0.12	0.49	U	U	FD	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	9/22/09	Th-228	HASL-300:ISOTH	UF		0.102	pCi/L	0.024	0.099			FD	GELC		
Buckman Diversion SW	9/22/09	Th-228	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.005	0.069	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Th-230	HASL-300:ISOTH	F	<	-0.005	pCi/L	0.004	0.087	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Th-230	HASL-300:ISOTH	UF	<	0.044	pCi/L	0.019	0.120	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	Th-232	HASL-300:ISOTH	UF		0.074	pCi/L	0.023	0.059			FD	GELC		
Buckman Diversion SW	9/22/09	Th-232	HASL-300:ISOTH	F	<	0.000	pCi/L	0.004	0.041	U	U	FD	GELC		
Buckman Diversion SW	9/22/09	U-234	HASL-300:ISOU	F		1.34	pCi/L	0.10	0.060			FD	GELC		
Buckman Diversion SW	9/22/09	U-234	HASL-300:ISOU	UF		1.36	pCi/L	0.11	0.063			FD	GELC		
Buckman Diversion SW	9/22/09	U-235/236	HASL-300:ISOU	F		0.051	pCi/L	0.012	0.031			FD	GELC		
Buckman Diversion SW	9/22/09	U-235/236	HASL-300:ISOU	UF		0.080	pCi/L	0.015	0.032			FD	GELC		
Buckman Diversion SW	9/22/09	U-238	HASL-300:ISOU	UF		0.940	pCi/L	0.076	0.039			FD	GELC		
Buckman Diversion SW	9/22/09	U-238	HASL-300:ISOU	F		0.905	pCi/L	0.073	0.037			FD	GELC		

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	67-64-1	Acetone	SW-846:8260B	UF		4.0	ug/L	J	J	J_LAB		GELC
Buckman Diversion SW	9/22/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	U	R	V7b		GELC
Buckman Diversion SW	9/22/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b		GELC
Buckman Diversion SW	9/22/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	9/22/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	9/22/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	9/22/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	U	R	V7b		GELC
Buckman Diversion SW	9/22/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b		GELC
Buckman Diversion SW	9/22/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	9/22/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	9/22/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	9/22/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	9/22/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	9/22/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	9/22/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	9/22/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	9/22/09	67-64-1	Acetone	SW-846:8260B	UF		3.8	ug/L	J	J	J_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	U	R	V7b	FD	GELC
Buckman Diversion SW	9/22/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b	FD	GELC
Buckman Diversion SW	9/22/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c	FD	GELC
Buckman Diversion SW	9/22/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	UJ	V7c	FD	GELC
Buckman Diversion SW	9/22/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	UJ	V7c	FD	GELC
Buckman Diversion SW	9/22/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	U	R	V7b	FD	GELC
Buckman Diversion SW	9/22/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	U	R	V7b	FD	GELC
Buckman Diversion SW	9/22/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	U	U	U_LAB	FD	GELC

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	62-53-3	Aniline	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.8	ug/L	U	R	SVTb		GELC
Buckman Diversion SW	9/22/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	92-87-5	Benzidine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	0.23	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	0.58	ug/L	J	J	SVTv		GELC
Buckman Diversion SW	9/22/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	21.5	ug/L	U	UJ	SVTv		GELC
Buckman Diversion SW	9/22/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	101-55-3	4-Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-47-8	4-Chloroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	7005-72-3	4-Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	2.2	ug/L	J	J	SVTv		GELC
Buckman Diversion SW	9/22/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SVTv		GELC
Buckman Diversion SW	9/22/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	21.5	ug/L	U	UJ	SVTv		GELC
Buckman Diversion SW	9/22/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SVTc		GELC
Buckman Diversion SW	9/22/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	0.75	ug/L	J	J	SVTv		GELC
Buckman Diversion SW	9/22/09	78-59-1	Isophorone	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.8	ug/L	U	UJ	SVTc		GELC
Buckman Diversion SW	9/22/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	108-95-2	Phenol	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.08	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	110-86-1	Pyridine	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	62-53-3	Aniline	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	11.1	ug/L	U	R	SVTb	FD	GELC
Buckman Diversion SW	9/22/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	92-87-5	Benzidine	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.11	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	22.2	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	101-55-3	4-Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	59-50-7	4-Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	91-58-7	2-Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-57-8	2-Chlorophenol[2-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	7005-72-3	4-Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.8	ug/L	J	J	SVTv	FD	GELC
Buckman Diversion SW	9/22/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	11.1	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	22.2	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	11.1	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	0.28	ug/L	J	J	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	78-59-1	Isophorone	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	11.1	ug/L	U	UJ	SVTc	FD	GELC
Buckman Diversion SW	9/22/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	108-95-2	Phenol	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.11	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	110-86-1	Pyridine	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	11.1	ug/L	U	U	U_LAB	FD	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.044	ug/L	U	UJ	P7c		GELC
Buckman Diversion SW	9/22/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.044	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.022	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.222	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.556	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	U	UJ	P7c	FD	GELC
Buckman Diversion SW	9/22/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.043	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.213	ug/L	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.532	ug/L	U	U	U_LAB	FD	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	U_LAB		GELC
Buckman Diversion SW	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC
Buckman Diversion SW	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.035	U	U	U_LAB	FD	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	9/22/09	1336-36-3	Total PCB	EPA:1668A	F		0.0000433	ug/L	NA[1]					ALTC
Buckman Diversion SW	9/22/09	1336-36-3	Total PCB	EPA:1668A	F		0.0000841	ug/L	NA[1]				FD	ALTC
Buckman Diversion SW	9/22/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000591	ug/L	NA[1]	U	U	U_LAB		ALTC
Buckman Diversion SW	9/22/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000553	ug/L	NA[1]	U	U	U_LAB	FD	ALTC
Buckman Diversion SW	9/22/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000539	ug/L	NA[1]	U	U	U_LAB	PEB	ALTC

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	09/22/09	ALK-CO3	EPA:310.1	UF		1.06	mg/L	0.73				GELC		
Buckman Diversion SW	09/22/09	ALK-CO3+HCO3	EPA:310.1	UF		183	mg/L	0.73				GELC		
Buckman Diversion SW	09/22/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U		GELC		
Buckman Diversion SW	09/22/09	CN(TOTAL)	EPA:335.4	UF	<	0.01	mg/L	0.002	U	U		GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Ca	SW-846:6010B	F		37.7	mg/L	0.05				GELC		
Buckman Diversion SW	09/22/09	Ca	SW-846:6010B	UF		39.6	mg/L	0.05				GELC		
Buckman Diversion SW	09/22/09	Cl(-1)	EPA:300.0	UF		5.52	mg/L	0.066				GELC	250	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	ClO4	SW-846:6850	UF		0.073	ug/L	0.05	J	J		GELC		
Buckman Diversion SW	09/22/09	DO	Generic Field Measurement	UF		9.15	mg/L					FLD		
Buckman Diversion SW	09/22/09	F(-1)	EPA:300.0	UF		0.43	mg/L	0.033				GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	HARDNESS	SM:A2340B	UF		132	mg/L	0.35				GELC		
Buckman Diversion SW	09/22/09	HARDNESS	SM:A2340B	F		122	mg/L	0.35				GELC		
Buckman Diversion SW	09/22/09	K	SW-846:6010B	UF		3.8	mg/L	0.05				GELC		
Buckman Diversion SW	09/22/09	K	SW-846:6010B	F		2.7	mg/L	0.05				GELC		
Buckman Diversion SW	09/22/09	Mg	SW-846:6010B	UF		8.0	mg/L	0.085				GELC		
Buckman Diversion SW	09/22/09	Mg	SW-846:6010B	F		6.8	mg/L	0.085				GELC		
Buckman Diversion SW	09/22/09	NH3-N	EPA:350.1	UF	<	0.02	mg/L	0.016	J	U		GELC		
Buckman Diversion SW	09/22/09	NO3+NO2-N	EPA:353.2	UF	<	0.05	mg/L	0.01	U	U		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Na	SW-846:6010B	UF		20.1	mg/L	0.10				GELC		
Buckman Diversion SW	09/22/09	Na	SW-846:6010B	F		20.2	mg/L	0.10				GELC		
Buckman Diversion SW	09/22/09	ORP	Generic Field Measurement	UF		295	mV					FLD		
Buckman Diversion SW	09/22/09	PO4-P	EPA:365.4	UF	<	0.11	mg/L	0.02		U		GELC		
Buckman Diversion SW	09/22/09	SO4(-2)	EPA:300.0	UF		36.7	mg/L	0.2				GELC	250	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		285	uS/cm					FLD		
Buckman Diversion SW	09/22/09	SPEC_CONDC	EPA:120.1	UF		330	uS/cm	1				GELC		
Buckman Diversion SW	09/22/09	SSC	EPA:160.2	UF		84.7	mg/L	3.8				GELC		
Buckman Diversion SW	09/22/09	TDS	EPA:160.1	UF		213	mg/L	2.4				GELC	500	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	TEMP	GENERIC FIELD TEMP	UF		14.6	deg C					FLD		
Buckman Diversion SW	09/22/09	TKN	EPA:351.2	UF	<	0.37	mg/L	0.033		U		GELC		
Buckman Diversion SW	09/22/09	TOC	SW-846:9060	UF		2.6	mg/L	0.33				GELC		
Buckman Diversion SW	09/22/09	TURB	GENERIC FIELD TURB	UF		89.3	NTU					FLD		
Buckman Diversion SW	09/22/09	pH	EPA:150.1	UF		8.38	SU	0.01	H	J-		GELC	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	pH	GENERIC FIELD PH	UF		8.04	SU					FLD	6.5-8.5	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Buckman Diversion SW	09/22/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	FD	GELC		
Buckman Diversion SW	09/22/09	ALK-CO3+HCO3	EPA:310.1	UF		121	mg/L	0.73			FD	GELC		
Buckman Diversion SW	09/22/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U	FD	GELC		
Buckman Diversion SW	09/22/09	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.002	U	U	FD	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Ca	SW-846:6010B	UF		36.4	mg/L	0.05			FD	GELC		
Buckman Diversion SW	09/22/09	Ca	SW-846:6010B	F		39.0	mg/L	0.05			FD	GELC		
Buckman Diversion SW	09/22/09	Cl(-1)	EPA:300.0	UF		5.54	mg/L	0.066			FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	ClO4	SW-846:6850	UF		0.073	ug/L	0.05	J	J	FD	GELC		
Buckman Diversion SW	09/22/09	F(-1)	EPA:300.0	UF		0.42	mg/L	0.033			FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	HARDNESS	SM:A2340B	UF		118	mg/L	0.35			FD	GELC		
Buckman Diversion SW	09/22/09	HARDNESS	SM:A2340B	F		130	mg/L	0.35			FD	GELC		
Buckman Diversion SW	09/22/09	K	SW-846:6010B	F		3.75	mg/L	0.05			FD	GELC		
Buckman Diversion SW	09/22/09	K	SW-846:6010B	UF		2.58	mg/L	0.05			FD	GELC		
Buckman Diversion SW	09/22/09	Mg	SW-846:6010B	F		7.9	mg/L	0.085			FD	GELC		
Buckman Diversion SW	09/22/09	Mg	SW-846:6010B	UF		6.5	mg/L	0.085			FD	GELC		
Buckman Diversion SW	09/22/09	NH3-N	EPA:350.1	UF	<	0.06	mg/L	0.016		U	FD	GELC		
Buckman Diversion SW	09/22/09	NO3+NO2-N	EPA:353.2	UF	<	0.05	mg/L	0.01	U	U	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Na	SW-846:6010B	UF		19	mg/L	0.1			FD	GELC		
Buckman Diversion SW	09/22/09	Na	SW-846:6010B	F		19	mg/L	0.1			FD	GELC		
Buckman Diversion SW	09/22/09	PO4-P	EPA:365.4	UF	<	0.06	mg/L	0.015		U	FD	GELC		
Buckman Diversion SW	09/22/09	SO4(-2)	EPA:300.0	UF		37.5	mg/L	0.2			FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	SPEC_CONDC	EPA:120.1	UF		331	uS/cm	1			FD	GELC		
Buckman Diversion SW	09/22/09	SSC	EPA:160.2	UF		85.3	mg/L	3.8			FD	GELC		
Buckman Diversion SW	09/22/09	TDS	EPA:160.1	UF		210	mg/L	2.4			FD	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	TKN	EPA:351.2	UF	<	0.40	mg/L	0.033		U	FD	GELC		
Buckman Diversion SW	09/22/09	TOC	SW-846:9060	UF		2.31	mg/L	0.33			FD	GELC		
Buckman Diversion SW	09/22/09	pH	EPA:150.1	UF		8.38	SU	0.01	H	J-	FD	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	09/22/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Al	SW-846:6010B	UF		5210	ug/L	68				GELC	200	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U		GELC	200	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	As	SW-846:6020	UF		3.06	ug/L	1.5	J	J		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	B	SW-846:6010B	F		37.0	ug/L	15	J	J		GELC		
Buckman Diversion SW	09/22/09	B	SW-846:6010B	UF		40.5	ug/L	15	J	J		GELC		
Buckman Diversion SW	09/22/09	Ba	SW-846:6010B	UF		103	ug/L	1				GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Ba	SW-846:6010B	F		65.9	ug/L	1				GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U		GELC		
Buckman Diversion SW	09/22/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U		GELC		
Buckman Diversion SW	09/22/09	Cr	SW-846:6020	UF		2.82	ug/L	2.5	J	J		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cu	SW-846:6010B	UF		5.2	ug/L	3	J	J		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Fe	SW-846:6010B	UF		3360	ug/L	30				GELC	300	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U		GELC	300	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC	50	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Mn	SW-846:6010B	UF		123	ug/L	2				GELC	50	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Mo	SW-846:6020	F		6.75	ug/L	0.1				GELC		
Buckman Diversion SW	09/22/09	Mo	SW-846:6020	UF		6.96	ug/L	0.1				GELC		
Buckman Diversion SW	09/22/09	Ni	SW-846:6020	UF		4.0	ug/L	0.5				GELC		
Buckman Diversion SW	09/22/09	Ni	SW-846:6020	F		1.5	ug/L	0.5	J	J		GELC		
Buckman Diversion SW	09/22/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Pb	SW-846:6020	UF		2.5	ug/L	0.5				GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Sb	SW-846:6020	UF	<	0.75	ug/L	0.5	J	U		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	SiO2	SW-846:6010B	UF		46.3	mg/L	0.05				GELC		
Buckman Diversion SW	09/22/09	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U		GELC		
Buckman Diversion SW	09/22/09	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U		GELC		
Buckman Diversion SW	09/22/09	Sr	SW-846:6010B	F		289	ug/L	1				GELC		
Buckman Diversion SW	09/22/09	Sr	SW-846:6010B	UF		302	ug/L	1				GELC		
Buckman Diversion SW	09/22/09	Tl	SW-846:6020	UF	<	0.4	ug/L	0.3	J	U		GELC	2	EPA PRIM DW LVL

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code[1]		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	09/22/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	U	SW-846:6020	F		2.7	ug/L	0.05		J		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	U	SW-846:6020	UF		2.7	ug/L	0.05		J		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	V	SW-846:6010B	F		4.55	ug/L	1	J	J		GELC		
Buckman Diversion SW	09/22/09	V	SW-846:6010B	UF		11.1	ug/L	1				GELC		
Buckman Diversion SW	09/22/09	Zn	SW-846:6010B	UF	<	17	ug/L	3.3		U		GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Zn	SW-846:6010B	F	<	5.4	ug/L	3.3	J	U		GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	FD[1]	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	FD[1]	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Al	SW-846:6010B	F		5410	ug/L	68			FD[1]	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Al	SW-846:6010B	UF	<	200	ug/L	68	U	U	FD[1]	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	As	SW-846:6020	UF		2.29	ug/L	1.5	J	J	FD[1]	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	As	SW-846:6020	F		1.65	ug/L	1.5	J	J	FD[1]	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	B	SW-846:6010B	F		38.0	ug/L	15	J	J	FD[1]	GELC		
Buckman Diversion SW	09/22/09	B	SW-846:6010B	UF		34.7	ug/L	15	J	J	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Ba	SW-846:6010B	F		103	ug/L	1			FD[1]	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Ba	SW-846:6010B	UF		65.7	ug/L	1			FD[1]	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	FD[1]	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	FD[1]	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	FD[1]	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	FD[1]	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	FD[1]	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cr	SW-846:6020	UF	<	10	ug/L	2.5	U	U	FD[1]	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cu	SW-846:6010B	F		5.17	ug/L	3	J	J	FD[1]	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	FD[1]	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Fe	SW-846:6010B	UF	<	100	ug/L	30	U	U	FD[1]	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Fe	SW-846:6010B	F		3370	ug/L	30			FD[1]	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	FD[1]	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	FD[1]	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Mn	SW-846:6010B	UF	<	10	ug/L	2	U	U	FD[1]	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Mn	SW-846:6010B	F		123	ug/L	2			FD[1]	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Mo	SW-846:6020	F		6.87	ug/L	0.1			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Mo	SW-846:6020	UF		6.6	ug/L	0.1			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Ni	SW-846:6020	F		1.5	ug/L	0.5	J	J	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Ni	SW-846:6020	UF		4.09	ug/L	0.5			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Pb	SW-846:6020	UF		2.49	ug/L	0.5			FD[1]	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	FD[1]	GELC	15	EPA PRIM DW LVL

Notes:
[1]A mix-up occurred in the labeling of the filtered and unfiltered Field Duplicate (FD) samples. Filtered results are actually unfiltered; unfiltered results are filtered.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code[1]		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	09/22/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	FD[1]	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	FD[1]	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	FD[1]	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	FD[1]	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	SiO2	SW-846:6010B	UF		19.6	mg/L	0.053			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	FD[1]	GELC		
Buckman Diversion SW	09/22/09	Sr	SW-846:6010B	UF		275	ug/L	1			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Sr	SW-846:6010B	F		292	ug/L	1			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	FD[1]	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	FD[1]	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	U	SW-846:6020	F		2.67	ug/L	0.05		J	FD[1]	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	U	SW-846:6020	UF		2.76	ug/L	0.05		J	FD[1]	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	09/22/09	V	SW-846:6010B	UF		4.4	ug/L	1	J	J	FD[1]	GELC		
Buckman Diversion SW	09/22/09	V	SW-846:6010B	F		11	ug/L	1			FD[1]	GELC		
Buckman Diversion SW	09/22/09	Zn	SW-846:6010B	UF	<	5.7	ug/L	3.3	J	U	FD[1]	GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	09/22/09	Zn	SW-846:6010B	F	<	17	ug/L	3.3		U	FD[1]	GELC	5000	EPA SEC DW LVL

Notes:
[1]A mix-up occurred in the labeling of the filtered and unfiltered Field Duplicate (FD) samples. Filtered results are actually unfiltered; unfiltered results are filtered.

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance criteria.
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confirm
D	(D) (Organic) - The result for this analyte was reported from a dilution.
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment.
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC column were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC column were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded.
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to the reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a blank, since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are present.
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance.
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting limit.
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectroscpy result should be regarded as an uncertain identification due to spectral interferance.
SQ	(SQ) (Rad) - Gamma spectroscpy result should be regarded as an uncertain identification due to spectral interferance.
TI	(TI) (Rad) - Gamma spectroscpy result should be regarded as an uncertain identification due to spectral interferance.
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit.
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectroscpy result should be regarded as an uncertain identification.
UJ	(UJ) (Organic) Legacy CST lab code should not be used.
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less than symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this analyte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectroscpy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscpy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criterea.
UYZ	(UYZ) (Rad) - Result should be regarded as an uncertain identification due to spectral interferance.
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criterea.
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Laboratory Report for
Los Alamos National Laboratory

Request # 09-3308

(Samples: CAWR-09)

October 8, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

October 8, 2009

Keith Greene
Los Alamos National Laboratory
TA3 Building 271
MS K786
Droppoint 02U
Los Alamos, NM 87545-0600
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 09-3308; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-3308; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, which were received in water filled 1-gallon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
Soil Testing and Research Laboratory
5840 Osuna Rd., NE 505-889-7752
Albuquerque, NM 87109-2526 FAX 505-889-0258

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-12946																X						
CAWR-09-12951																X						
CAWR-09-12956																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-12946	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12951	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12956	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-12946	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12951	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12956	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12946
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.83
Weight Passing #10 (g): 0.83
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.83
Calculated Weight of Sieve Sample (g): 0.83

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.83	100.00
	2"	50	0.00	0.00	0.83	100.00
	1.5"	38.1	0.00	0.00	0.83	100.00
	1"	25	0.00	0.00	0.83	100.00
	3/4"	19.0	0.00	0.00	0.83	100.00
	3/8"	9.5	0.00	0.00	0.83	100.00
	4	4.75	0.00	0.00	0.83	100.00
	10	2.00	0.00	0.00	0.83	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.83	100.00
	40	0.425	0.01	0.01	0.82	98.80
	60	0.250	0.02	0.03	0.80	96.39
	140	0.106	0.04	0.07	0.76	91.57
	200	0.075	0.01	0.08	0.75	90.36
	dry pan		0.00	0.08	0.75	
	wet pan			0.75	0.00	

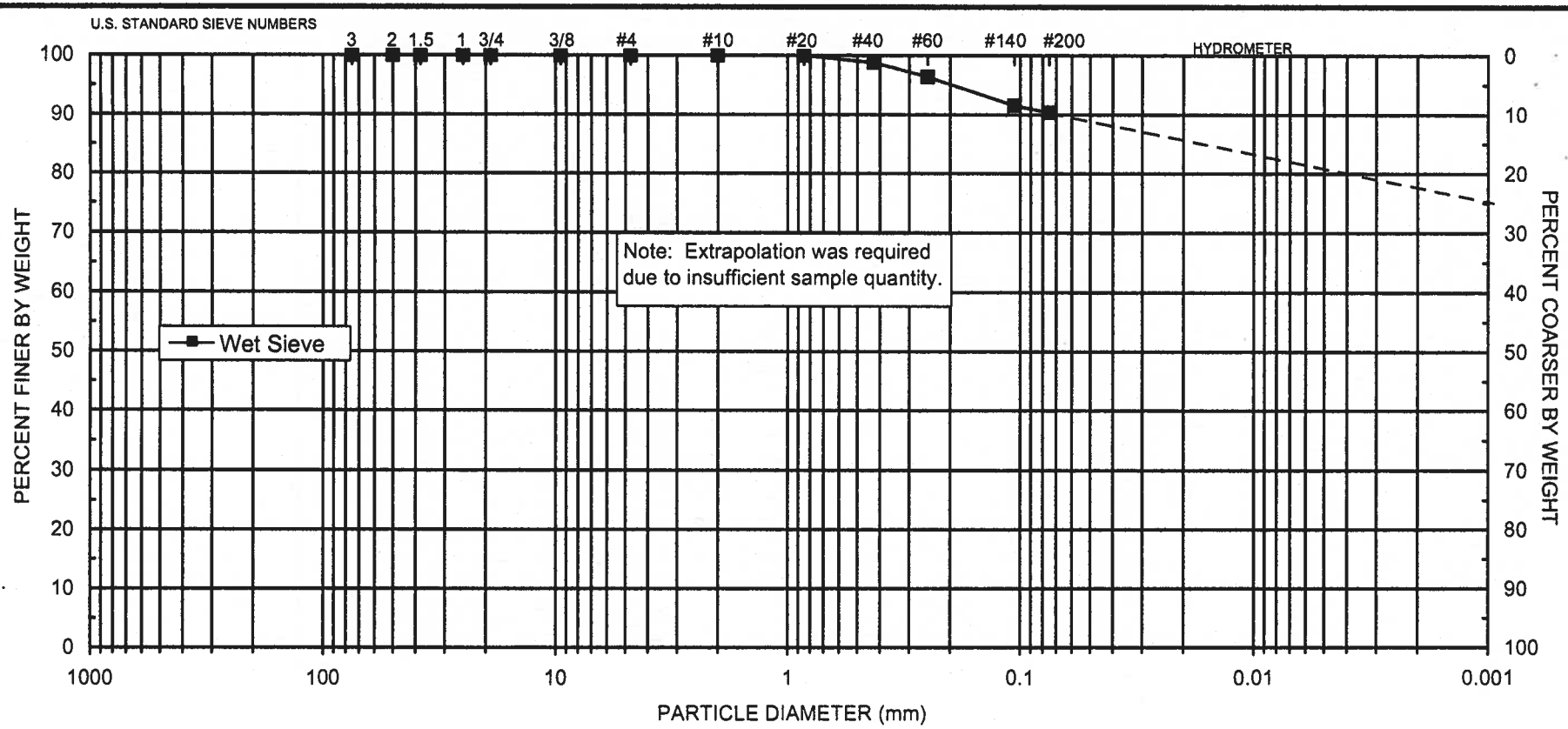
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12946	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12951
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.83
Weight Passing #10 (g): 0.83
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.83
Calculated Weight of Sieve Sample (g): 0.83

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.83	100.00
	2"	50	0.00	0.00	0.83	100.00
	1.5"	38.1	0.00	0.00	0.83	100.00
	1"	25	0.00	0.00	0.83	100.00
	3/4"	19.0	0.00	0.00	0.83	100.00
	3/8"	9.5	0.00	0.00	0.83	100.00
	4	4.75	0.00	0.00	0.83	100.00
	10	2.00	0.00	0.00	0.83	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.83	100.00
	40	0.425	0.01	0.01	0.82	98.80
	60	0.250	0.01	0.02	0.81	97.59
	140	0.106	0.04	0.06	0.77	92.77
	200	0.075	0.01	0.07	0.76	91.57
	dry pan		0.01	0.08	0.75	
	wet pan			0.75	0.00	

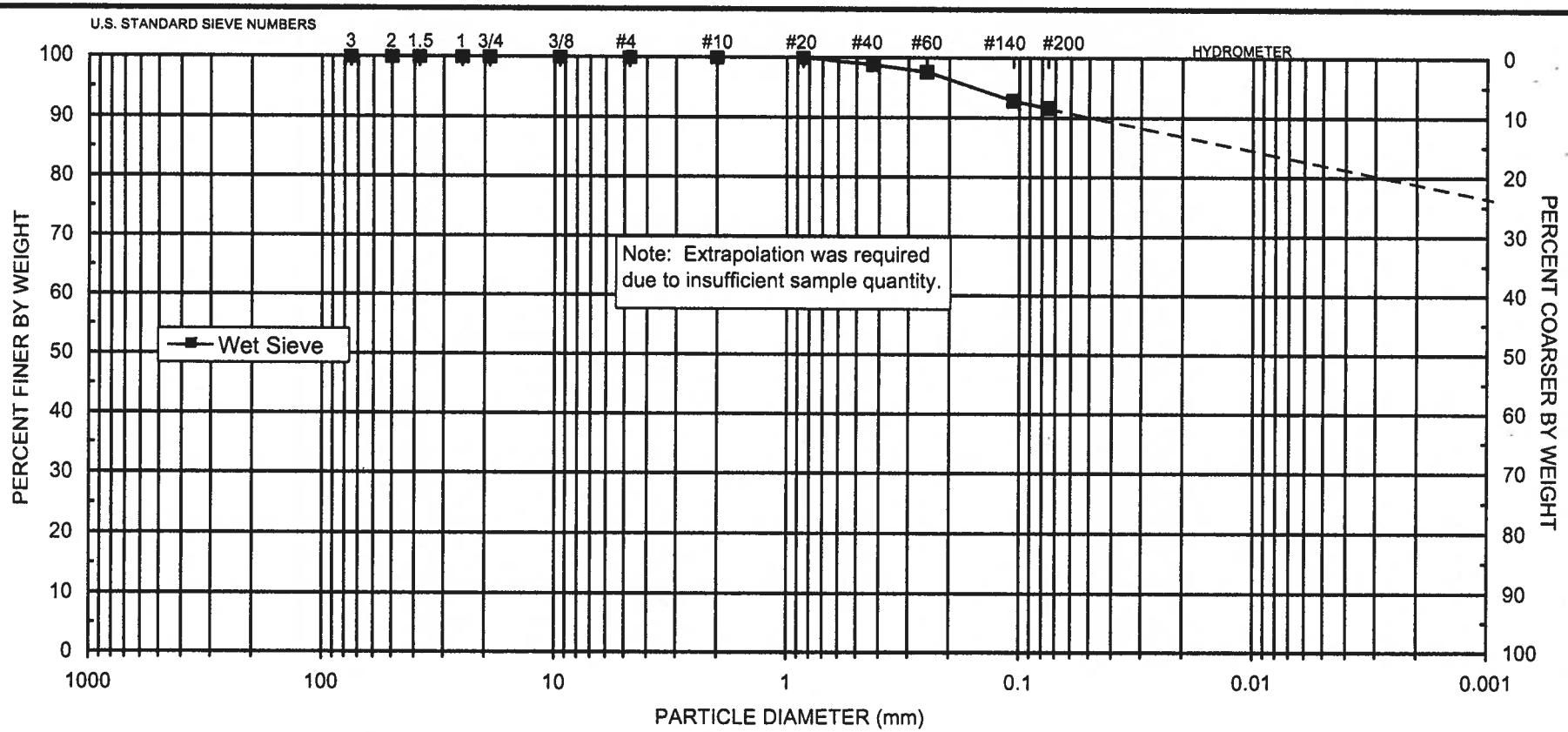
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc--[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter--[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY	
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12951	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12956
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.76
Weight Passing #10 (g): 0.76
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.76
Calculated Weight of Sieve Sample (g): 0.76

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.76	100.00
	2"	50	0.00	0.00	0.76	100.00
	1.5"	38.1	0.00	0.00	0.76	100.00
	1"	25	0.00	0.00	0.76	100.00
	3/4"	19.0	0.00	0.00	0.76	100.00
	3/8"	9.5	0.00	0.00	0.76	100.00
	4	4.75	0.00	0.00	0.76	100.00
	10	2.00	0.00	0.00	0.76	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.76	100.00
	40	0.425	0.00	0.00	0.76	100.00
	60	0.250	0.01	0.01	0.75	98.68
	140	0.106	0.03	0.04	0.72	94.74
	200	0.075	0.02	0.06	0.70	92.11
	dry pan		0.01	0.07	0.69	
	wet pan			0.69	0.00	

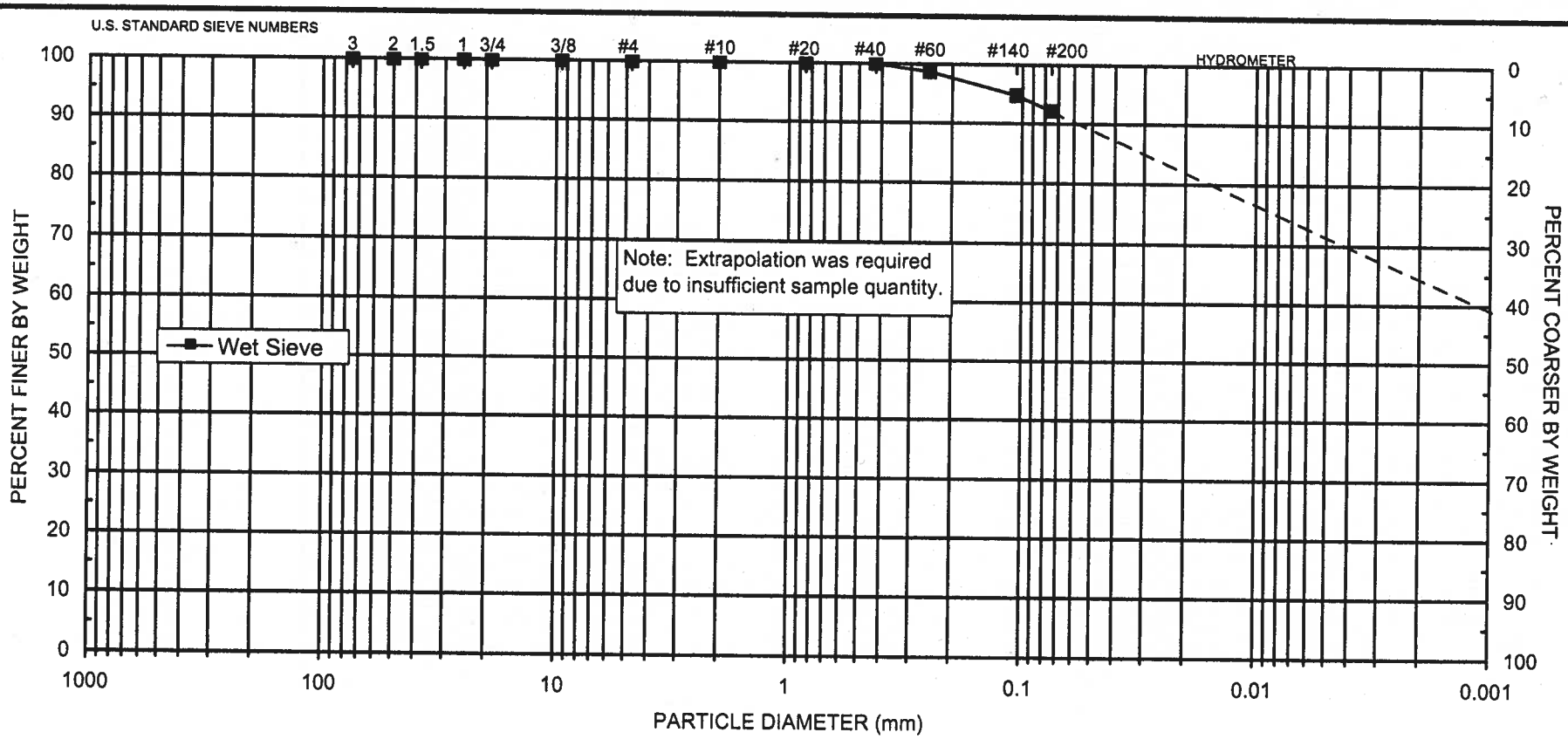
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY		
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY	

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12956	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis:	ASTM D422

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	11/17/09	Am-241	HASL-300:AM-241	F	<	-0.0115	pCi/L	0.032	0.007	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Am-241	HASL-300:AM-241	UF	<	-0.0154	pCi/L	0.033	0.007	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Co-60	EPA:901.1	F	<	0.661	pCi/L	3.5	1.0	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Co-60	EPA:901.1	UF	<	-1.99	pCi/L	3.9	1.4	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Cs-137	EPA:901.1	F	<	-1.35	pCi/L	4.0	1.4	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Cs-137	EPA:901.1	UF	<	-2.27	pCi/L	6.1	1.7	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	GROSSA	EPA:900	F	<	2.91	pCi/L	2.9	1.1		U	CAWR-10-4979	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	GROSSA	EPA:900	UF		3.73	pCi/L	2.6	1.2			CAWR-10-4978	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	GROSSB	EPA:900	F	<	1.55	pCi/L	2.9	0.89	U	U	CAWR-10-4979	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	GROSSB	EPA:900	UF		4.91	pCi/L	4.3	1.5			CAWR-10-4978	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	GROSSG	EPA:901.1	F	<	24.9	pCi/L	42	19	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	GROSSG	EPA:901.1	UF	<	16.6	pCi/L	40	17	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	H-3	Low_Level_Tritium	UF		15.97	pCi/L	0.54	0.287			CAWR-10-4978	UMTL	20,000	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	K-40	EPA:901.1	F	<	-38.9	pCi/L	44	15	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	K-40	EPA:901.1	UF	<	-6.1	pCi/L	59	18	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Na-22	EPA:901.1	F	<	-0.069	pCi/L	4.0	1.2	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Na-22	EPA:901.1	UF	<	0.254	pCi/L	4.1	1.2	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Np-237	EPA:901.1	F	<	-14.7	pCi/L	25	8.0	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Np-237	EPA:901.1	UF	<	-9.44	pCi/L	18	6.4	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Pu-238	HASL-300:ISOPU	F	<	0.00214	pCi/L	0.031	0.0021	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Pu-238	HASL-300:ISOPU	UF	<	-0.0018	pCi/L	0.027	0.0026	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Pu-239/240	HASL-300:ISOPU	F	<	0.009	pCi/L	0.034	0.0043	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.002	pCi/L	0.029	0.0031	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Ra-226	EPA:903.1	F		0.378	pCi/L	0.27	0.11			CAWR-10-4979	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Ra-226	EPA:903.1	UF	<	0.072	pCi/L	0.39	0.11	U	U	CAWR-10-4978	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Ra-228	EPA:904	F	<	0.471	pCi/L	0.90	0.28	U	U	CAWR-10-4979	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Ra-228	EPA:904	UF	<	0.280	pCi/L	0.88	0.26	U	U	CAWR-10-4978	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Sr-90	EPA:905.0	F	<	0.161	pCi/L	0.49	0.15	U	U	CAWR-10-4979	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Sr-90	EPA:905.0	UF	<	-0.029	pCi/L	0.39	0.11	U	U	CAWR-10-4978	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	U-234	HASL-300:ISOU	F		1.53	pCi/L	0.09	0.13			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	U-234	HASL-300:ISOU	UF		1.51	pCi/L	0.084	0.12			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	U-235/236	HASL-300:ISOU	F	<	0.028	pCi/L	0.048	0.014	U	U	CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	U-235/236	HASL-300:ISOU	UF		0.048	pCi/L	0.044	0.014			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	U-238	HASL-300:ISOU	F		0.974	pCi/L	0.058	0.087			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	U-238	HASL-300:ISOU	UF		0.892	pCi/L	0.053	0.079			CAWR-10-4978	GELC		

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	11/17/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	96-12-8	Dibromo-3-C bloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	11/17/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	11/17/09	96-12-8	Dibromo-3-C bloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4980	FTB	GELC
Buckman Diversion SW	11/17/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-4980	FTB	GELC

Table 3.0
Rio Grande at Buckman
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Buckman Diversion SW	11/17/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.08	ug/L	0.33	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	62-53-3	Aniline	SW-846:8270C	UF	<	10.8	ug/L	2.7	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	R	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	92-87-5	Benzidine	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	21.5	ug/L	6.5	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	0.32	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.1	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	21.5	ug/L	5.4	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sanple Id**	**Lab Code**
Buckman Diversion SW	11/17/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	78-59-1	Isophorone	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.08	ug/L	0.32	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.08	ug/L	0.32	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.08	ug/L	0.32	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.08	ug/L	0.22	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	108-95-2	Phenol	SW-846:8270C	UF	<	10.8	ug/L	1.1	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.08	ug/L	0.32	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	110-86-1	Pyridine	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.8	ug/L	3.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.8	ug/L	2.2	U	U	CAWR-10-4978	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Buckman Diversion SW	11/17/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.22	ug/L	0.05	U	U	CAWR-10-4978	GELC
Buckman Diversion SW	11/17/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.54	ug/L	0.16	U	U	CAWR-10-4978	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	11/17/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Buckman Diversion SW	11/17/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-4979		GELC
Buckman Diversion SW	11/17/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-4978		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	11/17/09	1336-36-3	Total Detected PCBs	EPA:1668A	F		0.0000656	ug/L	NA[1]			CAWR-10-4979		ALTC
Buckman Diversion SW	11/17/09	1336-36-3	Total Detected PCBs	EPA:1668A	UF	<	0.0000000	ug/L	NA[1]	U	U	CAWR-10-4978		ALTC
Buckman Diversion SW	11/17/09	1336-36-3	Total Detected PCBs	EPA:1668A	UF	<	0.0000000	ug/L	NA[1]	U	U	CAWR-10-4982	FB	ALTC

Notes:
[1]NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	11/17/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	ALK-CO3+HCO3	EPA:310.1	UF		114	mg/L	0.73			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	CN(TOTAL)	EPA:335.4	UF	<	0.01	mg/L	0.002	U	U	CAWR-10-4978	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Ca	SW-846:6010B	F		38.5	mg/L	0.05			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Ca	SW-846:6010B	UF		39.9	mg/L	0.05			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Cl(-1)	EPA:300.0	UF		6.16	mg/L	0.07			CAWR-10-4978	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	ClO4	SW-846:6850	UF		0.057	ug/L	0.05	J	J	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	DO	Generic Field Measurement	UF		12.9	mg/L				CAWR-10-4978	FLD		
Buckman Diversion SW	11/17/09	F(-1)	EPA:300.0	UF		0.35	mg/L	0.03			CAWR-10-4978	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	HARDNESS	SM:A2340B	F		126	mg/L	0.35			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	HARDNESS	SM:A2340B	UF		130	mg/L	0.35			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	K	SW-846:6010B	F		2.5	mg/L	0.05			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	K	SW-846:6010B	UF		2.7	mg/L	0.05			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	Mg	SW-846:6010B	F		7.2	mg/L	0.09			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Mg	SW-846:6010B	UF		7.4	mg/L	0.09			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	NH3-N	EPA:350.1	UF	<	0.04	mg/L	0.02	J	U	CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	NO3+NO2-N	EPA:353.2	UF		0.062	mg/L	0.05	J	J	CAWR-10-4978	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Na	SW-846:6010B	F		19.6	mg/L	0.10			CAWR-10-4979	GELC		
Buckman Diversion SW	11/17/09	Na	SW-846:6010B	UF		20.0	mg/L	0.10			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	PO4-P	EPA:365.4	UF		0.07	mg/L	0.02			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	SO4(-2)	EPA:300.0	UF		38.5	mg/L	0.20			CAWR-10-4978	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	SPEC_CONDC	FIELD CONDUCTIVITY	UF		314	uS/cm				CAWR-10-4978	FLD		
Buckman Diversion SW	11/17/09	SPEC_CONDC	EPA:120.1	UF		337	uS/cm	1			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	SSC	EPA:160.2	UF		21.1	mg/L	0.76			CAWR-10-4978	GELC		
Buckman Diversion SW	11/17/09	TDS	EPA:160.1	UF		217	mg/L	2.4			CAWR-10-4978	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	TEMP	GENERIC FIELD TEMP	UF		5.16	deg C				CAWR-10-4978	FLD		
Buckman Diversion SW	11/17/09	TURB	GENERIC FIELD TURB	UF		22.3	NTU				CAWR-10-4978	FLD		
Buckman Diversion SW	11/17/09	pH	EPA:150.1	UF		8.3	SU	0.01	H	J-	CAWR-10-4978	GELC	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	pH	GENERIC FIELD PH	UF		7.9	SU				CAWR-10-4978	FLD	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Sample Id	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	11/17/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	GELC	CAWR-10-4979	100	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	GELC	CAWR-10-4978	100	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	GELC	CAWR-10-4979	200	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Al	SW-846:6010B	UF		779	ug/L	68			GELC	CAWR-10-4978	200	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	As	SW-846:6020	F		4.18	ug/L	1.5			GELC	CAWR-10-4979	10	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	As	SW-846:6020	UF		2.83	ug/L	1.5			GELC	CAWR-10-4978	10	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	B	SW-846:6010B	F		35.5	ug/L	15			GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	B	SW-846:6010B	UF		34.8	ug/L	15			GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Ba	SW-846:6010B	F		58	ug/L	1			GELC	CAWR-10-4979	2000	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Ba	SW-846:6010B	UF		63	ug/L	1			GELC	CAWR-10-4978	2000	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	GELC	CAWR-10-4979	4	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	GELC	CAWR-10-4978	4	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	GELC	CAWR-10-4979	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	GELC	CAWR-10-4978	5	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	GELC	CAWR-10-4979	100	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Cr	SW-846:6020	UF	<	10	ug/L	2.5	U	U	GELC	CAWR-10-4978	100	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	GELC	CAWR-10-4979	1300	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	GELC	CAWR-10-4978	1300	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	GELC	CAWR-10-4979	300	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Fe	SW-846:6010B	UF		521	ug/L	30			GELC	CAWR-10-4978	300	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	GELC	CAWR-10-4979	2	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	GELC	CAWR-10-4978	2	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Mn	SW-846:6010B	F		9.25	ug/L	2			GELC	CAWR-10-4979	50	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Mn	SW-846:6010B	UF		36.4	ug/L	2			GELC	CAWR-10-4978	50	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Mo	SW-846:6020	F		5.57	ug/L	0.1			GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	Mo	SW-846:6020	UF		5.43	ug/L	0.1			GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Ni	SW-846:6020	F		1.3	ug/L	0.5			GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	Ni	SW-846:6020	UF		5.4	ug/L	0.5			GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	GELC	CAWR-10-4979	15	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Pb	SW-846:6020	UF		0.62	ug/L	0.5			GELC	CAWR-10-4978	15	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	GELC	CAWR-10-4979	6	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	GELC	CAWR-10-4978	6	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	GELC	CAWR-10-4979	50	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	GELC	CAWR-10-4978	50	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	SiO2	SW-846:6010B	UF		23.6	mg/L	0.05			GELC	CAWR-10-4978		
Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Sample Id	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	11/17/09	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Sr	SW-846:6010B	F		285	ug/L	1			GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	Sr	SW-846:6010B	UF		293	ug/L	1			GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	GELC	CAWR-10-4979	2	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	GELC	CAWR-10-4978	2	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	U	SW-846:6020	F		2.8	ug/L	0.05			GELC	CAWR-10-4979	30	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	U	SW-846:6020	UF		2.8	ug/L	0.05			GELC	CAWR-10-4978	30	EPA PRIM DW LVL
Buckman Diversion SW	11/17/09	V	SW-846:6010B	F		2.6	ug/L	1			GELC	CAWR-10-4979		
Buckman Diversion SW	11/17/09	V	SW-846:6010B	UF		4.2	ug/L	1			GELC	CAWR-10-4978		
Buckman Diversion SW	11/17/09	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	GELC	CAWR-10-4979	5000	EPA SEC DW LVL
Buckman Diversion SW	11/17/09	Zn	SW-846:6010B	UF		4.3	ug/L	3.3			GELC	CAWR-10-4978	5000	EPA SEC DW LVL

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The resluts for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremen
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyze
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standarc
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missinc
P4b	The surrogate information is missing. Data may not be acceptable for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamec
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamec
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a ndor the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12a
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'--DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitiating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C8d	The sample result is ≤<5 times the concentration of the related analyte in the method bla
C8da	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C8dd	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration rang
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missinc
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the M
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 12
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluate
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time window
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MI
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12c
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary was included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman Diversion
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	1/26/10	Am-241	HASL-300:AM-241	F	<	0.00309	pCi/L	0.009	0.032	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Am-241	HASL-300:AM-241	UF	<	-0.00532	pCi/L	0.004	0.039	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Co-60	EPA:901.1	F	<	-0.167	pCi/L	1.4	4.4	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Co-60	EPA:901.1	UF	<	-3.14	pCi/L	1.4	3.3	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Cs-137	EPA:901.1	F	<	0.25	pCi/L	1.3	4.3	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Cs-137	EPA:901.1	UF	<	-0.815	pCi/L	1.3	4.0	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	GROSSA	EPA:900	F	<	2.58	pCi/L	0.9	2.1		U	CAWR-10-11789	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	GROSSA	EPA:900	UF		3.48	pCi/L	1.1	2.3			CAWR-10-11792	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	GROSSB	EPA:900	F		3.17	pCi/L	0.9	2.4			CAWR-10-11789	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	1/26/10	GROSSB	EPA:900	UF	<	2.22	pCi/L	0.9	2.7	U	U	CAWR-10-11792	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	1/26/10	GROSSG	EPA:901.1	F	<	16.8	pCi/L	26	55	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	GROSSG	EPA:901.1	UF	<	17.6	pCi/L	29	42	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	H-3	Low_Level_Tritium	UF		14.59	pCi/L	0.479	0.287			CAWR-10-11792	UMTL	20,000	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	K-40	EPA:901.1	F	<	42.1	pCi/L	15	56	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	K-40	EPA:901.1	UF	<	23.8	pCi/L	14	54	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Na-22	EPA:901.1	F	<	1.47	pCi/L	1.4	4.8	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Na-22	EPA:901.1	UF	<	-0.143	pCi/L	1.4	4.6	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Np-237	EPA:901.1	F	<	-5.37	pCi/L	13	39	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Np-237	EPA:901.1	UF	<	-34.9	pCi/L	12	35	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Pu-238	HASL-300:ISOPU	F	<	-0.002	pCi/L	0.003	0.036	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Pu-238	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.003	0.038	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Pu-239/240	HASL-300:ISOPU	F	<	0.004	pCi/L	0.003	0.025	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.006	0.026	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	Ra-226	EPA:903.1	F		0.865	pCi/L	0.26	0.61			CAWR-10-11789	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	Ra-226	EPA:903.1	UF	<	0.259	pCi/L	0.18	0.60	U	U	CAWR-10-11792	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	Ra-228	EPA:904	F	<	0.158	pCi/L	0.19	0.67	U	U	CAWR-10-11789	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	Ra-228	EPA:904	UF	<	0.637	pCi/L	0.25	0.68	U	U	CAWR-10-11792	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	Sr-90	EPA:905.0	F	<	-0.076	pCi/L	0.11	0.43	U	U	CAWR-10-11789	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	Sr-90	EPA:905.0	UF	<	-0.053	pCi/L	0.13	0.49	U	U	CAWR-10-11792	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	1/26/10	U-234	HASL-300:ISOU	F		1.62	pCi/L	0.15	0.12			CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	U-234	HASL-300:ISOU	UF		1.64	pCi/L	0.16	0.13			CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	U-235/236	HASL-300:ISOU	F	<	0.055	pCi/L	0.019	0.071	U	U	CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	U-235/236	HASL-300:ISOU	UF	<	0.046	pCi/L	0.018	0.077	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	1/26/10	U-238	HASL-300:ISOU	F		0.838	pCi/L	0.091	0.079			CAWR-10-11789	GELC		
Buckman Diversion SW	1/26/10	U-238	HASL-300:ISOU	UF		0.981	pCi/L	0.110	0.086			CAWR-10-11792	GELC		

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	1/26/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-11792		GILC
Buckman Diversion SW	1/26/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11788	FTB	GILC
Buckman Diversion SW	1/26/10	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-11788	FTB	GILC

Table 3.0
Rio Grande at Buckman Diversion
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Buckman Diversion SW	1/26/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.12	ug/L	0.35	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	62-53-3	Aniline	SW-846:8270C	UF	<	11.2	ug/L	2.8	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	1912-24-9	Atrazine	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	R	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	92-87-5	Benzidine	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	22.5	ug/L	6.7	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.12	ug/L	0.34	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.1	ug/L	0.23	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	22.5	ug/L	5.6	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Buckman Diversion SW	1/26/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	78-59-1	Isophorone	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.12	ug/L	0.34	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.12	ug/L	0.34	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.12	ug/L	0.34	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.12	ug/L	0.23	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	108-95-2	Phenol	SW-846:8270C	UF	<	11.2	ug/L	1.1	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1.12	ug/L	0.34	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	110-86-1	Pyridine	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	UJ	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	11.2	ug/L	3.4	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	11.2	ug/L	2.3	U	U	CAWR-10-11792	GELC

Table 4.0
Rio Grande at Buckman Diversion
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Buckman Diversion SW	1/26/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.021	ug/L	0.006	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.042	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.042	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.042	ug/L	0.011	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.021	ug/L	0.005	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.211	ug/L	0.053	U	U	CAWR-10-11792	GELC
Buckman Diversion SW	1/26/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.526	ug/L	0.16	U	U	CAWR-10-11792	GELC

Table 5.0
Rio Grande at Buckman Diversion
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Buckman Diversion SW	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.035	U	U	CAWR-10-11789		GELC
Buckman Diversion SW	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.11	ug/L	0.035	U	U	CAWR-10-11792		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	1/26/10	1336-36-3	Total PCB	EPA:1668A	F	<	0.0000000	ug/L	NA[1]	U	U	CAWR-10-11789		ALTC
Buckman Diversion SW	1/26/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	NA[1]	U	U	CAWR-10-11792		ALTC
Buckman Diversion SW	1/26/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	NA[1]	U	U	CAWR-10-11790	FB	ALTC

Notes:
[1]NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Buckman Diversion
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	01/26/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	ALK-CO3+HCO3	EPA:310.1	UF		98.9	mg/L	0.73			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	Br(-1)	EPA:300.0	UF	<	0.20	mg/L	0.066	U	U	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	CN(TOTAL)	EPA:335.4	UF		0.00293	mg/L	0.002	J	U	CAWR-10-11792	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Ca	SW-846:6010B	UF		35.3	mg/L	0.05			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	Ca	SW-846:6010B	F		33.8	mg/L	0.05			CAWR-10-11789	GELC		
Buckman Diversion SW	01/26/10	Cl(-1)	EPA:300.0	UF		6.20	mg/L	0.066			CAWR-10-11792	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	ClO4	SW-846:6850	UF		0.08	ug/L	0.05	J	J	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	DO	Generic Field Measurement	UF		13.35	mg/L				CAWR-10-11792	FLD		
Buckman Diversion SW	01/26/10	F(-1)	EPA:300.0	UF		0.39	mg/L	0.033			CAWR-10-11792	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	HARDNESS	SM:A2340B	F		111	mg/L	0.35			CAWR-10-11789	GELC		
Buckman Diversion SW	01/26/10	HARDNESS	SM:A2340B	UF		116	mg/L	0.35			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	K	SW-846:6010B	UF		2.7	mg/L	0.05			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	K	SW-846:6010B	F		2.5	mg/L	0.05			CAWR-10-11789	GELC		
Buckman Diversion SW	01/26/10	Mg	SW-846:6010B	UF		6.7	mg/L	0.09			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	Mg	SW-846:6010B	F		6.4	mg/L	0.09			CAWR-10-11789	GELC		
Buckman Diversion SW	01/26/10	NH3-N	EPA:350.1	UF		0.04	mg/L	0.016	J	U	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	NO3+NO2-N	EPA:353.2	UF		0.23	mg/L	0.05	J	J+	CAWR-10-11792	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Na	SW-846:6010B	F		19.4	mg/L	0.10			CAWR-10-11789	GELC		
Buckman Diversion SW	01/26/10	Na	SW-846:6010B	UF		19.6	mg/L	0.10			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	PO4-P	EPA:365.4	UF		0.1	mg/L	0.02		U	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	SO4(-2)	EPA:300.0	UF		35.9	mg/L	0.10		J+	CAWR-10-11792	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	SPEC_CONDC	FIELD CONDUCTIVITY	UF		292	uS/cm				CAWR-10-11792	FLD		
Buckman Diversion SW	01/26/10	SPEC_CONDC	EPA:120.1	UF		291	uS/cm	1			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	SSC	EPA:160.2	UF		20.8	mg/L	0.59			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	TDS	EPA:160.1	UF		196	mg/L	2.4			CAWR-10-11792	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	TEMP	GENERIC FIELD TEMP	UF		2.2	deg C				CAWR-10-11792	FLD		
Buckman Diversion SW	01/26/10	TKN	EPA:351.2	UF		0.04	mg/L	0.033	J	J-	CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	TOC	SW-846:9060	UF		2.3	mg/L	0.33			CAWR-10-11792	GELC		
Buckman Diversion SW	01/26/10	TURB	GENERIC FIELD TURB	UF		11.2	NTU				CAWR-10-11792	FLD		
Buckman Diversion SW	01/26/10	pH	GENERIC FIELD PH	UF		7.39	SU				CAWR-10-11792	FLD	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	pH	EPA:150.1	UF		8.23	SU	0.01	H	J-	CAWR-10-11792	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman Diversion
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Sample Id	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	01/26/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	GELC	CAWR-10-11789	100	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	GELC	CAWR-10-11792	100	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	GELC	CAWR-10-11789	200	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Al	SW-846:6010B	UF		443	ug/L	68			GELC	CAWR-10-11792	200	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	As	SW-846:6020	F		2.55	ug/L	1.5	J	J	GELC	CAWR-10-11789	10	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	As	SW-846:6020	UF		4.02	ug/L	1.5	J	J	GELC	CAWR-10-11792	10	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	B	SW-846:6010B	F		25.4	ug/L	15	J	J	GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	B	SW-846:6010B	UF		25.0	ug/L	15	J	J	GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Ba	SW-846:6010B	F		45	ug/L	1			GELC	CAWR-10-11789	2000	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Ba	SW-846:6010B	UF		49	ug/L	1			GELC	CAWR-10-11792	2000	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	GELC	CAWR-10-11789	4	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	GELC	CAWR-10-11792	4	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	GELC	CAWR-10-11789	5	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	GELC	CAWR-10-11792	5	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	GELC	CAWR-10-11789	100	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Cr	SW-846:6020	UF	<	10	ug/L	2.5	U	U	GELC	CAWR-10-11792	100	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	GELC	CAWR-10-11789	1300	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	GELC	CAWR-10-11792	1300	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	GELC	CAWR-10-11789	300	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Fe	SW-846:6010B	UF		332	ug/L	30			GELC	CAWR-10-11792	300	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	GELC	CAWR-10-11789	2	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	GELC	CAWR-10-11792	2	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Mn	SW-846:6010B	F		10.3	ug/L	2			GELC	CAWR-10-11789	50	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Mn	SW-846:6010B	UF		34.6	ug/L	2			GELC	CAWR-10-11792	50	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Mo	SW-846:6020	F		5.76	ug/L	0.1			GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	Mo	SW-846:6020	UF		5.75	ug/L	0.1			GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Ni	SW-846:6020	F		1.8	ug/L	0.5	J	J	GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	Ni	SW-846:6020	UF		1.7	ug/L	0.5	J	J	GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	GELC	CAWR-10-11789	15	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Pb	SW-846:6020	UF		0.66	ug/L	0.5	J	J	GELC	CAWR-10-11792	15	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	GELC	CAWR-10-11789	6	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	GELC	CAWR-10-11792	6	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	GELC	CAWR-10-11789	50	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	GELC	CAWR-10-11792	50	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	SiO2	SW-846:6010B	UF		26	mg/L	0.05			GELC	CAWR-10-11792		
Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Sample Id	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	01/26/10	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Sr	SW-846:6010B	F		251	ug/L	1			GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	Sr	SW-846:6010B	UF		259	ug/L	1			GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	GELC	CAWR-10-11789	2	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	GELC	CAWR-10-11792	2	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	U	SW-846:6020	F		3.6	ug/L	0.05			GELC	CAWR-10-11789	30	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	U	SW-846:6020	UF		3.7	ug/L	0.05			GELC	CAWR-10-11792	30	EPA PRIM DW LVL
Buckman Diversion SW	01/26/10	V	SW-846:6010B	F		3.5	ug/L	1	J	J	GELC	CAWR-10-11789		
Buckman Diversion SW	01/26/10	V	SW-846:6010B	UF		3.9	ug/L	1	J	J	GELC	CAWR-10-11792		
Buckman Diversion SW	01/26/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	GELC	CAWR-10-11789	5000	EPA SEC DW LVL
Buckman Diversion SW	01/26/10	Zn	SW-846:6010B	UF		4.8	ug/L	3.3	J	J	GELC	CAWR-10-11792	5000	EPA SEC DW LVL

Table 1.0
Rio Grande at Buckman Diversion
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	F	<	0.0063	pCi/L	0.003	0.022	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	UF	<	0.0146	pCi/L	0.005	0.023	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	F	<	-0.918	pCi/L	1.1	3.2	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	UF	<	-0.17	pCi/L	1.8	6	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	F	<	-1.33	pCi/L	0.93	2.8	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	UF	<	-0.0248	pCi/L	1.7	5.4	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	F	<	1.67	pCi/L	0.9	2.5	U	U		CAWR-10-17020	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	UF		6.28	pCi/L	1.6	2.1				CAWR-10-17019	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	F	<	0.97	pCi/L	0.8	2.5		U		CAWR-10-17020	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	UF		4.17	pCi/L	0.95	2.1				CAWR-10-17019	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	F	<	8.8	pCi/L	2.9	8.9	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	UF	<	11.8	pCi/L	5	34	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	F	<	15.80	pCi/L	13.000	47.000	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	UF	<	34.2	pCi/L	15	60	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	F	<	-0.3	pCi/L	1	3	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	UF	<	2.60	pCi/L	1.6	5.9	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	F	<	0.134	pCi/L	2.0	6.4	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	F	<	-0.0987	pCi/L	0	1	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	UF	<	0.0032	pCi/L	0.009	0.023	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	UF	<	-1.470	pCi/L	2.3	7.7	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	F	<	0.002	pCi/L	0.004	0.031	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.005	0.038	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	F	<	0.010	pCi/L	0.007	0.029	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.007	pCi/L	0.01	0.04	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	F	<	0.173	pCi/L	0.16	0.56	U	U		CAWR-10-17020	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	UF	<	0.271	pCi/L	0.19	0.61	U	U		CAWR-10-17019	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	F	<	0.631	pCi/L	0.31	0.93	U	U		CAWR-10-17020	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	UF	<	0.364	pCi/L	0.27	0.88	U	U		CAWR-10-17019	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	F		0.996	pCi/L	0.19	0.41				CAWR-10-17020	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	UF	<	0.46	pCi/L	0.16	0.48	U	U		CAWR-10-17019	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	F	<	0.01	pCi/L	0.01	0.064	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	UF	<	0.038	pCi/L	0.012	0.05	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	F	<	-0.009	pCi/L	0.005	0.091	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	UF	<	0.022	pCi/L	0.010	0.071	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.005	0.038	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	UF	<	0.0171	pCi/L	0.008	0.03	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	F		0.622	pCi/L	0.066	0.056				CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	UF		0.68	pCi/L	0.066	0.046				CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	F	<	0.0085	pCi/L	0.006	0.051	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	UF	<	0.0139	pCi/L	0.007	0.042	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	F		0.329	pCi/L	0.042	0.051				CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	UF		0.395	pCi/L	0.044	0.042				CAWR-10-17019	GELC		

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	F	<	-0.0017	pCi/L	0.007	0.022	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	UF	<	0.0088	pCi/L	0.004	0.021	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	F	<	-1.99	pCi/L	1.5	4.3	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	UF	<	2.43	pCi/L	1.3	5	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	F	<	-0.117	pCi/L	1	3.3	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	UF	<	2.21	pCi/L	1.8	6.9	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	F	<	1.16	pCi/L	0.79	2.5	U	U	FD	CAWR-10-17023	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	UF		3.4	pCi/L	1.1	2.4			FD	CAWR-10-17022	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	F	<	1.12	pCi/L	0.79	2.6		U	FD	CAWR-10-17023	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	UF		5.74	pCi/L	1.2	2.8			FD	CAWR-10-17022	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	F	<	2.36	pCi/L	1.2	2.4	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	UF	<	3.44	pCi/L	1	7.3	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	F	<	-4.37	pCi/L	16	51	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	UF	<	11.9	pCi/L	17	58	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	F	<	-0.134	pCi/L	1.2	3.9	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	UF	<	-0.235	pCi/L	1.4	4.4	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	F	<	0.0091	pCi/L	0.006	0.013	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	F	<	2.7	pCi/L	2.1	7.1	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	UF	<	0.0065	pCi/L	0.015	0.046	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	UF	<	-2.57	pCi/L	2.3	7.6	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	F	<	0.0119	pCi/L	0.013	0.031	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	UF	<	0.0055	pCi/L	0.004	0.044	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	F	<	0	pCi/L	0.005	0.029	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.0028	pCi/L	0.005	0.041	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	F	<	0.341	pCi/L	0.14	0.38	U	U	FD	CAWR-10-17023	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	UF	<	0.423	pCi/L	0.19	0.52	U	U	FD	CAWR-10-17022	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	F	<	0.311	pCi/L	0.24	0.79	U	U	FD	CAWR-10-17023	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	UF		1.2	pCi/L	0.37	0.94			FD	CAWR-10-17022	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	F	<	0.219	pCi/L	0.14	0.46	U	U	FD	CAWR-10-17023	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	UF	<	0.0609	pCi/L	0.13	0.45	U	U	FD	CAWR-10-17022	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	F	<	0.022	pCi/L	0.011	0.047	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	UF	<	0.0395	pCi/L	0.013	0.048	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	F	<	0.0117	pCi/L	0.007	0.067	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	UF	<	0.0093	pCi/L	0.005	0.068	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	F	<	-0.0005	pCi/L	0.003	0.028	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	UF	<	0.0218	pCi/L	0.008	0.029	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	F		0.563	pCi/L	0.058	0.048			FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	UF		0.644	pCi/L	0.067	0.055			FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	F	<	0.0108	pCi/L	0.008	0.044	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	UF	<	0.0166	pCi/L	0.01	0.05	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	F		0.333	pCi/L	0.04	0.044			FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	UF		0.375	pCi/L	0.046	0.05			FD	CAWR-10-17022	GELC		

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC

Table 3.0
Rio Grande at Buckman Diversion
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1	ug/L	0.31	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	62-53-3	Aniline	SW-846:8270C	UF	<	10	ug/L	2.5	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	191-24-9	Azaarene	SW-846:8270C	UF	<	10	ug/L	3	U	R	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	56-55-3	Benz(a)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.00	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.00	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20	ug/L	6	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	101-55-3	4-Bromophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	59-50-7	4-Chloro-3-methylphenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-47-8	4-Chloroaniline	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-58-7	2-Chloronaphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-57-8	2-Chlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	7005-72-3	4-Chlorophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.0	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-50-1	1,2-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	541-73-1	1,3-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-46-7	1,4-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-94-1	3,3'-Dichlorobenzidine	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-83-2	2,4-Dichlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20	ug/L	5	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	108-95-2	Phenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1	ug/L	0.31	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	62-53-3	Aniline	SW-846:8270C	UF	<	10	ug/L	2.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	191-24-9	Azaarene	SW-846:8270C	UF	<	10	ug/L	3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	56-55-3	Benz(a)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20	ug/L	6	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	101-55-3	4-Bromophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	59-50-7	4-Chloro-3-methylphenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-47-8	4-Chloroaniline	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-58-7	2-Chloronaphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-57-8	2-Chlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	7005-72-3	4-Chlorophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-50-1	1,2-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	541-73-1	1,3-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-46-7	1,4-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-94-1	3,3'-Dichlorobenzidine	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-83-2	2,4-Dichlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20	ug/L	5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-95-2	Phenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC

Table 4.0
Rio Grande at Buckman Diversion
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.210	ug/L	0.05	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.53	ug/L	0.16	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.21	ug/L	0.05	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.53	ug/L	0.16	U	U	CAWR-10-17022	FD	GELC

Table 5.0
Rio Grande at Buckman Diversion
PCBs
EPA:1668A (Congener) Analytical Method

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L	NA[1]	U	U	CAWR-10-17019		CFA
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF		0.00002770	ug/L	NA			CAWR-10-17022	FD	CFA
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L	NA	U	U	CAWR-10-17021	FB	CFA

Notes:
[1]NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Buckman Diversion
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	ALK-CO3+HCO3	EPA:310.1	UF		72.4	mg/L	0.73			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Br(-1)	EPA:300.0	UF	<	0.20	mg/L	0.07	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.0017	U	U	CAWR-10-17019		GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	F		27.1	mg/L	0.05			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	UF		30.9	mg/L	0.05			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Cl(-1)	EPA:300.0	UF		2.58	mg/L	0.07			CAWR-10-17019		GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	ClO4	SW-846:6850	UF		0.10	ug/L	0.05	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	DO	Field Measurement	UF		9.55	mg/L				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	F(-1)	EPA:300.0	UF		0.17	mg/L	0.03			CAWR-10-17019		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	F		87	mg/L	0.35			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	UF		99	mg/L	0.35			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	F		2.1	mg/L	0.05	E		CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	UF		2.3	mg/L	0.05	E		CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	F		4.8	mg/L	0.09			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	UF		5.3	mg/L	0.09			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	NH3-N	EPA:350.1	UF	<	0.12	mg/L	0.02		U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	NO3+NO2-N	EPA:353.2	UF	<	0.12	mg/L	0.05	J	U	CAWR-10-17019		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	F		10.2	mg/L	0.10			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	UF		10.5	mg/L	0.10			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	PO4-P	EPA:365.4	UF		0.1	mg/L	0.02			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	SO4(-2)	EPA:300.0	UF		33.7	mg/L	0.10			CAWR-10-17019		GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	SPEC_CONDC	FIELD CONDUCTIVITY	UF		213	uS/cm				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	SPEC_CONDC	EPA:120.1	UF		236	uS/cm	1.0			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	SSC	EPA:160.2	UF		122	mg/L	2.3			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TDS	EPA:160.1	UF		162	mg/L	2.4			CAWR-10-17019		GELC	500	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	TEMP	GENERIC FIELD TEMP	UF		11.4	deg C				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	TKN	EPA:351.2	UF		0.41	mg/L	0.03		J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TOC	SW-846:9060	UF		5.3	mg/L	0.33			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TURB	GENERIC FIELD TURB	UF		53.5	NTU				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	pH	GENERIC FIELD PH	UF		7.35	SU				CAWR-10-17019		FLD	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	pH	EPA:150.1	UF		8.12	SU	0.01	H	J-	CAWR-10-17019		GELC	6.5-8.5	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Buckman Diversion SW	05/10/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	ALK-CO3+HCO3	EPA:310.1	UF		71.4	mg/L	0.73			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.0017	U	U	CAWR-10-17022	FD	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	F		27.2	mg/L	0.05			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	UF		31.1	mg/L	0.05			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Cl(-1)	EPA:300.0	UF		2.6	mg/L	0.07			CAWR-10-17022	FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	ClO4	SW-846:6850	UF		0.09	ug/L	0.05	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	F(-1)	EPA:300.0	UF		0.182	mg/L	0.03			CAWR-10-17022	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	F		88.1	mg/L	0.35			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	UF		98.7	mg/L	0.35			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	F		1.99	mg/L	0.05	E		CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	UF		2.18	mg/L	0.05	E		CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	F		4.87	mg/L	0.09			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	UF		5.13	mg/L	0.09			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	NH3-N	EPA:350.1	UF	<	0.053	mg/L	0.02		U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	NO3+NO2-N	EPA:353.2	UF	<	0.12	mg/L	0.05	J	U	CAWR-10-17022	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	F		10.2	mg/L	0.10			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	UF		10.5	mg/L	0.10			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	PO4-P	EPA:365.4	UF		0.094	mg/L	0.02			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	SO4(-2)	EPA:300.0	UF		33.7	mg/L	0.1			CAWR-10-17022	FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	SPEC_CONDC	EPA:120.1	UF		236	uS/cm	1.0			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	SSC	EPA:160.2	UF		109	mg/L	2.3			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	TDS	EPA:160.1	UF		166	mg/L	2.4			CAWR-10-17022	FD	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	TKN	EPA:351.2	UF		0.437	mg/L	0.03		J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	TOC	SW-846:9060	UF		5.34	mg/L	0.33			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	pH	EPA:150.1	UF		8.11	SU	0.01	H	J-	CAWR-10-17022	FD	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman Diversion
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-17020		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-17019		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	F	<	200	ug/L	68	U*	UJ	CAWR-10-17020		GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	UF		1240	ug/L	68	*	J	CAWR-10-17019		GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	CAWR-10-17020		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	CAWR-10-17019		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	B	SW-846:6010B	F		18.0	ug/L	15	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	B	SW-846:6010B	UF		18.1	ug/L	15	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	F		42	ug/L	1			CAWR-10-17020		GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	UF		64	ug/L	1			CAWR-10-17019		GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17020		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17019		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-17020		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-17019		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-17020		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	UF		3.1	ug/L	2.5	J	J	CAWR-10-17019		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-17020		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-17019		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	F		42.8	ug/L	30	J*	J	CAWR-10-17020		GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	UF		995	ug/L	30	*	J	CAWR-10-17019		GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-17020		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-17019		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	F		4.08	ug/L	2	J	J	CAWR-10-17020		GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	UF		90.3	ug/L	2			CAWR-10-17019		GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	F		1.87	ug/L	0.1			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	UF		1.77	ug/L	0.1			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	F		1.3	ug/L	0.5	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	UF		2.6	ug/L	0.5			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-17020		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	UF		2.0	ug/L	0.5			CAWR-10-17019		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-17020		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-17019		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-17020		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-17019		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	SiO2	SW-846:6010B	UF		20.1	mg/L	0.05			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	F	<	10	ug/L	2.5	U	U	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	F		202	ug/L	1			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	UF		218	ug/L	1			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-17020		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-17019		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	F		1.2	ug/L	0.05			CAWR-10-17020		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	UF		1.4	ug/L	0.05			CAWR-10-17019		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	V	SW-846:6010B	F		2.2	ug/L	1	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	V	SW-846:6010B	UF		4.4	ug/L	1	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-17020		GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	UF		7.7	ug/L	3.3	J	J	CAWR-10-17019		GELC	5000	EPA SEC DW LVL

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-17023	FD	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	F	<	200	ug/L	68	U*	UJ	CAWR-10-17023	FD	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	UF		563	ug/L	68	*	J	CAWR-10-17022	FD	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	F	<	5.0	ug/L	1.5	U	U	CAWR-10-17023	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17022	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	B	SW-846:6010B	F		17.6	ug/L	15	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	B	SW-846:6010B	UF		20.1	ug/L	15	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	F		42.0	ug/L	1			CAWR-10-17023	FD	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	UF		62.6	ug/L	1			CAWR-10-17022	FD	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-17023	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-17022	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-17023	FD	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	UF		2.7	ug/L	2.5	J	J	CAWR-10-17022	FD	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-17023	FD	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	F		55.6	ug/L	30	J*	J	CAWR-10-17023	FD	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	UF		553	ug/L	30	*	J	CAWR-10-17022	FD	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-17023	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-17022	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	F		4.15	ug/L	2	J	J	CAWR-10-17023	FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	UF		90.5	ug/L	2			CAWR-10-17022	FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	F		1.9	ug/L	0.1			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	UF		1.8	ug/L	0.1			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	F		1.4	ug/L	0.5	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	UF		2.5	ug/L	0.5			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-17023	FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	UF		2.0	ug/L	0.5	J	J	CAWR-10-17022	FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-17023	FD	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	SiO2	SW-846:6010B	UF		17	mg/L	0.05			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	F	<	10	ug/L	2.5	U	U	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	F		204	ug/L	1			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	UF		218	ug/L	1			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-17023	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	F		1.2	ug/L	0.05			CAWR-10-17023	FD	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	UF		1.4	ug/L	0.05			CAWR-10-17022	FD	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	V	SW-846:6010B	F		2.3	ug/L	1	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	V	SW-846:6010B	UF		3.9	ug/L	1	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-17023	FD	GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	UF		6.5	ug/L	3.3	J	J	CAWR-10-17022	FD	GELC	5000	EPA SEC DW LVL

Table 1.0
Rio Grande at Buckman Diversion
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	F	<	0.0063	pCi/L	0.003	0.022	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	UF	<	0.0146	pCi/L	0.005	0.023	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	F	<	-0.918	pCi/L	1.1	3.2	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	UF	<	-0.17	pCi/L	1.8	6	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	F	<	-1.33	pCi/L	0.93	2.8	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	UF	<	-0.0248	pCi/L	1.7	5.4	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	F	<	1.67	pCi/L	0.9	2.5	U	U		CAWR-10-17020	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	UF		6.28	pCi/L	1.6	2.1				CAWR-10-17019	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	F	<	0.97	pCi/L	0.8	2.5		U		CAWR-10-17020	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	UF		4.17	pCi/L	0.95	2.1				CAWR-10-17019	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	F	<	8.8	pCi/L	2.9	8.9	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	UF	<	11.8	pCi/L	5	34	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	F	<	15.80	pCi/L	13.000	47.000	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	UF	<	34.2	pCi/L	15	60	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	F	<	-0.3	pCi/L	1	3	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	UF	<	2.60	pCi/L	1.6	5.9	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	F	<	0.134	pCi/L	2.0	6.4	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	F	<	-0.0987	pCi/L	0	1	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	UF	<	0.0032	pCi/L	0.009	0.023	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	UF	<	-1.470	pCi/L	2.3	7.7	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	F	<	0.002	pCi/L	0.004	0.031	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.005	0.038	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	F	<	0.010	pCi/L	0.007	0.029	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.007	pCi/L	0.01	0.04	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	F	<	0.173	pCi/L	0.16	0.56	U	U		CAWR-10-17020	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	UF	<	0.271	pCi/L	0.19	0.61	U	U		CAWR-10-17019	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	F	<	0.631	pCi/L	0.31	0.93	U	U		CAWR-10-17020	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	UF	<	0.364	pCi/L	0.27	0.88	U	U		CAWR-10-17019	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	F		0.996	pCi/L	0.19	0.41				CAWR-10-17020	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	UF	<	0.46	pCi/L	0.16	0.48	U	U		CAWR-10-17019	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	F	<	0.01	pCi/L	0.01	0.064	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	UF	<	0.038	pCi/L	0.012	0.05	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	F	<	-0.009	pCi/L	0.005	0.091	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	UF	<	0.022	pCi/L	0.010	0.071	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.005	0.038	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	UF	<	0.0171	pCi/L	0.008	0.03	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	F		0.622	pCi/L	0.066	0.056				CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	UF		0.68	pCi/L	0.066	0.046				CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	F	<	0.0085	pCi/L	0.006	0.051	U	U		CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	UF	<	0.0139	pCi/L	0.007	0.042	U	U		CAWR-10-17019	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	F		0.329	pCi/L	0.042	0.051				CAWR-10-17020	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	UF		0.395	pCi/L	0.044	0.042				CAWR-10-17019	GELC		

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code	Scr Lvl	Scrn Lvl Type Code
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	F	<	-0.0017	pCi/L	0.007	0.022	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Am-241	HASL-300:AM-241	UF	<	0.0088	pCi/L	0.004	0.021	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	F	<	-1.99	pCi/L	1.5	4.3	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Co-60	EPA:901.1	UF	<	2.43	pCi/L	1.3	5	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	F	<	-0.117	pCi/L	1	3.3	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Cs-137	EPA:901.1	UF	<	2.21	pCi/L	1.8	6.9	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	F	<	1.16	pCi/L	0.79	2.5	U	U	FD	CAWR-10-17023	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSA	EPA:900	UF		3.4	pCi/L	1.1	2.4			FD	CAWR-10-17022	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	F	<	1.12	pCi/L	0.79	2.6		U	FD	CAWR-10-17023	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSB	EPA:900	UF		5.74	pCi/L	1.2	2.8			FD	CAWR-10-17022	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	F	<	2.36	pCi/L	1.2	2.4	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	GROSSG	EPA:901.1	UF	<	3.44	pCi/L	1	7.3	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	F	<	-4.37	pCi/L	16	51	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	K-40	EPA:901.1	UF	<	11.9	pCi/L	17	58	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	F	<	-0.134	pCi/L	1.2	3.9	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Na-22	EPA:901.1	UF	<	-0.235	pCi/L	1.4	4.4	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	F	<	0.0091	pCi/L	0.006	0.013	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	F	<	2.7	pCi/L	2.1	7.1	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Np-237	HASL-300:Np-237	UF	<	0.0065	pCi/L	0.015	0.046	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Np-237	EPA:901.1	UF	<	-2.57	pCi/L	2.3	7.6	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	F	<	0.0119	pCi/L	0.013	0.031	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Pu-238	HASL-300:ISOPU	UF	<	0.0055	pCi/L	0.004	0.044	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	F	<	0	pCi/L	0.005	0.029	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.0028	pCi/L	0.005	0.041	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	F	<	0.341	pCi/L	0.14	0.38	U	U	FD	CAWR-10-17023	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-226	EPA:903.1	UF	<	0.423	pCi/L	0.19	0.52	U	U	FD	CAWR-10-17022	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	F	<	0.311	pCi/L	0.24	0.79	U	U	FD	CAWR-10-17023	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Ra-228	EPA:904	UF		1.2	pCi/L	0.37	0.94			FD	CAWR-10-17022	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	F	<	0.219	pCi/L	0.14	0.46	U	U	FD	CAWR-10-17023	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Sr-90	EPA:905.0	UF	<	0.0609	pCi/L	0.13	0.45	U	U	FD	CAWR-10-17022	GELC	8	EPA PRIM DW LVL
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	F	<	0.022	pCi/L	0.011	0.047	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-228	HASL-300:ISOTH	UF	<	0.0395	pCi/L	0.013	0.048	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	F	<	0.0117	pCi/L	0.007	0.067	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-230	HASL-300:ISOTH	UF	<	0.0093	pCi/L	0.005	0.068	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	F	<	-0.0005	pCi/L	0.003	0.028	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	Th-232	HASL-300:ISOTH	UF	<	0.0218	pCi/L	0.008	0.029	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	F		0.563	pCi/L	0.058	0.048			FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-234	HASL-300:ISOU	UF		0.644	pCi/L	0.067	0.055			FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	F	<	0.0108	pCi/L	0.008	0.044	U	U	FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-235/236	HASL-300:ISOU	UF	<	0.0166	pCi/L	0.01	0.05	U	U	FD	CAWR-10-17022	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	F		0.333	pCi/L	0.04	0.044			FD	CAWR-10-17023	GELC		
Buckman Diversion SW	5/10/10	U-238	HASL-300:ISOU	UF		0.375	pCi/L	0.046	0.05			FD	CAWR-10-17022	GELC		

Table 2.0
Rio Grande at Buckman Diversion
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample ID**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample ID**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17024	FTB	GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17024	FTB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample ID**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	5/10/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample ID**	**Fld Qc Type Code**	**Lab Code**
Buckman Diversion SW	5/10/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC

Table 3.0
Rio Grande at Buckman Diversion
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1	ug/L	0.31	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	62-53-3	Aniline	SW-846:8270C	UF	<	10	ug/L	2.5	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	191-24-9	Azaarene	SW-846:8270C	UF	<	10	ug/L	3	U	R	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	56-55-3	Benz(a)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.00	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.00	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20	ug/L	6	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	101-55-3	4-Bromophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	59-50-7	4-Chloro-3-methylphenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-47-8	4-Chloroaniline	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-58-7	2-Chloronaphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-57-8	2-Chlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	7005-72-3	4-Chlorophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.0	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-50-1	1,2-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	541-73-1	1,3-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-46-7	1,4-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-94-1	3,3'-Dichlorobenzidine	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-83-2	2,4-Dichlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20	ug/L	5	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	108-95-2	Phenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17010		GELC
Buckman Diversion SW	5/10/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1	ug/L	0.31	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	62-53-3	Aniline	SW-846:8270C	UF	<	10	ug/L	2.5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	191-24-9	Azaarene	SW-846:8270C	UF	<	10	ug/L	3	U	R	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	56-55-3	Benz(a)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20	ug/L	6	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	101-55-3	4-Bromophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	59-50-7	4-Chloro-3-methylphenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-47-8	4-Chloroaniline	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-58-7	2-Chloronaphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-57-8	2-Chlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	7005-72-3	4-Chlorophenyl-phenylether	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-50-1	1,2-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	541-73-1	1,3-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-46-7	1,4-Dichlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-94-1	3,3'-Dichlorobenzidine	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-83-2	2,4-Dichlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20	ug/L	5	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	193-39-5	Indeno[1,2,3-cd]pyrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	108-95-2	Phenol	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10	ug/L	3	U	UJ	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10	ug/L	2	U	U	CAWR-10-17022	FD	GELC

Table 4.0
Rio Grande at Buckman Diversion
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.210	ug/L	0.05	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.53	ug/L	0.16	U	U	CAWR-10-17019		GELC
Buckman Diversion SW	5/10/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.21	ug/L	0.05	U	U	CAWR-10-17022	FD	GELC
Buckman Diversion SW	5/10/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.53	ug/L	0.16	U	U	CAWR-10-17022	FD	GELC

Table 5.0
Rio Grande at Buckman Diversion
PCBs
EPA:1668A (Congener) Analytical Method

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L	NA[1]	U	U	CAWR-10-17019		CFA
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF		0.00002770	ug/L	NA			CAWR-10-17022	FD	CFA
Buckman Diversion SW	5/10/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00000000	ug/L	NA	U	U	CAWR-10-17021	FB	CFA

Notes:
[1]NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Buckman Diversion
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	ALK-CO3+HCO3	EPA:310.1	UF		72.4	mg/L	0.73			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Br(-1)	EPA:300.0	UF	<	0.20	mg/L	0.07	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.0017	U	U	CAWR-10-17019		GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	F		27.1	mg/L	0.05			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	UF		30.9	mg/L	0.05			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Cl(-1)	EPA:300.0	UF		2.58	mg/L	0.07			CAWR-10-17019		GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	ClO4	SW-846:6850	UF		0.10	ug/L	0.05	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	DO	Field Measurement	UF		9.55	mg/L				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	F(-1)	EPA:300.0	UF		0.17	mg/L	0.03			CAWR-10-17019		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	F		87	mg/L	0.35			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	UF		99	mg/L	0.35			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	F		2.1	mg/L	0.05	E		CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	UF		2.3	mg/L	0.05	E		CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	F		4.8	mg/L	0.09			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	UF		5.3	mg/L	0.09			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	NH3-N	EPA:350.1	UF	<	0.12	mg/L	0.02		U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	NO3+NO2-N	EPA:353.2	UF	<	0.12	mg/L	0.05	J	U	CAWR-10-17019		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	F		10.2	mg/L	0.10			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	UF		10.5	mg/L	0.10			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	PO4-P	EPA:365.4	UF		0.1	mg/L	0.02			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	SO4(-2)	EPA:300.0	UF		33.7	mg/L	0.10			CAWR-10-17019		GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	SPEC_CONDC	FIELD CONDUCTIVITY	UF		213	uS/cm				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	SPEC_CONDC	EPA:120.1	UF		236	uS/cm	1.0			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	SSC	EPA:160.2	UF		122	mg/L	2.3			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TDS	EPA:160.1	UF		162	mg/L	2.4			CAWR-10-17019		GELC	500	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	TEMP	GENERIC FIELD TEMP	UF		11.4	deg C				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	TKN	EPA:351.2	UF		0.41	mg/L	0.03		J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TOC	SW-846:9060	UF		5.3	mg/L	0.33			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	TURB	GENERIC FIELD TURB	UF		53.5	NTU				CAWR-10-17019		FLD		
Buckman Diversion SW	05/10/10	pH	GENERIC FIELD PH	UF		7.35	SU				CAWR-10-17019		FLD	6.5-8.5	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	pH	EPA:150.1	UF		8.12	SU	0.01	H	J-	CAWR-10-17019		GELC	6.5-8.5	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Buckman Diversion SW	05/10/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	ALK-CO3+HCO3	EPA:310.1	UF		71.4	mg/L	0.73			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	CN(TOTAL)	EPA:335.4	UF	<	0.005	mg/L	0.0017	U	U	CAWR-10-17022	FD	GELC	0.2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	F		27.2	mg/L	0.05			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Ca	SW-846:6010B	UF		31.1	mg/L	0.05			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Cl(-1)	EPA:300.0	UF		2.6	mg/L	0.07			CAWR-10-17022	FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	ClO4	SW-846:6850	UF		0.09	ug/L	0.05	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	F(-1)	EPA:300.0	UF		0.182	mg/L	0.03			CAWR-10-17022	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	F		88.1	mg/L	0.35			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	HARDNESS	SM:A2340B	UF		98.7	mg/L	0.35			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	F		1.99	mg/L	0.05	E		CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	K	SW-846:6010B	UF		2.18	mg/L	0.05	E		CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	F		4.87	mg/L	0.09			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Mg	SW-846:6010B	UF		5.13	mg/L	0.09			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	NH3-N	EPA:350.1	UF	<	0.053	mg/L	0.02		U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	NO3+NO2-N	EPA:353.2	UF	<	0.12	mg/L	0.05	J	U	CAWR-10-17022	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	F		10.2	mg/L	0.10			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Na	SW-846:6010B	UF		10.5	mg/L	0.10			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	PO4-P	EPA:365.4	UF		0.094	mg/L	0.02			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	SO4(-2)	EPA:300.0	UF		33.7	mg/L	0.1			CAWR-10-17022	FD	GELC	250	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	SPEC_CONDC	EPA:120.1	UF		236	uS/cm	1.0			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	SSC	EPA:160.2	UF		109	mg/L	2.3			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	TDS	EPA:160.1	UF		166	mg/L	2.4			CAWR-10-17022	FD	GELC	500	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	TKN	EPA:351.2	UF		0.437	mg/L	0.03		J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	TOC	SW-846:9060	UF		5.34	mg/L	0.33			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	pH	EPA:150.1	UF		8.11	SU	0.01	H	J-	CAWR-10-17022	FD	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Buckman Diversion
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-17020		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-17019		GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	F	<	200	ug/L	68	U*	UJ	CAWR-10-17020		GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	UF		1240	ug/L	68	*	J	CAWR-10-17019		GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	CAWR-10-17020		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	CAWR-10-17019		GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	B	SW-846:6010B	F		18.0	ug/L	15	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	B	SW-846:6010B	UF		18.1	ug/L	15	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	F		42	ug/L	1			CAWR-10-17020		GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	UF		64	ug/L	1			CAWR-10-17019		GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17020		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17019		GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-17020		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-17019		GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-17020		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	UF		3.1	ug/L	2.5	J	J	CAWR-10-17019		GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-17020		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-17019		GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	F		42.8	ug/L	30	J*	J	CAWR-10-17020		GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	UF		995	ug/L	30	*	J	CAWR-10-17019		GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-17020		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-17019		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	F		4.08	ug/L	2	J	J	CAWR-10-17020		GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	UF		90.3	ug/L	2			CAWR-10-17019		GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	F		1.87	ug/L	0.1			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	UF		1.77	ug/L	0.1			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	F		1.3	ug/L	0.5	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	UF		2.6	ug/L	0.5			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-17020		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	UF		2.0	ug/L	0.5			CAWR-10-17019		GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-17020		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-17019		GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-17020		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-17019		GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	SiO2	SW-846:6010B	UF		20.1	mg/L	0.05			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	F	<	10	ug/L	2.5	U	U	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	F		202	ug/L	1			CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	UF		218	ug/L	1			CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-17020		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-17019		GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	F		1.2	ug/L	0.05			CAWR-10-17020		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	UF		1.4	ug/L	0.05			CAWR-10-17019		GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	V	SW-846:6010B	F		2.2	ug/L	1	J	J	CAWR-10-17020		GELC		
Buckman Diversion SW	05/10/10	V	SW-846:6010B	UF		4.4	ug/L	1	J	J	CAWR-10-17019		GELC		
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-17020		GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	UF		7.7	ug/L	3.3	J	J	CAWR-10-17019		GELC	5000	EPA SEC DW LVL

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-17023	FD	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-17022	FD	GELC	100	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	F	<	200	ug/L	68	U*	UJ	CAWR-10-17023	FD	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Al	SW-846:6010B	UF		563	ug/L	68	*	J	CAWR-10-17022	FD	GELC	200	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	F	<	5.0	ug/L	1.5	U	U	CAWR-10-17023	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	As	SW-846:6020	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-17022	FD	GELC	10	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	B	SW-846:6010B	F		17.6	ug/L	15	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	B	SW-846:6010B	UF		20.1	ug/L	15	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	F		42.0	ug/L	1			CAWR-10-17023	FD	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Ba	SW-846:6010B	UF		62.6	ug/L	1			CAWR-10-17022	FD	GELC	2000	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC	4	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-17023	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-17022	FD	GELC	5	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-17023	FD	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cr	SW-846:6020	UF		2.7	ug/L	2.5	J	J	CAWR-10-17022	FD	GELC	100	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-17023	FD	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-17022	FD	GELC	1300	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	F		55.6	ug/L	30	J*	J	CAWR-10-17023	FD	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Fe	SW-846:6010B	UF		553	ug/L	30	*	J	CAWR-10-17022	FD	GELC	300	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-17023	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-17022	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	F		4.15	ug/L	2	J	J	CAWR-10-17023	FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mn	SW-846:6010B	UF		90.5	ug/L	2			CAWR-10-17022	FD	GELC	50	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	F		1.9	ug/L	0.1			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Mo	SW-846:6020	UF		1.8	ug/L	0.1			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	F		1.4	ug/L	0.5	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Ni	SW-846:6020	UF		2.5	ug/L	0.5			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-17023	FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Pb	SW-846:6020	UF		2.0	ug/L	0.5	J	J	CAWR-10-17022	FD	GELC	15	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-17023	FD	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-17022	FD	GELC	6	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-17023	FD	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-17022	FD	GELC	50	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	SiO2	SW-846:6010B	UF		17	mg/L	0.05			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	F	<	10	ug/L	2.5	U	U	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	F		204	ug/L	1			CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	Sr	SW-846:6010B	UF		218	ug/L	1			CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-17023	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-17022	FD	GELC	2	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	F		1.2	ug/L	0.05			CAWR-10-17023	FD	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	U	SW-846:6020	UF		1.4	ug/L	0.05			CAWR-10-17022	FD	GELC	30	EPA PRIM DW LVL
Buckman Diversion SW	05/10/10	V	SW-846:6010B	F		2.3	ug/L	1	J	J	CAWR-10-17023	FD	GELC		
Buckman Diversion SW	05/10/10	V	SW-846:6010B	UF		3.9	ug/L	1	J	J	CAWR-10-17022	FD	GELC		
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-17023	FD	GELC	5000	EPA SEC DW LVL
Buckman Diversion SW	05/10/10	Zn	SW-846:6010B	UF		6.5	ug/L	3.3	J	J	CAWR-10-17022	FD	GELC	5000	EPA SEC DW LVL

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteria
C84	The sample result is ≤<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated d package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for waters and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laboratory
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteria
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteria
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteria
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates a the potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <70
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than 3 times the MD(
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequen
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary w included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fithe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MD
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MD
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab_RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDA
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detect
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	Am-241	F	<	0.0251	pCi/L	0.01	0.04	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Am-241	UF	<	0.00697	pCi/L	0.01	0.032	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cs-137	F	<	-0.451	pCi/L	1.2	4	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cs-137	UF	<	0.444	pCi/L	1.4	4.8	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Co-60	F	<	-3.34	pCi/L	1.6	4.1	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Co-60	UF	<	-1.47	pCi/L	1.4	4	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSA	F	<	2	pCi/L	0.84	2		U	R11	15	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSA	UF		4.62	pCi/L	1.4	2.2				15	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSB	F	<	2.44	pCi/L	0.95	2.9		U	R11	50	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSB	UF		9.82	pCi/L	1.4	2.6				50	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSG	F	<	19.6	pCi/L	17	51	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	GROSSG	UF	<	18.8	pCi/L	15	39	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Np-237	F	<	-12.8	pCi/L	10	33	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Np-237	UF	<	-13.9	pCi/L	9.1	28	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pu-238	F	<	0.00241	pCi/L	0.01	0.034	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pu-238	UF	<	-0.0133	pCi/L	0.01	0.037	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pu-239/240	F	<	0.00481	pCi/L	0.01	0.041	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pu-239/240	UF	<	0.0133	pCi/L	0.01	0.045	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	K-40	F	<	35	pCi/L	20	27	UI	R	R5a			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	K-40	UF	<	-25.7	pCi/L	19	60	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ra-226	F	<	0.273	pCi/L	0.14	0.44	U	U	R5	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ra-226	UF	<	0.371	pCi/L	0.16	0.46	U	U	R5	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ra-228	F	<	0.438	pCi/L	0.15	0.39		U	R11	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ra-228	UF	<	0.421	pCi/L	0.15	0.41		U	R11	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Na-22	F	<	1.85	pCi/L	1.2	4.6	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Na-22	UF	<	1.3	pCi/L	0.98	3.7	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sr-90	F	<	-0.00218	pCi/L	0.1	0.39	U	U	R5	8	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sr-90	UF	<	-0.121	pCi/L	0.09	0.4	U	U	R5	8	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-228	F	<	0.0691	pCi/L	0.02	0.098	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-228	UF		0.205	pCi/L	0.03	0.1						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-230	F	<	0.0537	pCi/L	0.01	0.087	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-230	UF		0.148	pCi/L	0.02	0.091						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-232	F	<	-0.0057	pCi/L	0	0.032	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Th-232	UF		0.123	pCi/L	0.02	0.033						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	H-3	UF		18.17	pCi/L	0.61	0.287				20000	EPA PRIM DW LVL	CS		UMTL
Rio Grande at Otowi Bridge	07/30/08	U-234	F		0.962	pCi/L	0.16	0.52						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U-234	UF		1.09	pCi/L	0.17	0.49						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U-235/236	F	<	0.0588	pCi/L	0.05	0.3	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U-235/236	UF	<	0.0163	pCi/L	0.02	0.28	U	U	R5			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U-238	F		0.822	pCi/L	0.15	0.27						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U-238	UF		0.701	pCi/L	0.13	0.26						CS		GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	67-64-1	Acetone	SW-846 8260B	UF	- 50	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-05-8	Acetonitrile	SW-846 8260B	UF	- 25	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	107-02-8	Acrolein	SW-846 8260B	UF	- 5	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	107-13-1	Acrylonitrile	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	71-43-2	Benzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-86-1	Bromobenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	74-97-5	Bromochloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-27-4	Bromodichloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-25-2	Bromoform	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	74-83-9	Bromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	71-36-3	Butanol[1-]	SW-846 8260B	UF	- 20	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	78-93-3	Butanone[2-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	104-51-8	Butylbenzene[n-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-15-0	Carbon Disulfide	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	56-23-5	Carbon Tetrachloride	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-90-7	Chlorobenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	124-48-1	Chlorodibromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-00-3	Chloroethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	74-87-3	Chloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	74-95-3	Dibromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	60-29-7	Diethyl Ether	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	123-91-1	Dioxane[1,4-]	SW-846 8260B	UF	- 50	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	97-63-2	Ethyl Methacrylate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	100-41-4	Ethylbenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	87-68-3	Hexa-Chlorobutadiene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	591-78-6	Hexanone[2-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	74-88-4	Iodomethane	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	78-83-1	Isobutyl alcohol	SW-846 8260B	UF	- 50	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	98-82-8	Isopropylbenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	126-98-7	Methacrylonitrile	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	80-62-6	Methyl Methacrylate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-09-2	Methylene Chloride	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	91-20-3	Naphthalene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	107-12-0	Propionitrile	SW-846 8260B	UF	- 5	ug/L	U	R	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	103-65-1	Propylbenzene[1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	100-42-5	Styrene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	127-18-4	Tetrachloroethene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-88-3	Toluene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	79-01-6	Trichloroethene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-69-4	Trichlorofluoromethane	SW-846 8260B	UF	- 5	ug/L	U	UJ	VTS	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	75-01-4	Vinyl Chloride	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-05-4	Vinyl acetate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	95-47-6	Xylene[1,2-]	SW-846 8260B	UF	- 2	ug/L	U	U	U_LAB	CS		GRAL
Rio Grande at Otowi Bridge	07/30/08	108-38-3	Xylene[1,3-]+Xylene[1,4-]	SW-846 8260B	UF	- 2	ug/L	U	U	U_LAB	CS		GRAL

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	67-64-1	Acetone	SW-846 8260B	UF	- 50	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-05-8	Acetonitrile	SW-846 8260B	UF	- 25	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	107-02-8	Acrolein	SW-846 8260B	UF	- 5	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	107-13-1	Acrylonitrile	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	71-43-2	Benzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-86-1	Bromobenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	74-97-5	Bromochloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-27-4	Bromodichloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-25-2	Bromoform	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	74-83-9	Bromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	71-36-3	Butanol[1-]	SW-846 8260B	UF	- 20	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	78-93-3	Butanone[2-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	104-51-8	Butylbenzene[n-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	135-98-8	Butylbenzene[sec-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	98-06-6	Butylbenzene[tert-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-15-0	Carbon Disulfide	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	56-23-5	Carbon Tetrachloride	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	107-05-1	Chloro-1-propene[3-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-90-7	Chlorobenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	124-48-1	Chlorodibromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-00-3	Chloroethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	67-66-3	Chloroform	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	74-87-3	Chloromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	95-49-8	Chlorotoluene[2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	106-43-4	Chlorotoluene[4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	106-93-4	Dibromoethane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	74-95-3	Dibromomethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-71-8	Dichlorodifluoromethane	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-34-3	Dichloroethane[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	107-06-2	Dichloroethane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-35-4	Dichloroethene[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	78-87-5	Dichloropropane[1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	142-28-9	Dichloropropane[1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	594-20-7	Dichloropropane[2,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	563-58-6	Dichloropropene[1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	60-29-7	Diethyl Ether	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	123-91-1	Dioxane[1,4-]	SW-846 8260B	UF	- 50	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	97-63-2	Ethyl Methacrylate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	100-41-4	Ethylbenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	87-68-3	Hexa-Chlorobutadiene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	591-78-6	Hexanone[2-]	SW-846 8260B	UF	- 5	ug/L	U	UJ	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	74-88-4	Iodomethane	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	78-83-1	Isobutyl alcohol	SW-846 8260B	UF	- 50	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	98-82-8	Isopropylbenzene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	99-87-6	Isopropyltoluene[4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	126-98-7	Methacrylonitrile	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	80-62-6	Methyl Methacrylate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	1634-04-4	Methyl tert-Butyl Ether	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-10-1	Methyl-2-pentanone[4-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-09-2	Methylene Chloride	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	91-20-3	Naphthalene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	107-12-0	Propionitrile	SW-846 8260B	UF	- 5	ug/L	U	R	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	103-65-1	Propylbenzene[1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	100-42-5	Styrene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	127-18-4	Tetrachloroethene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-88-3	Toluene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	71-55-6	Trichloroethane[1,1,1-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	79-00-5	Trichloroethane[1,1,2-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	79-01-6	Trichloroethene	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-69-4	Trichlorofluoromethane	SW-846 8260B	UF	- 5	ug/L	U	UJ	VTS	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	96-18-4	Trichloropropane[1,2,3-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	75-01-4	Vinyl Chloride	SW-846 8260B	UF	- 1	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-05-4	Vinyl acetate	SW-846 8260B	UF	- 5	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	95-47-6	Xylene[1,2-]	SW-846 8260B	UF	- 2	ug/L	U	U	U_LAB	CS	FTB	GRAL
Rio Grande at Otowi Bridge	07/30/08	108-38-3	Xylene[1,3-]+Xylene[1,4-]	SW-846 8260B	UF	- 2	ug/L	U	U	U_LAB	CS	FTB	GRAL

Table 3.0
Rio Grande at Otowi Bridge
Semi-volatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	62-53-3	Aniline	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	120-12-7	Anthracene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.1	ug/L	U	R	SV7b	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	92-87-5	Benzidine	SW-846:8270C	UF	<	10.1	ug/L	U	UJ	SV7a	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.2	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	218-01-9	Chrysene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.2	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	86-73-7	Fluorene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	78-59-1	Isophorone	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.1	ug/L	U	UJ	SV7a	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.1	ug/L	U	UJ	SV7c	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	108-95-2	Phenol	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	129-00-0	Pyrene	SW-846:8270C	UF	<	1.01	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	110-86-1	Pyridine	SW-846:8270C	UF	<	10.1	ug/L	U	UJ	SV7c	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.1	ug/L	U	U	U_LAB	CS		GELC

Table 4.0
Rio Grande at Otowi Bridge
PCBs and Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.1	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.2	ug/L	U	U	U_LAB	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	8001-35-2	Toxaphene	SW-846:8081A	UF	<	0.5	ug/L	U	U	U_LAB	CS		GELC

Table 5.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	ALK-CO3	EPA:310.1	UF	<	1	mg/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	ALK-CO3+HCO3	EPA:310.1	UF		98.7	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	NH3-N	EPA:350.1	UF	<	0.05	mg/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ca	SW-846:6010B	F		32	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ca	SW-846:6010B	UF		30.3	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cl(-1)	EPA:300.0	UF		4.2	mg/L				250	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	U	U	U_LAB	0.2	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	DO	Generic Field Measurement	UF		7.02	mg/L						CS		FLD
Rio Grande at Otowi Bridge	07/30/08	F(-1)	EPA:300.0	UF		0.345	mg/L				4	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	HARDNESS	SM:A2340B	F		105	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	HARDNESS	SM:A2340B	UF		99.1	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mg	SW-846:6010B	F		6.1	mg/L	E					CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mg	SW-846:6010B	UF		5.71	mg/L	E					CS		GELC
Rio Grande at Otowi Bridge	07/30/08	NO3+NO2-N	EPA:353.2	UF		0.0566	mg/L				10	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	ClO4	SW-846:6850	UF		0.0619	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	K	SW-846:6010B	F		2.47	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	K	SW-846:6010B	UF		2.48	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Na	SW-846:6010B	F		14.4	mg/L				20		CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Na	SW-846:6010B	UF		13.2	mg/L				20		CS		GELC
Rio Grande at Otowi Bridge	07/30/08	SPEC_CONDC	EPA:120.1	UF		267	uS/cm						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	SPEC_CONDC	GENERIC FIELD CONDUC	UF		260	uS/cm						CS		FLD
Rio Grande at Otowi Bridge	07/30/08	SO4(-2)	EPA:300.0	UF		30.6	mg/L				250	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	SSC	EPA:160.2	UF		196	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	TEMP	FIELD TEMP	UF		22.5	deg C						CS		FLD
Rio Grande at Otowi Bridge	07/30/08	TDS	EPA:160.1	UF		176	mg/L				500	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	TKN	EPA:351.2	UF	<	0.1	mg/L	U	R	I6			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	TOC	SW-846:9060	UF		3.53	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	PO4-P	EPA:365.4	UF		0.158	mg/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	TURB	GENERIC FIELD TURBIDITY	UF		121	NTU						CS		FLD
Rio Grande at Otowi Bridge	07/30/08	pH	GENERIC FIELD PH	UF		7.95	SU				6.5-8.5	EPA SEC DW LVL	CS		FLD
Rio Grande at Otowi Bridge	07/30/08	pH	EPA:150.1	UF		8.25	SU	H	J-	I9a	6.5-8.5	EPA SEC DW LVL	CS		GELC

Table 6.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	Ag	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ag	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	100	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Al	SW-846:6010B	F	<	200	ug/L	UN*	UJ	I6b	200	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Al	SW-846:6010B	UF		1430	ug/L	N*	J+	I6b	200	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	As	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	As	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	10	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	B	SW-846:6010B	F		25.8	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	B	SW-846:6010B	UF		30.6	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ba	SW-846:6010B	F		60.2	ug/L				2000	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ba	SW-846:6010B	UF		63.1	ug/L				2000	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Be	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Be	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB	4	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cd	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cd	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	5	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Co	SW-846:6010B	F	<	5	ug/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Co	SW-846:6010B	UF	<	5	ug/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cr	SW-846:6020	F		3	ug/L	J	J	J_LAB	100	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cr	SW-846:6020	UF		3.3	ug/L				100	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cu	SW-846:6010B	F	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Cu	SW-846:6010B	UF	<	10	ug/L	U	U	U_LAB	1300	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Fe	SW-846:6010B	F	<	100	ug/L	U*	UJ	I10a	300	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Fe	SW-846:6010B	UF		912	ug/L	*	J	I10a	300	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Hg	EPA:245.2	F	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Hg	EPA:245.2	UF	<	0.2	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mn	SW-846:6010B	F		2.7	ug/L	J*	J	J_LAB	50	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mn	SW-846:6010B	UF		34.5	ug/L	*			50	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mo	SW-846:6020	F		4.1	ug/L		J	I4a			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Mo	SW-846:6020	UF		4.2	ug/L		J	I4a			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ni	SW-846:6020	F		1.1	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Ni	SW-846:6020	UF		1.9	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pb	SW-846:6020	F	<	2	ug/L	U	U	U_LAB	15	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Pb	SW-846:6020	UF		1	ug/L	J	J	J_LAB	15	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sb	SW-846:6020	F	<	2	ug/L	U	U	U_LAB	6	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sb	SW-846:6020	UF	<	0.96	ug/L	J	U	I4	6	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Se	SW-846:6020	F	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Se	SW-846:6020	UF	<	5	ug/L	U	U	U_LAB	50	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	SiO2	SW-846:6010B	UF		26.6	mg/L	N*	J+	I6b			CS		GELC
Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	07/30/08	Sn	SW-846:6010B	F	<	100	ug/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sn	SW-846:6010B	UF	<	100	ug/L	U	U	U_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sr	SW-846:6010B	F		230	ug/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Sr	SW-846:6010B	UF		216	ug/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Tl	SW-846:6020	F	<	1	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Tl	SW-846:6020	UF	<	1	ug/L	U	U	U_LAB	2	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U	SW-846:6020	F		1.8	ug/L				30	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	U	SW-846:6020	UF		2	ug/L				30	EPA PRIM DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	V	SW-846:6010B	F		3.5	ug/L	J	J	J_LAB			CS		GELC
Rio Grande at Otowi Bridge	07/30/08	V	SW-846:6010B	UF		6.6	ug/L						CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Zn	SW-846:6010B	F		3.8	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS		GELC
Rio Grande at Otowi Bridge	07/30/08	Zn	SW-846:6010B	UF		6.1	ug/L	J	J	J_LAB	5000	EPA SEC DW LVL	CS		GELC

August 20, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 08-1597; CAWR-08 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 08-1597; CAWR-08 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, each received in two water filled 1-galon jugs, were air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager

Enclosure

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1] (θ, ρ_d, ϕ)	Saturated Hydraulic Conductivity[2]		Moisture Characteristics[3]					Unsaturated Hydraulic Conductivity	Particle Size[4]			Effective Porosity	Particle Density	Air Permeability	1/3, 15 Bar Points and Water Holding Capacity	Atterberg Limits	Proctor Compaction
		CH	FH	HC	PP	TH	WP	RH		DS	WS	H						
CAWR-08-12212											X							
CAWR-08 12214											X							
CAWR-08 12216											X							

[1] θ = Initial moisture content, ρ_d = Dry bulk density, ϕ = Calculated porosity
[2] CH = Constant head, FH = falling head
[3] HC = Hanging column, PP = Pressure plate, TH = Thermocouple psychrometer, WP = Water activity meter, RH = Relative humidity box
[4] DS = Dry sieve, WS = Wet sieve, H = Hydrometer

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08-12212	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12214	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 12216	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Particle Size Analysis

-RIO GRANDE @ OTOWI BRIDGE—

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08-12212
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.35
Weight Passing #10 (g): 2.35
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.35
Calculated Weight of Sieve Sample (g): 2.35

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.35	100.00
	2"	50	0.00	0.00	2.35	100.00
	1.5"	38.1	0.00	0.00	2.35	100.00
	1"	25	0.00	0.00	2.35	100.00
	3/4"	19.0	0.00	0.00	2.35	100.00
	3/8"	9.5	0.00	0.00	2.35	100.00
	4	4.75	0.00	0.00	2.35	100.00
	10	2.00	0.00	0.00	2.35	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.35	100.00
	40	0.425	0.02	0.02	2.33	99.15
	60	0.250	0.02	0.04	2.31	98.30
	140	0.106	0.04	0.08	2.27	96.60
	200	0.075	0.05	0.13	2.22	94.47
	dry pan		0.01	0.14	2.21	
	wet pan			2.21	0.00	

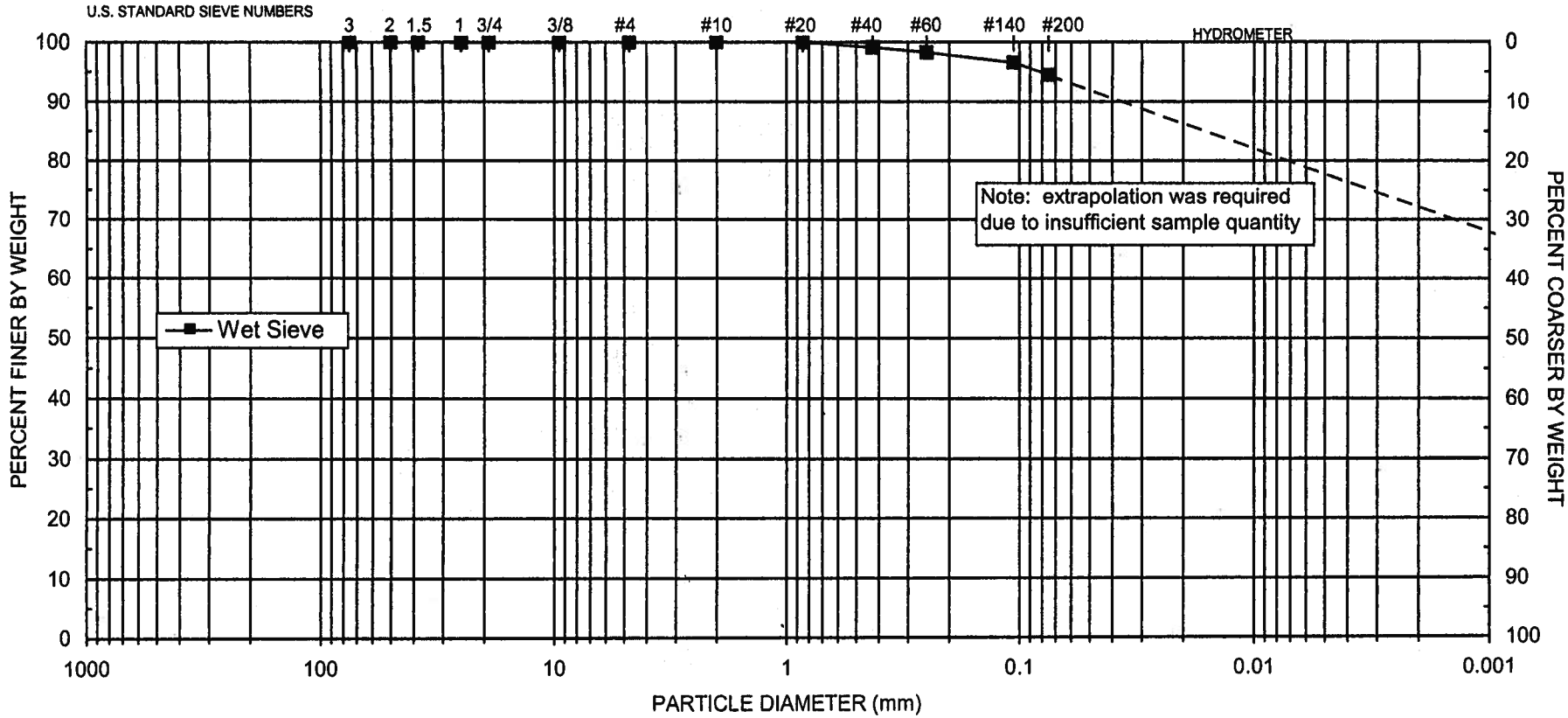
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08-12212	NA	NA - See note on previous page	NA

— RIO GRANDE @ BUCKMAN —

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12216
Ring Number: NA
Depth: NA

Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.46
Weight Passing #10 (g): 2.46
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.46
Calculated Weight of Sieve Sample (g): 2.46

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.46	100.00
	2"	50	0.00	0.00	2.46	100.00
	1.5"	38.1	0.00	0.00	2.46	100.00
	1"	25	0.00	0.00	2.46	100.00
	3/4"	19.0	0.00	0.00	2.46	100.00
	3/8"	9.5	0.00	0.00	2.46	100.00
	4	4.75	0.00	0.00	2.46	100.00
	10	2.00	0.00	0.00	2.46	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.46	100.00
	40	0.425	0.01	0.01	2.45	99.59
	60	0.250	0.00	0.01	2.45	99.59
	140	0.106	0.11	0.12	2.34	95.12
	200	0.075	0.21	0.33	2.13	86.59
	dry pan		0.05	0.38	2.08	
	wet pan			2.08	0.00	

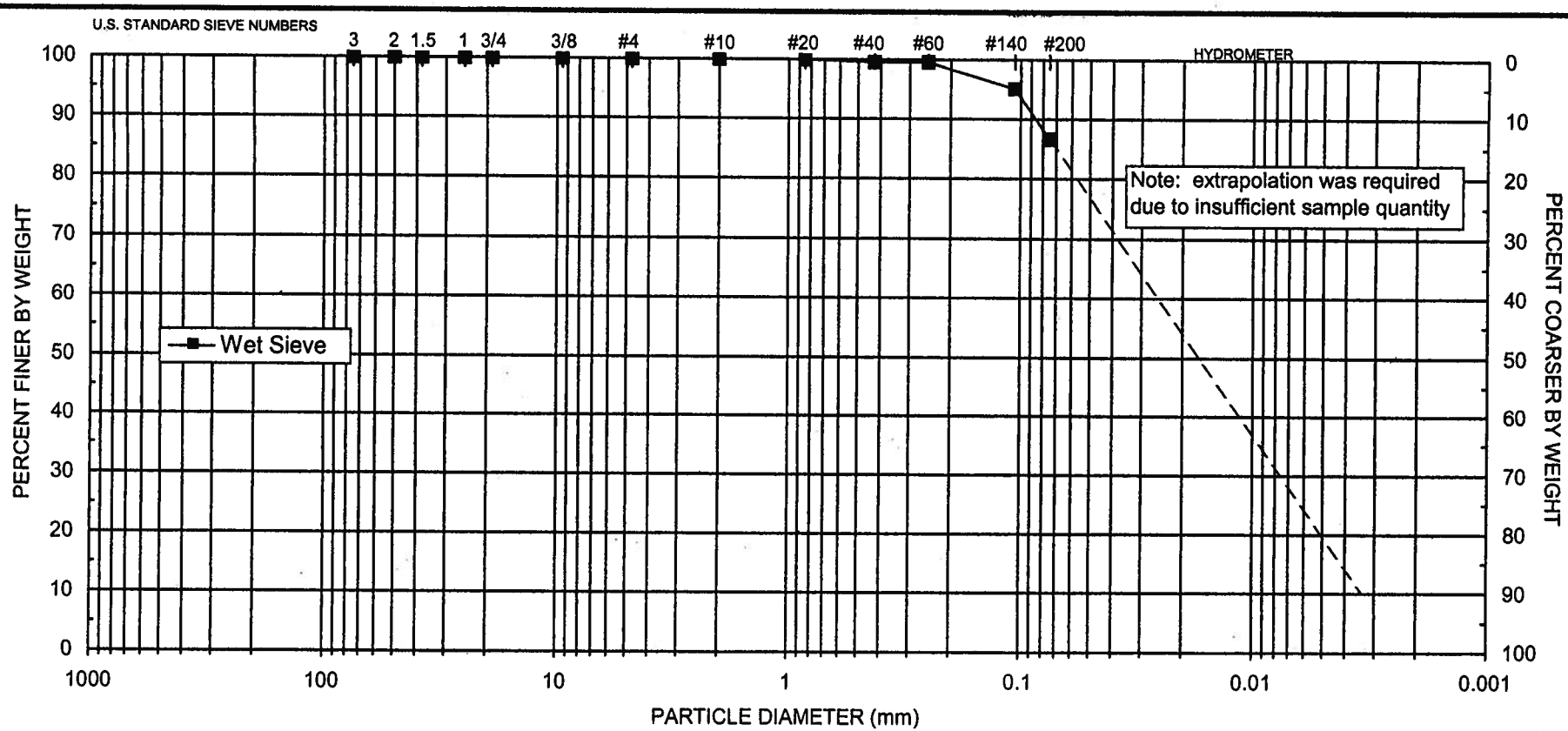
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter – d_{50} (mm): NA
Uniformity Coefficient, Cu – $[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc – $[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter – $[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY				
		Coarse	Fine	Coarse	Medium	Fine					
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine			

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12216	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

-RIO GRANDE @ BUCKMAN-
-FIELD DUPLICATE-

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0143.00
Sample Number: CAWR-08 12214
Ring Number: NA
Depth: NA
Test Date: 14-Aug-08

Initial Dry Weight of Sample (g): 2.45
Weight Passing #10 (g): 2.45
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 2.45
Calculated Weight of Sieve Sample (g): 2.45

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	2.45	100.00
	2"	50	0.00	0.00	2.45	100.00
	1.5"	38.1	0.00	0.00	2.45	100.00
	1"	25	0.00	0.00	2.45	100.00
	3/4"	19.0	0.00	0.00	2.45	100.00
	3/8"	9.5	0.00	0.00	2.45	100.00
	4	4.75	0.00	0.00	2.45	100.00
	10	2.00	0.00	0.00	2.45	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	2.45	100.00
	40	0.425	0.01	0.01	2.44	99.59
	60	0.250	0.00	0.01	2.44	99.59
	140	0.106	0.17	0.18	2.27	92.65
	200	0.075	0.25	0.43	2.02	82.45
	dry pan		0.04	0.47	1.98	
	wet pan			1.98	0.00	

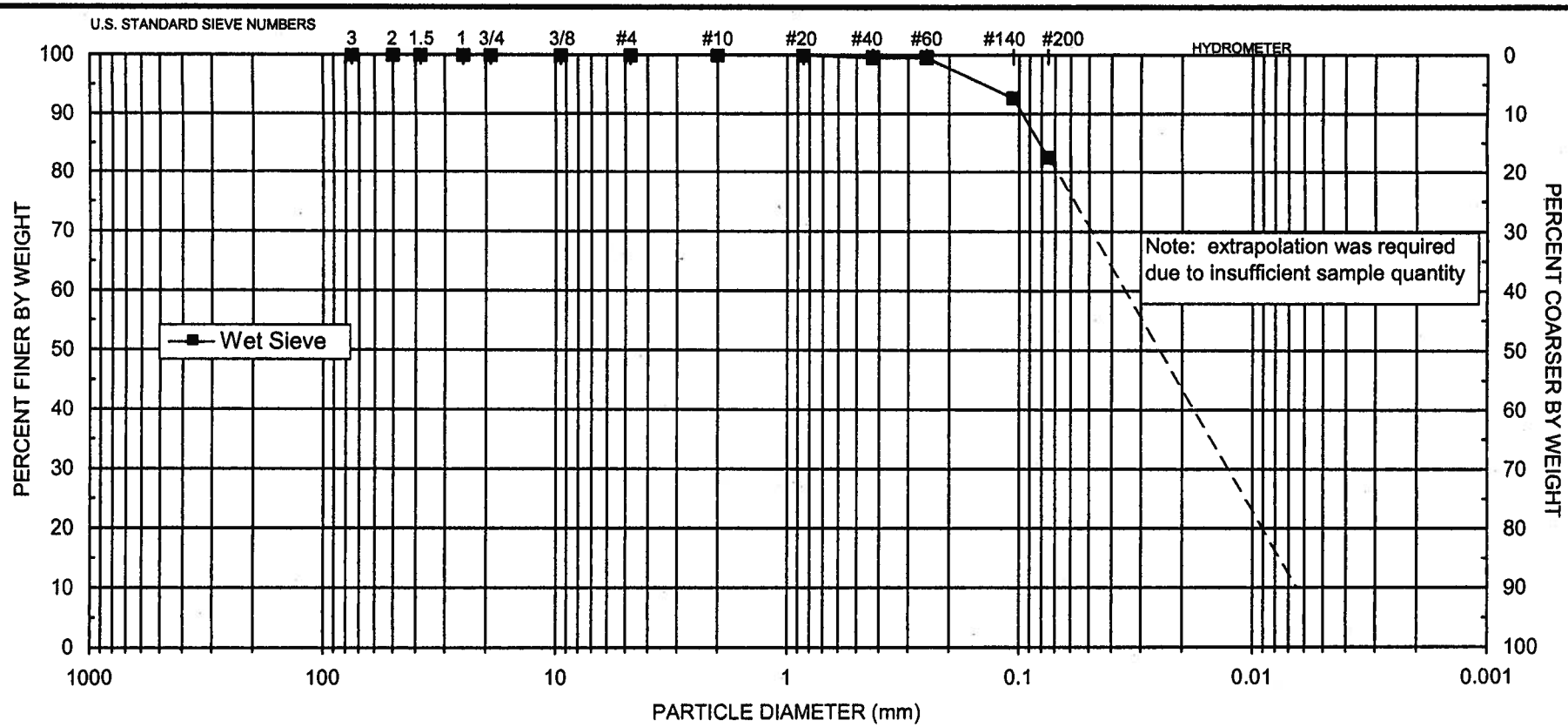
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd/R. Marshall
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY				
		Coarse	Fine	Coarse	Medium	Fine					
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine			

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 12214	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Table 55-5 Laboratory Qualification Codes

Lab Qual	Club Qual	Desc
*		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**		** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
		* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up
		range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E)
*E		(Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
B		Instrument Detection Limit but less than the Contract Required Detection Limit.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
B*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
		acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this
		analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as
B*E		explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
BE		analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BE*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
BEN		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial
		calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for
		analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N)
		(Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis
BEN*		was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
BJ		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compos
BJN		(TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
BJP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method
		Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
BJPX		analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
BN		The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside
BN*		acceptance criteria.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) -
		The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument
		initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result
BNE		for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
BP		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and
		secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for
		this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The
BPX		result for this analyte should be regarded as not detected.
		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than I
		Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was
BW		outside acceptance criteria.
BX		(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D		(D) (Organic) - The result for this analyte was reported from a dilutio
		(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li
DJ		(MDL) but less than the Practical Quantitaion Limit (PQL).
DNA		did not analyze due to broken equipment
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
DP		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
		(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary
		columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte
		between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this
DPX		analyte should be regarded as not detected.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E		narrative.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
E*		narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
EJ		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL
EJ*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
EJN		criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN		acceptance criteria.
		(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial
		dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case
		narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside
EN*		acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora
		Control Sample analysis was outside acceptance criteria.
H*		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
HJ		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre
		than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was
HJ*		outside acceptance criteria.
		(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to
I		reported interference.
		(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla
		since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below
INS		detection limit.
J		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL)
J*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN		criteria.
		(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PC
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance
JN*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
JP		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P)
		(Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
JPX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
		(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
JX		(Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L		(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are preser
LT		(LT) (Rad) - The result for this analyte is affected by spectral interferenc
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N		criteria.
		(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptai
N*		criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
P		secondary HPLC detectors were greater than 40% difference.
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
		secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL)
PJ		but less than the Practical Quantitaion Limit (PQL).
		(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method
		8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and
PX		secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q		(Q) The result for this analyte was reported at an elevated reporting lim
R		(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI		(SI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
SQ		(SQ) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
TI		(TI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification due to spectral interferenc
U		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal
U*		was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
UE		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilu
		analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. *
UE*		(Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of
		instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) -
		The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound
UEN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH		this result was exceeded.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time
UH*		this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI		(UI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identificatio
UJ		(UJ) (Organic) Legacy CST lab code should not be used
		UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th
UL		symbol without the laboratory assigning a U lab code.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
UN		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compos
		(TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory
UN*		Replicate analysis was outside acceptance criteria.
UUI		(UUI) (Rad) - Gamma spectroscopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
		(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest
UW		spike sample was outside acceptance criteria.
UY2		(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferenc
W		(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
		(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank
XB		and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Table S5-6.

Valid Flag C
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Table S5-7 Secondary Validation Reason Codes

Valid Reasc	Valid Reason Desc
C12d	VOC_C12d
DR12a	ORGANIC_ODRO12a
DR3b	ORGANIC_ODRO3b
DR9a	ORGANIC_ODRO9a
G_LIA	The sample was lost in analysis. Results are not available for this sampl
G_MDA	The limit type (e.g. MDA, MDC, or DLC) was not reported by the analytical laboratory; the reported limit value has been saved in the MDA field.
G_NQ	No data qualifier flag has been applied to this sample resu
G_TPU	Result less than or equal to 3 * 1-sigma TPU; therefore not detected (U
G166b	GAMMA_GR166
G166c	GAMMA_GR166
G16b	GAMMA_G16
G16bc	GAMMA_GR16b
G16c	GAMMA_G16
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
G6a	GAMMA_G6
G6ra	GAMMA_G6r
GADM1	GAMMA_GADMIN
GADMI	GAMMA_GADMIN
GCZ	CST put zeros in the TPU field to indicate non-detects, therefore not detected (L
GI16b	GAMMA_GI16
GI16c	GAMMA_GI16
GI16d	GAMMA_GI16
GI4	GAMMA_GI
GI5	GAMMA_GI
GIQ	GIQ
GIR16	GAMMA_GIR16
GJCST	Chemical Sciences and Technology validators assigned a J qualifier to this sample result. The hardcopy validation report should be reviewed to determine the reason for applying the J qualifier.
GJLAB	GJLAB_GAMMA
GLCS	The percent recovery from the laboratory control sample for this analyte was less than 10
GNONE	A reason code is not available in the database for the data qualifier(s) applied to this sample res
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectr
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitate
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR10	GAMMA_GR10
GR10a	GAMMA_GR10a
GR11	GAMMA_GR1
GR15b	GAMMA_GR15
GR15c	GAMMA_GR15
GR16	GAMMA_GR1
GR165	GAMMA_GR165
GR166	GAMMA_GR16
GR16a	GAMMA_GR16
GR16b	GAMMA_GR16
GR16c	GAMMA_GR16
GR16d	GAMMA_GR16
GR16g	GAMMA_GR16
GR17c	GAMMA_GR17
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3a	ORGANIC_OGRO3a
GR3b	ORGANIC_OGRO3b
GR3c	ORGANIC_OGRO3c
GR3d	ORGANIC_OGRO3d
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4	GAMMA_GR
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5	GAMMA_GR
GR54	GAMMA_GR5
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR5b	GR5b
GR6	GAMMA_GR
GR6a	GR6a
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR6e	GR6e
GR7	GAMMA_GR
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7b	GAMMA_GR7
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GR8	GAMMA_GR
GR9	GAMMA_GR
GR9a	GAMMA_GR9
GR9b	GAMMA_GR9
GRA	GAMMA_GR
GRLAB	R Lab Gamma
GRNA	GAMMA_GRN
GRR16	GAMMA_GRR16
GRR1b	GAMMA_GRR1
GRR6c	GAMMA_GRR16
GSI	The reported result for this radionuclide should be regarded as rejected (R) due to spectral interference in the gamma spectr
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUJC	This analyte should be regarded as not detected because the analytical laboratory assigned a U lab qualifier. Chemical Sciences and Technology validators assigned the J qualifier. The hardcopy validation report should be reviewed to determine the reason for applying the J qualifier.
GULAB	This analyte should be regarded as not detected because the analytical laboratory assigned a U lab quali
GUP_R	Gamma:Units and matrix inconsistent
GZR	The result for this radionuclide was reported as zero (0); therefore this analyte should be regarded as not detect
GZUNC	Chemical Sciences and Technology division reported this result with an uncertainty value of zero(0), indicating that this analyte should be regarded as not detected.
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	H12a
H12b	HEXP_H12b
H12c	HEXP_H12c
H12d	HEXP_H12c
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3c	The reporting limit is approximated for nondetects because a surrogate percent recovery is lower than the LAL but greater than or equal to 10%R, which indicates an increased potential for false negative results.
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6a	HEXP_H6a
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxin and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6c	H6c
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7a	HEXP_H7a
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	HEXP_H8
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	H9a
H9b	HEXP_H9b
H9a	HEXP_H9a
HEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
HERB	ORGANIC_HERB 3A
HERB1	ORGANIC_HERB12A
HERB3	ORGANIC_HERB3
HERB4	ORGANIC_HERB4
HERB8	ORGANIC_HERB8
HERB9	ORGANIC_HERB9
HHOLD	The result should regarded as rejected (R) because the holding time was exceeded by more than 2 time
HJCST	CST assigned the J qualifier, need hard-copy to determine CST's reaso
HNONE	No reason for historic HEXP data
HNQ	HNQ
HQCBL	The J or R qualifier should not be accepted because the qualifier was assigned by CST based on a non-certified standard. The J or R qualifier should be ignored.
HR12a	ORGANIC_HERB12A
HR12b	ORGANIC_HERB12B
HR12c	ORGANIC_HERB12C
HR12d	ORGANIC_HERB12D
HR3a	ORGANIC_HERB 3A
HR3b	ORGANIC_HERB 3D
HR3d	ORGANIC_HERB3D
HR9	ORGANIC_HERB 9
HRLAB	R Lab HEXP
HSM	HEXP_SPECTRAL MATCH
HUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
HUJL	HUJL
HUJLA	HUJLA_HEXP
HULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I	INORGANIC_
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The affected analytes should be regarded as estimated because the duplicate results were not analyzed on a LANL samp
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremen
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I110	INORGANIC_I110
I113a	INORGANIC_I113
I114b	INORGANIC_I114
I13	INORGANIC_I13
I134b	INORGANIC_I134
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I13d	INORGANIC_I13
I14	I14
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hi
I16b	INORGANIC_I16
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I17d	INORGANIC_I17
I18	The affected analytes should be regarded as estimated because a serial dilution sample was not analyze
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I18b	The affected analytes should be regarded as estimated because the serial dilution sample RPD exceeded criter
I19	INORGANIC_I1
I1a	INORGANIC_I1
I20	INORGANIC_I2
I24b	INORGANIC_I24
I2h	INORGANIC_I2
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3b	INORGANIC_I3
I3c	INORGANIC_I3
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3e I	INORGANIC_I3e I
I3eI4	INORGANIC_I3e I
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I3j	INORGANIC_I3
I3l	INORGANIC_I3
I4	INORGANIC_I
I4a	In comparison with the preparation blank, the sample result is greater than the EDL but less than or equal to five times the concentration of the related analyte in the blank.
I4b	Preparation blank data was not reported by the analytical laborato
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
IADM1	INORGANIC_IADMIN
IADMI	INORGANIC_IADMIN
IB	Instrument broken
ICST2	CST put zeros in the TPU field to indicate non-detects, therefore not detected (L
Id	INORGANIC_I
IDRPD	IDRPD
IEQL	INORGANIC_IEQL/MD
IEQLI	INORGANIC_IEQL/MD
IH6a	INORGANIC_IH6
IHOLD	IHOLD
IICP	IICP
IJCST	CST assigned the J qualifier, need hard-copy to determine CST's reaso
IJLAB	IJLAB
ILCS	ILCS
ILIA	ILIA
ILOWS	VOC_LOWSTD
ILS	VOC_LOW STD
IMS10	IMS10
IMS30	IMS30
INONE	No Reason for historical inorganic dat
INQ	INQ
IPM	INORGANIC_IPM
IQCBL	IQCBL
IR10b	INORGANIC_IR10
IR14b	INORGANIC_IR14
IR3	INORGANIC_IR
IR3a	INORGANIC_IR3
IR4	INORGANIC_IR
IR5	INORGANIC_IR
IR6a	INORGANIC_IR6
IR7	INORGANIC_IR
IR8a	INORGANIC_IR8
IR8b	INORGANIC_IR8
IRCST	CST assigned the R qualifier, need hard-copy to determine CST's reaso
Is	INORGANIC_I
IUJ1	INORGANIC_IUJ
IUJ3e	INORGANIC_IUJ3
IUJA	INORGANIC_IUJ
IUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
IUJLA	IUJLA
IULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
IUP_R	Inorganic:Units and matrix inconsistent
IUUJ	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
IV3a	INORGANIC_IV3
IWQ1	The sample temperature was elevated
IWQ2	Negative blank samples results were greater than the MD
IWQ3	Failed serial dilution RPD
IWQ4	Sample should have been preserved by acidification, but was not. Error not corrected at laborato
IWQ5	Sample should not have been acidified, but was. Error could not be corrected at laborato
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
IZR	IZR
J-	VOC_J-
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
J+	VOC_J+
LB	Gross contamination exists from a source other than the standard
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the blar
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criter
LMS1	An applicable MS/MSD analysis was not performe
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LOW S	VOC_LOW STD
LOWST	VOC_LOWSTD
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
MDL	ORGANIC_OEQL/MDL
N3TPU	NONE_<3*TPU Result less than or equal to 3 * 1-sigma TPU, therefore not detected (L
NJCST	NONE_J_CST
NJLAB	NONE_J_LAB
NND	NONE_NONDETECT
NNQ	NONE_NQ
NQ	The analytical laboratory did not qualify the analyte as not detected and/or any other standard qualifire. The analyte is detected in the sample.
NS12a	SVOC_SVV12a
NS12c	SVOC_SVV12c
NS1a	SVOC_SVV51a
NUA	NONE_NUA
NULAB	NONE_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
NUP_R	Units and matrix inconsistent
O12d	ORGANIC_OSV12c
OEXBL	ORGANIC_OEXBLANK
ODRO1	ORGANIC_ODRO12a
ODRO3	ORGANIC_ODRO3
ODRO4	ORGANIC_ODRO4
ODRO5	ODRO5_ORGANIC
ODRO7	ODRO7_ORGANIC
ODRO9	ORGANIC_ODRO9
OEQL/	ORGANIC_OEQL/MDL
OGR3b	OGR3b_ORGANIC
OGR3c	OGR3c_ORGANIC
OGRO3	ORGANIC_OGRO3
OGRO7	OGRO7_ORGANIC
OGRO9	ORGANIC_OGRO9
OH12b	ORGANIC_OH12b
OH9	ORGANIC_OH9
OI3	ORGANIC_OI3
OI4	ORGANIC_OI4
OI9	ORGANIC_OI9
ONONE	ORGANIC_ONONE
ONQ	ONQ
OP12a	ORGANIC_OP12a
OP12b	ORGANIC_OP12b
OP3	ORGANIC_OP3
OP3a	ORGANIC_OP3a
OP3b	ORGANIC_OP3b
OP3c	ORGANIC_OP3c
OP3d	ORGANIC_OP3d
OP4	ORGANIC_OP4
OP5	ORGANIC_OP5
OP6	ORGANIC_OP6
OP7	ORGANIC_OP7
OP7a	ORGANIC_OP7a
OP9	ORGANIC_OP9
OP9a	OP9a Organic
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12c
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'--DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatic
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif

PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60!
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repc
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60!
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the M
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MD
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analy
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repc
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for us
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detect
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the porential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60!
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repc
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60!
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
V6c	VOC_V6c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60!
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repc
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60!
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C84	The sample result is =<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is =<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitat
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is =5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and =2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60'
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is =<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is =< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is =<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PC
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75'
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60'
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 2x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60'
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a ndior the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60'
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12a
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluate
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_Pv3
PV4	PESTPCB_Pv4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MI
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI54a	RAD_RI54a
RI54b	RAD_RI54b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the porential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Buckman
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Buckman Diversion SW	09/29/08	Am-241	HASL-300:AM-241	F	<	-0.006	pCi/L	0.007	0.031	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Am-241	HASL-300:AM-241	UF	<	0.017	pCi/L	0.009	0.032	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Co-60	EPA:901.1	F	<	2.29	pCi/L	1.2	4.5	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Co-60	EPA:901.1	UF	<	0.344	pCi/L	1.2	4.0	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Cs-137	EPA:901.1	F	<	0.735	pCi/L	2.0	3.7	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Cs-137	EPA:901.1	UF	<	-0.658	pCi/L	1.3	4.3	U	U	R5			GELC
Buckman Diversion SW	09/29/08	GROSSA	EPA:900	F		3.77	pCi/L	1.1	2.2				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	GROSSA	EPA:900	UF		4.38	pCi/L	1.3	2.5				15	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	GROSSB	EPA:900	F		2.90	pCi/L	0.9	2.8				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	09/29/08	GROSSB	EPA:900	UF		4.49	pCi/L	1.1	2.9				50	EPA SEC DW LVL	GELC
Buckman Diversion SW	09/29/08	GROSSG	EPA:901.1	F	<	7.41	pCi/L	10.0	26	U	U	R5			GELC
Buckman Diversion SW	09/29/08	GROSSG	EPA:901.1	UF	<	14.4	pCi/L	13	16	U	U	R5			GELC
Buckman Diversion SW	09/29/08	H-3	Generic:Low_Level_Tritium	UF		18.04	pCi/L	0.57	0.29				20000	EPA PRIM DW LVL	UMTL
Buckman Diversion SW	09/29/08	K-40	EPA:901.1	F	<	-27.7	pCi/L	18.0	58	U	U	R5			GELC
Buckman Diversion SW	09/29/08	K-40	EPA:901.1	UF	<	-26.5	pCi/L	16.0	49	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Na-22	EPA:901.1	F	<	0.289	pCi/L	1.1	3.8	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Na-22	EPA:901.1	UF	<	-2.7	pCi/L	1.3	3.4	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Np-237	EPA:901.1	F	<	-19.5	pCi/L	10.0	30	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Np-237	EPA:901.1	UF	<	-1.22	pCi/L	9.9	32	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Pu-238	HASL-300:ISOPU	F	<	0.00169	pCi/L	0.01	0.026	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Pu-238	HASL-300:ISOPU	UF	<	0.0146	pCi/L	0.01	0.022	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Pu-239/240	HASL-300:ISOPU	F	<	0.000	pCi/L	0.003	0.029	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Pu-239/240	HASL-300:ISOPU	UF	<	0.007	pCi/L	0.004	0.025	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Ra-226	EPA:903.1	F		0.86	pCi/L	0.27	0.70				5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Ra-226	EPA:903.1	UF		1.2	pCi/L	0.33	0.77				5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Ra-228	EPA:904	F	<	0.324	pCi/L	0.23	0.75	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Ra-228	EPA:904	UF	<	0.307	pCi/L	0.22	0.72	U	U	R5	5	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Sr-90	EPA:905.0	F	<	-0.115	pCi/L	0.11	0.46	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Sr-90	EPA:905.0	UF	<	0.152	pCi/L	0.13	0.45	U	U	R5	8	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Th-228	HASL-300:ISOTH	F	<	0.023	pCi/L	0.01	0.10	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Th-228	HASL-300:ISOTH	UF		0.241	pCi/L	0.03	0.085						GELC
Buckman Diversion SW	09/29/08	Th-230	HASL-300:ISOTH	F	<	0.029	pCi/L	0.01	0.089	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Th-230	HASL-300:ISOTH	UF		0.237	pCi/L	0.03	0.078						GELC
Buckman Diversion SW	09/29/08	Th-232	HASL-300:ISOTH	F	<	0.001	pCi/L	0.002	0.033	U	U	R5			GELC
Buckman Diversion SW	09/29/08	Th-232	HASL-300:ISOTH	UF		0.22	pCi/L	0.02	0.028						GELC
Buckman Diversion SW	09/29/08	U-234	HASL-300:ISOU	F		0.769	pCi/L	0.06	0.073						GELC
Buckman Diversion SW	09/29/08	U-234	HASL-300:ISOU	UF		0.822	pCi/L	0.06	0.066						GELC
Buckman Diversion SW	09/29/08	U-235/236	HASL-300:ISOU	F	<	0.0256	pCi/L	0.01	0.038	U	U	R5			GELC
Buckman Diversion SW	09/29/08	U-235/236	HASL-300:ISOU	UF	<	0.0326	pCi/L	0.01	0.034	U	U	R5			GELC
Buckman Diversion SW	09/29/08	U-238	HASL-300:ISOU	F		0.532	pCi/L	0.05	0.04						GELC
Buckman Diversion SW	09/29/08	U-238	HASL-300:ISOU	UF		0.611	pCi/L	0.05	0.037						GELC

Table 2.0
Rio Grande at Buckman
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	09/29/08	67-64-1	Acetone	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	R	V7b		GELC
Buckman Diversion SW	09/29/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Buckman Diversion SW	09/29/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Buckman Diversion SW	09/29/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Buckman Diversion SW	09/29/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	107-12-0	Propanenitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b		GELC
Buckman Diversion SW	09/29/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	09/29/08	67-64-1	Acetone	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	09/29/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Buckman Diversion SW	09/29/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	09/29/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	09/29/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Buckman Diversion SW	09/29/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	107-12-0	Propanenitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b	FTB	GELC
Buckman Diversion SW	09/29/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Buckman Diversion SW	09/29/08	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Buckman
Semi-volatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Buckman Diversion SW	09/29/08	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	62-53-3	Aniline	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	120-12-7	Anthracene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.4	ug/L	U	R	SV7b	GELC
Buckman Diversion SW	09/29/08	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	92-87-5	Benzidine	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.04	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.8	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	218-01-9	Chrysene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.04	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.8	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Buckman Diversion SW	09/29/08	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	86-73-7	Fluorene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.04	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	78-59-1	Isophorone	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7a	GELC
Buckman Diversion SW	09/29/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.4	ug/L	U	UJ	SV7c	GELC
Buckman Diversion SW	09/29/08	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	108-95-2	Phenol	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	129-00-0	Pyrene	SW-846:8270C	UF	<	1.04	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	110-86-1	Pyridine	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC
Buckman Diversion SW	09/29/08	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.4	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Buckman
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code
Buckman Diversion SW	09/29/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	UJ	GELC
Buckman Diversion SW	09/29/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.043	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.022	ug/L	0.01	U	U	GELC
Buckman Diversion SW	09/29/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.215	ug/L	0.05	U	U	GELC
Buckman Diversion SW	09/29/08	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.538	ug/L	0.16	U	U	GELC

Table 5.0
Rio Grande at Buckman
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Fld Prep Code	Analyte	Analyte Desc	Anyl Meth Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	09/29/08	F	12674-11-2	Aroclor-1016	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	12674-11-2	Aroclor-1016	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	11104-28-2	Aroclor-1221	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	11104-28-2	Aroclor-1221	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	11141-16-5	Aroclor-1232	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	11141-16-5	Aroclor-1232	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	53469-21-9	Aroclor-1242	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	53469-21-9	Aroclor-1242	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	12672-29-6	Aroclor-1248	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	12672-29-6	Aroclor-1248	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	11097-69-1	Aroclor-1254	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	11097-69-1	Aroclor-1254	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	11096-82-5	Aroclor-1260	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	11096-82-5	Aroclor-1260	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	F	37324-23-5	Aroclor-1262	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC
Buckman Diversion SW	09/29/08	UF	37324-23-5	Aroclor-1262	SW-846:8082	<	0.103	ug/L	0.034	U	U	U_LAB		GELC

Location Name	Start Date	Fld Prep Code	Analyte	Analyte Desc	Anyl Meth Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Buckman Diversion SW	09/29/08	F	1336-36-3	Total PCB	EPA:1668A	<	0.000112	ug/L	0.000053	B	U	CB4d		ALTC
Buckman Diversion SW	09/29/08	UF	1336-36-3	Total PCB	EPA:1668A	<	0.000781	ug/L	0.000053	B	U	CB4d		ALTC
Buckman Diversion SW	09/29/08	UF	1336-36-3	Total PCB	EPA:1668A		0.002790	ug/L	0.000054	B			FB	ALTC

Table 6.0
Rio Grande at Buckman
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Buckman Diversion SW	09/29/08	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U			GELC
Buckman Diversion SW	09/29/08	ALK-CO3+HCO3	EPA:310.1	UF		93.7	mg/L	0.73					GELC
Buckman Diversion SW	09/29/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U			GELC
Buckman Diversion SW	09/29/08	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.002	U	U	0.2	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Ca	SW-846:6010B	F		31.9	mg/L	0.03					GELC
Buckman Diversion SW	09/29/08	Ca	SW-846:6010B	UF		33.7	mg/L	0.03					GELC
Buckman Diversion SW	09/29/08	Cl(-1)	EPA:300.0	UF		3.4	mg/L	0.07			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	09/29/08	ClO4	SW-846:6850	UF		0.06	ug/L	0.05	J	J			GELC
Buckman Diversion SW	09/29/08	DO	Generic Field Measurement	UF		8.0	mg/L						FLD
Buckman Diversion SW	09/29/08	F(-1)	EPA:300.0	UF		0.29	mg/L	0.03			4	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	HARDNESS	SM:A2340B	UF		114	mg/L	0.35					GELC
Buckman Diversion SW	09/29/08	HARDNESS	SM:A2340B	F		104	mg/L	0.35					GELC
Buckman Diversion SW	09/29/08	K	SW-846:6010B	F		2.23	mg/L	0.05					GELC
Buckman Diversion SW	09/29/08	K	SW-846:6010B	UF		3.65	mg/L	0.05					GELC
Buckman Diversion SW	09/29/08	Mg	SW-846:6010B	UF		7.17	mg/L	0.09					GELC
Buckman Diversion SW	09/29/08	Mg	SW-846:6010B	F		5.82	mg/L	0.09					GELC
Buckman Diversion SW	09/29/08	NH3-N	EPA:350.1	UF		0.18	mg/L	0.06		J-			GELC
Buckman Diversion SW	09/29/08	NO3+NO2-N	EPA:353.2	UF	<	0.13	mg/L	0.05	J	U	10	EPA PRIM DW LVL	GELC
Buckman Diversion SW	09/29/08	Na	SW-846:6010B	F		13.6	mg/L	0.05					GELC
Buckman Diversion SW	09/29/08	Na	SW-846:6010B	UF		13.4	mg/L	0.05					GELC
Buckman Diversion SW	09/29/08	PO4-P	EPA:365.4	UF		0.14	mg/L	0.02		J+			GELC
Buckman Diversion SW	09/29/08	SO4(-2)	EPA:300.0	UF		37.7	mg/L	0.10			250	EPA SEC DW LVL	GELC
Buckman Diversion SW	09/29/08	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		284	uS/cm						FLD
Buckman Diversion SW	09/29/08	SPEC_CONDC	EPA:120.1	UF		275	uS/cm	1.0					GELC
Buckman Diversion SW	09/29/08	SSC	EPA:160.2	UF		83.8	mg/L	1.8					GELC
Buckman Diversion SW	09/29/08	TDS	EPA:160.1	UF		193	mg/L	2.4			500	EPA SEC DW LVL	GELC
Buckman Diversion SW	09/29/08	TEMP	GENERIC FIELD TEMP	UF		19.8	deg C						FLD
Buckman Diversion SW	09/29/08	TKN	EPA:351.2	UF		0.063	mg/L	0.03	J	J			GELC
Buckman Diversion SW	09/29/08	TOC	SW-846:9060	UF		4.1	mg/L	0.33					GELC
Buckman Diversion SW	09/29/08	TURB	GENERIC FIELD TURB	UF		120	NTU						FLD
Buckman Diversion SW	09/29/08	pH	GENERIC FIELD PH	UF		8.09	SU				6.5-8.5	EPA SEC DW LVL	FLD
Buckman Diversion SW	09/29/08	pH	EPA:150.1	UF		8.47	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC

Table 7.0
Rio Grande at Buckman
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Sample Type Code	Lab Code
Buckman Diversion SW	09/29/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Al	SW-846:6010B	F	<	200	ug/L	68	UJ	UN	200	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Al	SW-846:6010B	UF		5600	ug/L	68	J+	N	200	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	As	SW-846:6020	F		1.8	ug/L	1.5	J	J	10	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	10	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	B	SW-846:6010B	F		11.5	ug/L	10	J	J			CS	GELC
Buckman Diversion SW	09/29/08	B	SW-846:6010B	UF		14.9	ug/L	10	J	J			CS	GELC
Buckman Diversion SW	09/29/08	Ba	SW-846:6010B	F		54.6	ug/L	1			2000	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Ba	SW-846:6010B	UF		92.9	ug/L	1			2000	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			CS	GELC
Buckman Diversion SW	09/29/08	Co	SW-846:6010B	UF		1	ug/L	1	J	J			CS	GELC
Buckman Diversion SW	09/29/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Cr	SW-846:6020	UF	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Cu	SW-846:6010B	UF		3.2	ug/L	3	J	J	1300	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Fe	SW-846:6010B	UF		3890	ug/L	25			300	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Mn	SW-846:6010B	F		2.1	ug/L	2	J	J	50	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Mn	SW-846:6010B	UF		98.6	ug/L	2			50	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Mo	SW-846:6020	F		4.1	ug/L	0.1					CS	GELC
Buckman Diversion SW	09/29/08	Mo	SW-846:6020	UF		3.4	ug/L	0.1					CS	GELC
Buckman Diversion SW	09/29/08	Ni	SW-846:6020	F		1.1	ug/L	0.5	J	J			CS	GELC
Buckman Diversion SW	09/29/08	Ni	SW-846:6020	UF		1.7	ug/L	0.5	J	J			CS	GELC
Buckman Diversion SW	09/29/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Pb	SW-846:6020	UF		1.3	ug/L	0.5	J	J	15	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	CS	GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Sample Type Code**	**Lab Code**
Buckman Diversion SW	09/29/08	SiO2	SW-846:6010B	UF		45	mg/L	0.03					CS	GELC
Buckman Diversion SW	09/29/08	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U			CS	GELC
Buckman Diversion SW	09/29/08	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			CS	GELC
Buckman Diversion SW	09/29/08	Sr	SW-846:6010B	F		255	ug/L	1					CS	GELC
Buckman Diversion SW	09/29/08	Sr	SW-846:6010B	UF		269	ug/L	1					CS	GELC
Buckman Diversion SW	09/29/08	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	2	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	2	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	U	SW-846:6020	F		1.6	ug/L	0.05			30	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	U	SW-846:6020	UF		1.5	ug/L	0.05			30	EPA PRIM DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	V	SW-846:6010B	F		3.4	ug/L	1	J	J			CS	GELC
Buckman Diversion SW	09/29/08	V	SW-846:6010B	UF		13.8	ug/L	1					CS	GELC
Buckman Diversion SW	09/29/08	Zn	SW-846:6010B	F	<	10	ug/L	2	U	U	5000	EPA SEC DW LVL	CS	GELC
Buckman Diversion SW	09/29/08	Zn	SW-846:6010B	UF		13.1	ug/L	2			5000	EPA SEC DW LVL	CS	GELC

Laboratory Report for
Los Alamos National Laboratory

Request # 08-2039

(Samples: CAWR-08)

October 16, 2008

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

October 16, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 08-2039; CAWR-08 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 08-2039; CAWR-08 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, both received in water filled 1-galon jugs, were initial heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1] (θ, ρ_d, ϕ)	Saturated Hydraulic Conductivity[2]		Moisture Characteristics[3]					Unsaturated Hydraulic Conductivity	Particle Size[4]			Effective Porosity	Particle Density	Air Permeability	1/3, 15 Bar Points and Water Holding Capacity	Atterberg Limits	Proctor Compaction
		CH	FH	HC	PP	TH	WP	RH		DS	WS	H						
CAWR-08 15564											X							
CAWR-08 15634											X							

[1] θ = Initial moisture content, ρ_d = Dry bulk density, ϕ = Calculated porosity
[2] CH = Constant head, FH = falling head
[3] HC = Hanging column, PP = Pressure plate, TH = Thermocouple psychrometer, WP = Water activity meter, RH = Relative humidity box
[4] DS = Dry sieve, WS = Wet sieve, H = Hydrometer

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08 15564	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 15634	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-08 15564	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-08 15634	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0180.00
Sample Number: CAWR-08 15564
Ring Number: NA
Depth: NA
Test Date: 15-Oct-08

Initial Dry Weight of Sample (g): 0.39
Weight Passing #10 (g): 0.39
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.39
Calculated Weight of Sieve Sample (g): 0.39
Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.39	100.00
	2"	50	0.00	0.00	0.39	100.00
	1.5"	38.1	0.00	0.00	0.39	100.00
	1"	25	0.00	0.00	0.39	100.00
	3/4"	19.0	0.00	0.00	0.39	100.00
	3/8"	9.5	0.00	0.00	0.39	100.00
	4	4.75	0.00	0.00	0.39	100.00
	10	2.00	0.00	0.00	0.39	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.39	100.00
	40	0.425	0.00	0.00	0.39	100.00
	60	0.250	0.00	0.00	0.39	99.74
	140	0.106	0.04	0.04	0.35	90.51
	200	0.075	0.02	0.06	0.33	85.13
	dry pan		0.33	0.39	0.00	
	wet pan			0.00	0.00	

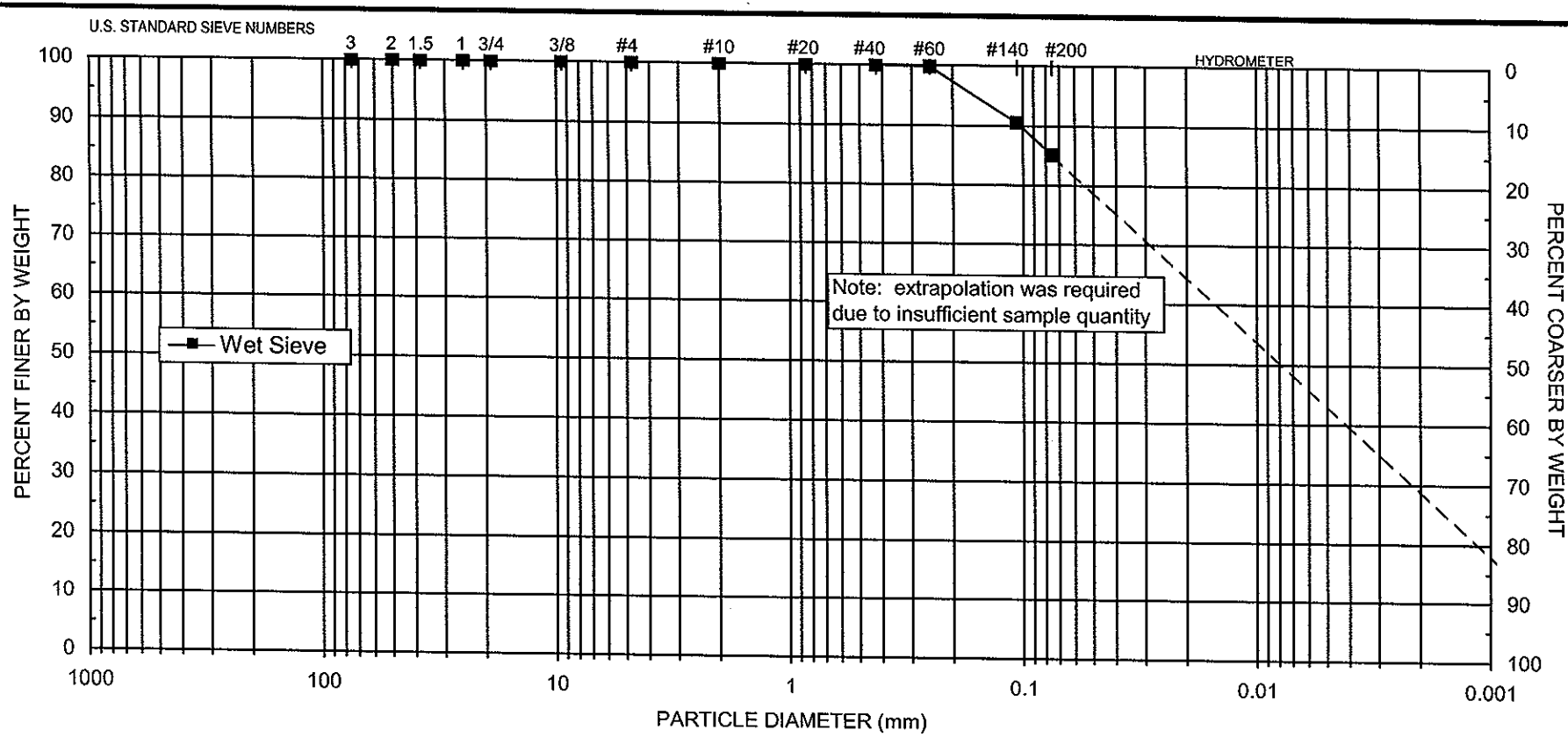
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 15564	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0180.00
Sample Number: CAWR-08 15634
Ring Number: NA
Depth: NA
Test Date: 15-Oct-08

Initial Dry Weight of Sample (g): 0.61
Weight Passing #10 (g): 0.61
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.61
Calculated Weight of Sieve Sample (g): 0.61

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.61	100.00
	2"	50	0.00	0.00	0.61	100.00
	1.5"	38.1	0.00	0.00	0.61	100.00
	1"	25	0.00	0.00	0.61	100.00
	3/4"	19.0	0.00	0.00	0.61	100.00
	3/8"	9.5	0.00	0.00	0.61	100.00
	4	4.75	0.00	0.00	0.61	100.00
	10	2.00	0.00	0.00	0.61	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.61	100.00
	40	0.425	0.00	0.00	0.61	100.00
	60	0.250	0.01	0.01	0.60	98.85
	140	0.106	0.03	0.03	0.58	94.43
	200	0.075	0.05	0.08	0.53	87.05
	dry pan		0.53	0.61	0.00	
	wet pan			0.00	0.00	

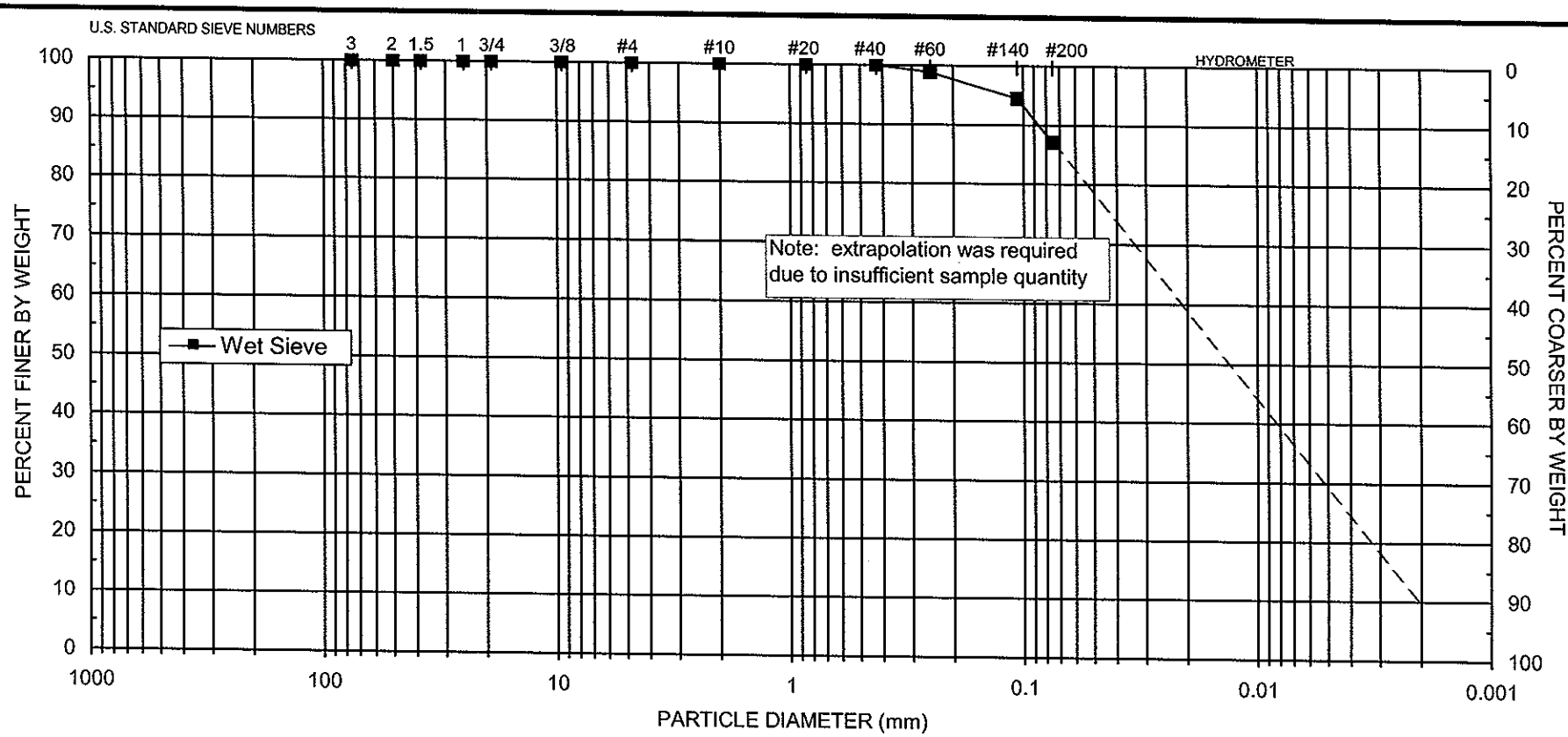
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-08 15634	NA	NA - See note on previous page	NA

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis:	ASTM D422

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	Am-241	HASL-300:AM-241	UF	<	-0.0030	pCi/L	0.009	0.041	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Am-241	HASL-300:AM-241	F	<	0.0006	pCi/L	0.007	0.027	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Cs-137	EPA:901.1	F	<	1.64	pCi/L	2.3	4.1	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Cs-137	EPA:901.1	UF	<	0.425	pCi/L	1.3	4.3	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Co-60	EPA:901.1	UF	<	0.293	pCi/L	1.6	5.2	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Co-60	EPA:901.1	F	<	-0.361	pCi/L	1.1	3.6	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSA	EPA:900	F		4.89	pCi/L	1.4	2.2				15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSA	EPA:900	UF		4.41	pCi/L	1.3	2.1				15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSB	EPA:900	UF		2.92	pCi/L	0.84	2.4				50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSB	EPA:900	F	<	1.95	pCi/L	0.8	2.5	U	U	R5	50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSG	EPA:901.1	F	<	13	pCi/L	15	34	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	GROSSG	EPA:901.1	UF	<	1.09	pCi/L	2.5	3.7	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Np-237	EPA:901.1	UF	<	-3.1	pCi/L	10	31	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Np-237	EPA:901.1	F	<	-14.7	pCi/L	9	28	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Pu-238	HASL-300:ISOPU	F	<	0.0039	pCi/L	0.005	0.024	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Pu-238	HASL-300:ISOPU	UF	<	-0.0033	pCi/L	0.004	0.021	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Pu-239/240	HASL-300:ISOPU	UF	<	0.0033	pCi/L	0.005	0.026	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Pu-239/240	HASL-300:ISOPU	F	<	-0.0098	pCi/L	0.005	0.031	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	K-40	EPA:901.1	UF	<	-2.11	pCi/L	19	65	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	K-40	EPA:901.1	F	<	23.1	pCi/L	18	64	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Ra-226	EPA:903.1	UF	<	0.356	pCi/L	0.12	0.34		U	R11	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ra-226	EPA:903.1	F	<	0.277	pCi/L	0.11	0.32	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ra-228	EPA:904	F	<	0.194	pCi/L	0.23	0.82	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ra-228	EPA:904	UF	<	0.367	pCi/L	0.21	0.66	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Na-22	EPA:901.1	UF	<	-0.869	pCi/L	1.20	3.6	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Na-22	EPA:901.1	F	<	1.63	pCi/L	1.00	3.9	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Sr-90	EPA:905.0	UF	<	-0.0189	pCi/L	0.09	0.3	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Sr-90	EPA:905.0	F	<	-0.053	pCi/L	0.10	0.34	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Th-228	HASL-300:ISOTH	F	<	0.0632	pCi/L	0.02	0.12	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Th-228	HASL-300:ISOTH	UF	<	0.0816	pCi/L	0.02	0.13	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Th-230	HASL-300:ISOTH	F	<	0.0391	pCi/L	0.01	0.12	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Th-230	HASL-300:ISOTH	UF	<	0.0151	pCi/L	0.01	0.12	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Th-232	HASL-300:ISOTH	F	<	0.0045	pCi/L	0.01	0.047	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	Th-232	HASL-300:ISOTH	UF	<	0.015	pCi/L	0.01	0.049	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	H-3	Generic:Low_Level_Tritium	UF		14.62	pCi/L	0.48	0.287				20,000	EPA PRIM DW LVL	UMTL
Rio Grande at Otowi Bridge	12/01/08	U-234	HASL-300:ISOU	F		1.91	pCi/L	0.20	0.25						GELC
Rio Grande at Otowi Bridge	12/01/08	U-234	HASL-300:ISOU	UF		1.94	pCi/L	0.19	0.22						GELC
Rio Grande at Otowi Bridge	12/01/08	U-235/236	HASL-300:ISOU	F	<	0.0275	pCi/L	0.04	0.13	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	U-235/236	HASL-300:ISOU	UF	<	0.0646	pCi/L	0.03	0.12	U	U	R5			GELC
Rio Grande at Otowi Bridge	12/01/08	U-238	HASL-300:ISOU	F		1.06	pCi/L	0.13	0.16						GELC
Rio Grande at Otowi Bridge	12/1/08	U-238	HASL-300:ISOU	UF		1.44	pCi/L	0.15	0.14						GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	12/01/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	12/01/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	12/01/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	12/01/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	12/01/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	107-12-0	Propionitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	12/01/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	Xylene(1,3 and 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V7b	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	100-41-4	Ethylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V7c	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V7b	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	98-82-8	Isopropylbenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	107-12-0	Propionitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V7b	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	12/01/08	Xylene(1,3 and 1,4)	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	62-53-3	Aniline	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	120-12-7	Anthracene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	92-87-5	Benzidine	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.4	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7a	GELC
Rio Grande at Otowi Bridge	12/01/08	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	218-01-9	Chrysene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	1-Dec-08	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.4	ug/L	U	U	U_LAB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	1-Dec-08	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	86-73-7	Fluorene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	78-59-1	Isophorone	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.2	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	12/01/08	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	108-95-2	Phenol	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	129-00-0	Pyrene	SW-846:8270C	UF	<	1.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	110-86-1	Pyridine	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.2	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	309-00-2	Aldrin	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	72-20-8	Endrin	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.200	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	12/01/08	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.500	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	12/01/08	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.108	ug/L	0.036	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	1336-36-3	Total PCB	EPA:1668A	UF	<	0.000052	ug/L	0.000052	U	U	U_LAB		ALTC
Rio Grande at Otowi Bridge	12/01/08	1336-36-3	Total PCB	EPA:1668A	UF		0.000507	ug/L	0.000057				PEB	ALTC

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	ALK-CO3	EPA:310.1	UF		2.12	mg/L	0.73					GELC
Rio Grande at Otowi Bridge	12/01/08	ALK-CO3+HCO3	EPA:310.1	UF		125	mg/L	0.73					GELC
Rio Grande at Otowi Bridge	12/01/08	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.067	U	U			GELC
Rio Grande at Otowi Bridge	12/01/08	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.002	U	UJ	0.2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ca	SW-846:6010B	F		38.3	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	12/01/08	Ca	SW-846:6010B	UF		38.6	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	12/01/08	Cl(-1)	EPA:300.0	UF		6.97	mg/L	0.066			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	ClO4	SW-846:6850	UF		0.066	ug/L	0.05	J	J			GELC
Rio Grande at Otowi Bridge	12/01/08	DO	Generic Field Measurement	UF		13.9	mg/L						FLD
Rio Grande at Otowi Bridge	12/01/08	F(-1)	EPA:300.0	UF		0.509	mg/L	0.033			4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	HARDNESS	SM:A2340B	F		125	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	12/01/08	HARDNESS	SM:A2340B	UF		127	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	12/01/08	K	SW-846:6010B	F		2.7	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	12/01/08	K	SW-846:6010B	UF		2.8	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	12/01/08	Mg	SW-846:6010B	UF		7.4	mg/L	0.085					GELC
Rio Grande at Otowi Bridge	12/01/08	Mg	SW-846:6010B	F		7.26	mg/L	0.085					GELC
Rio Grande at Otowi Bridge	12/01/08	NH3-N	EPA:350.1	UF	<	0.05	mg/L	0.03	U	UJ			GELC
Rio Grande at Otowi Bridge	12/01/08	NO3+NO2-N	EPA:353.2	UF		0.15	mg/L	0.05	J	J	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Na	SW-846:6010B	F		21.5	mg/L	0.045					GELC
Rio Grande at Otowi Bridge	12/01/08	Na	SW-846:6010B	UF		21	mg/L	0.045					GELC
Rio Grande at Otowi Bridge	12/01/08	ORP	Generic Field Measurement	UF		508	mV						FLD
Rio Grande at Otowi Bridge	12/01/08	PO4-P	EPA:365.4	UF		0.118	mg/L	0.024					GELC
Rio Grande at Otowi Bridge	12/01/08	SO4(-2)	EPA:300.0	UF		37.2	mg/L	0.1			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		333	uS/cm						FLD
Rio Grande at Otowi Bridge	12/01/08	SPEC_CONDC	EPA:120.1	UF		344	uS/cm	1					GELC
Rio Grande at Otowi Bridge	12/01/08	SSC	EPA:160.2	UF		17	mg/L	1.1					GELC
Rio Grande at Otowi Bridge	12/01/08	TDS	EPA:160.1	UF		219	mg/L	2.4			500	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	TEMP	GENERIC FIELD TEMP	UF		6.2	deg C						FLD
Rio Grande at Otowi Bridge	12/01/08	TKN	EPA:351.2	UF	<	0.143	mg/L	0.029		U			GELC
Rio Grande at Otowi Bridge	12/01/08	TOC	SW-846:9060	UF		3.19	mg/L	0.33					GELC
Rio Grande at Otowi Bridge	1-Dec-08	TURB	GENERIC FIELD TURB	UF		15.5	NTU						FLD
Rio Grande at Otowi Bridge	1-Dec-08	pH	EPA:150.1	UF		8.47	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	1-Dec-08	pH	GENERIC FIELD PH	UF		7.02	SU				6.5-8.5	EPA SEC DW LVL	FLD

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	12/01/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Al	SW-846:6010B	UF		765	ug/L	68			200	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	200	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	As	SW-846:6020	UF		2.1	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	B	SW-846:6010B	F		42.8	ug/L	10	J	J			GELC
Rio Grande at Otowi Bridge	12/01/08	B	SW-846:6010B	UF		44.3	ug/L	10	J	J			GELC
Rio Grande at Otowi Bridge	12/01/08	Ba	SW-846:6010B	F		56.3	ug/L	1			2000	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Ba	SW-846:6010B	UF		63.1	ug/L	1			2000	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U			GELC
Rio Grande at Otowi Bridge	12/01/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			GELC
Rio Grande at Otowi Bridge	12/01/08	Cr	SW-846:6020	UF	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Fe	SW-846:6010B	UF		563	ug/L	25			300	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Fe	SW-846:6010B	F		44.8	ug/L	25	J	J	300	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Hg	EPA:245.2	UF		0.1	ug/L	0.067	J	J	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Mn	SW-846:6010B	F		20.2	ug/L	2			50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Mn	SW-846:6010B	UF		45.8	ug/L	2			50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Mo	SW-846:6020	UF		6.2	ug/L	0.1					GELC
Rio Grande at Otowi Bridge	12/01/08	Mo	SW-846:6020	F		6.2	ug/L	0.1					GELC
Rio Grande at Otowi Bridge	12/01/08	Ni	SW-846:6020	UF		2.3	ug/L	0.5					GELC
Rio Grande at Otowi Bridge	12/01/08	Ni	SW-846:6020	F		1.7	ug/L	0.5	J	J			GELC
Rio Grande at Otowi Bridge	12/01/08	Pb	SW-846:6020	F	<	2.0	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Pb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	SiO2	SW-846:6010B	UF		24.4	mg/L	0.032					GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	12/01/08	Sn	SW-846:6010B	F	<	10	ug/L	2.50	U	U			GELC
Rio Grande at Otowi Bridge	12/01/08	Sn	SW-846:6010B	UF	<	10	ug/L	2.5	U	U			GELC
Rio Grande at Otowi Bridge	12/01/08	Sr	SW-846:6010B	UF		293	ug/L	1					GELC
Rio Grande at Otowi Bridge	12/01/08	Sr	SW-846:6010B	F		292	ug/L	1					GELC
Rio Grande at Otowi Bridge	12/01/08	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	U	SW-846:6020	F		3.5	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	U	SW-846:6020	UF		3.5	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	V	SW-846:6010B	UF		5.2	ug/L	1					GELC
Rio Grande at Otowi Bridge	12/01/08	V	SW-846:6010B	F		4.2	ug/L	1	J	J			GELC
Rio Grande at Otowi Bridge	12/01/08	Zn	SW-846:6010B	F		3.1	ug/L	2	J	J	5000	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	12/01/08	Zn	SW-846:6010B	UF		5.3	ug/L	2	J	J	5000	EPA SEC DW LVL	GELC

Laboratory Report for

Los Alamos National Laboratory

Request # 09-410

(Samples: CAWR-09)

December 12, 2008

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

December 12, 2008

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 09-410; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-410; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, both received in water filled 1-galon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
6020 Academy Rd., NE, Suite 100 505-822-9400
Albuquerque, NM 87109-3315 FAX 505-822-8877

Summaries

Daniel B. Stephens & Associates, Inc.

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]		Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-1415															X						
CAWR-09-1413															X						

[1] VM = Volume Measurement Method, VD = Volume Displacement Method
[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall
[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity
[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer
[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)
[6] WHC = Water Holding Capacity

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-1415	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-1413	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

Laboratory Data and Graphical Plots

Particle Size Analysis

Daniel B. Stephens & Associates, Inc.

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-1415	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-1413	NA	NA	NA	NA	NA	WS	NA	NA

d_{60} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: extrapolation was required due to insufficient sample quantity

BUCKMAN DIVERSION SW

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0218.00
Sample Number: CAWR-09-1415
Request Number: 09-410
Depth: NA
Test Date: 9-Dec-08

Initial Dry Weight of Sample (g): 0.50
Weight Passing #10 (g): 0.50
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.50
Calculated Weight of Sieve Sample (g): 0.50

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.50	100.00
	2"	50	0.00	0.00	0.50	100.00
	1.5"	38.1	0.00	0.00	0.50	100.00
	1"	25	0.00	0.00	0.50	100.00
	3/4"	19.0	0.00	0.00	0.50	100.00
	3/8"	9.5	0.00	0.00	0.50	100.00
	4	4.75	0.00	0.00	0.50	100.00
	10	2.00	0.00	0.00	0.50	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.03	0.03	0.47	94.00
	40	0.425	0.02	0.05	0.45	90.00
	60	0.250	0.02	0.07	0.43	86.00
	140	0.106	0.00	0.07	0.43	86.00
	200	0.075	0.00	0.07	0.43	86.00
	dry pan		0.00	0.07	0.43	
	wet pan			0.43	0.00	

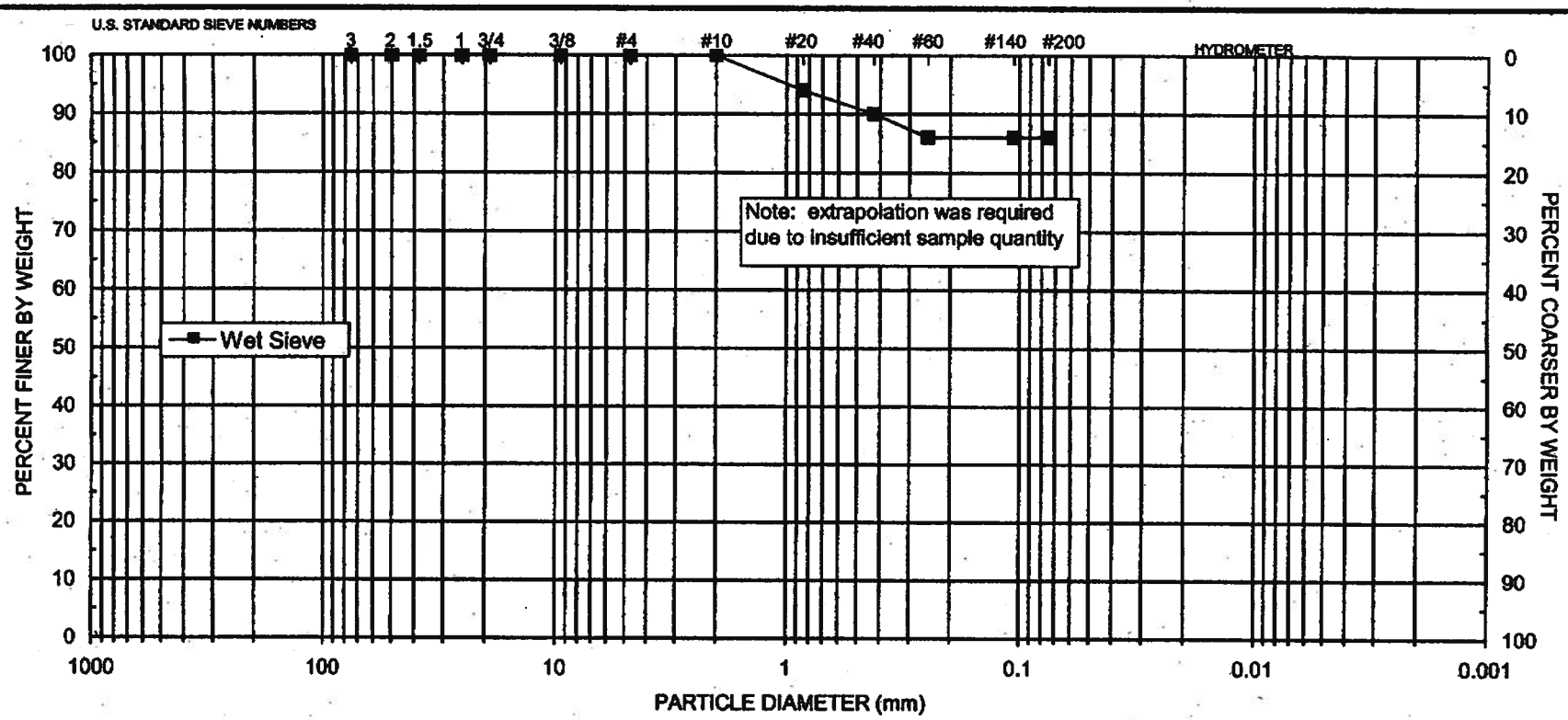
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA- Sample size insufficient for hydrometer analysis.
USDA Soil Classification: NA- Sample size insufficient for hydrometer analysis.

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-1415	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

RIO GRANDE AT OTOWI BRIDGE

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB08.0218.00
Sample Number: CAWR-09-1413
Request Number: 09-410
Depth: NA
Test Date: 9-Dec-08

Initial Dry Weight of Sample (g): 0.48
Weight Passing #10 (g): 0.48
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.48
Calculated Weight of Sieve Sample (g): 0.48

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.48	100.00
	2"	50	0.00	0.00	0.48	100.00
	1.5"	38.1	0.00	0.00	0.48	100.00
	1"	25	0.00	0.00	0.48	100.00
	3/4"	19.0	0.00	0.00	0.48	100.00
	3/8"	9.5	0.00	0.00	0.48	100.00
	4	4.75	0.00	0.00	0.48	100.00
	10	2.00	0.00	0.00	0.48	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.01	0.01	0.47	97.92
	40	0.425	0.02	0.03	0.45	93.75
	60	0.250	0.01	0.04	0.44	91.67
	140	0.106	0.00	0.04	0.44	91.67
	200	0.075	0.00	0.04	0.44	91.67
	dry pan		0.00	0.04	0.44	
	wet pan			0.44	0.00	

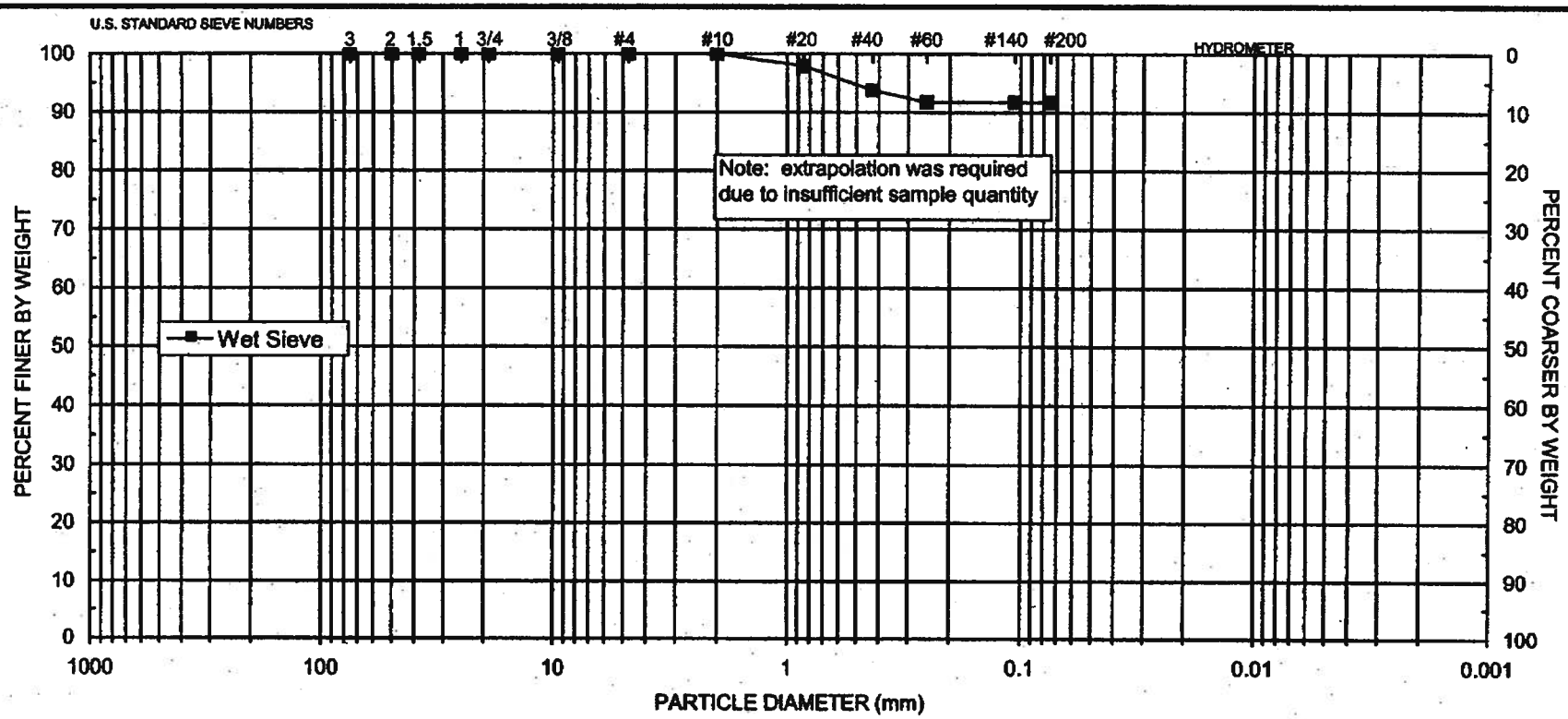
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter—d_{50} (mm): NA
Uniformity Coefficient, Cu—$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc—$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter—$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-1413	NA	NA - See note on previous page	NA

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is =<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is =<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H8I	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is =5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE8I	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and =2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hi
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is =<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is =< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is =<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I8I	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the N
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding ti
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missinc
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8I	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits . MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8I	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8I	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8I	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceedi
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificat
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MI
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record package
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceedi
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RCSTP	R_CST_ZERO_TPU
RCSUN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for us
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12c
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificat
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VRS	VOC_VRS
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Concat Reason Code	Scr Lvl	Scrn Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	Am-241	HASL-300:AM-241	F	<	-0.0002	pCi/L	0.007	0.05	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Am-241	HASL-300:AM-241	UF	<	0.0051	pCi/L	0.003	0.04	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Co-60	EPA:901.1	F	<	1.17	pCi/L	1.3	4.7	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Co-60	EPA:901.1	UF	<	1.31	pCi/L	1.2	4.3	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Cs-137	EPA:901.1	F	<	0.2420	pCi/L	1.2	4.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Cs-137	EPA:901.1	UF	<	-0.0833	pCi/L	1.3	4.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSA	EPA:900	F		2.06	pCi/L	0.7	1.4				15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSA	EPA:900	UF	<	1.49	pCi/L	0.9	2.8	U	U	R5	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSB	EPA:900	F	<	2.06	pCi/L	0.7	2.1	U	U	R5	50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSB	EPA:900	UF		7.08	pCi/L	1.2	2.9				50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSG	EPA:901.1	F	<	13.3	pCi/L	13.0	34.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	GROSSG	EPA:901.1	UF	<	32.0	pCi/L	22.0	42.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	H-3	Low_Level_Tritium	UF		13.57	pCi/L	2.3	3.1				20,000	EPA PRIM DW LVL	ARSL
Rio Grande at Otowi Bridge	02/18/09	K-40	EPA:901.1	F	<	-14.50	pCi/L	20.0	63.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	K-40	EPA:901.1	UF	<	7.47	pCi/L	17.0	60.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	39862.000	Na-22	EPA:901.1	F	<	0.586	pCi/L	1.2	4.2	U	U	R5			GELC
Rio Grande at Otowi Bridge	39862.000	Na-22	EPA:901.1	UF	<	1.200	pCi/L	1.4	5.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Np-237	EPA:901.1	F	<	-7.47	pCi/L	9.7	28.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Np-237	EPA:901.1	UF	<	-20.5	pCi/L	10.0	30.0	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Pu-238	HASL-300:ISOPU	F	<	0.00185	pCi/L	0.003	0.026	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Pu-238	HASL-300:ISOPU	UF	<	0.00442	pCi/L	0.008	0.031	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Pu-239/240	HASL-300:ISOPU	F	<	0.0000	pCi/L	0.003	0.037	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.0066	pCi/L	0.010	0.044	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Ra-226	EPA:903.1	F	<	0.13	pCi/L	0.10	0.35	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Ra-226	EPA:903.1	UF	<	0.17	pCi/L	0.09	0.27	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Ra-228	EPA:904	F	<	0.63	pCi/L	0.26	0.76	U	U	R5	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Ra-228	EPA:904	UF		0.61	pCi/L	0.19	0.49				5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Sr-90	EPA:905.0	F	<	0.0021	pCi/L	0.13	0.45	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Sr-90	EPA:905.0	UF	<	-0.0551	pCi/L	0.13	0.46	U	U	R5	8	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Th-228	HASL-300:ISOTH	F	<	-0.0002	pCi/L	0.01	0.14	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Th-228	HASL-300:ISOTH	UF	<	0.0185	pCi/L	0.02	0.12	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Th-230	HASL-300:ISOTH	F	<	0.0082	pCi/L	0.01	0.07	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Th-230	HASL-300:ISOTH	UF	<	0.0245	pCi/L	0.01	0.06	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Th-232	HASL-300:ISOTH	F	<	0.0022	pCi/L	0.004	0.040	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	Th-232	HASL-300:ISOTH	UF	<	0.0319	pCi/L	0.009	0.034	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	U-234	HASL-300:ISOU	F		1.09	pCi/L	0.10	0.11						GELC
Rio Grande at Otowi Bridge	02/18/09	U-234	HASL-300:ISOU	UF		1.23	pCi/L	0.12	0.16		J+	R3b			GELC
Rio Grande at Otowi Bridge	02/18/09	U-235/236	HASL-300:ISOU	F	<	0.0424	pCi/L	0.02	0.06	U	U	R5			GELC
Rio Grande at Otowi Bridge	02/18/09	U-235/236	HASL-300:ISOU	UF	<	0.0297	pCi/L	0.02	0.09	U	U	R5			GELC
Rio Grande at Otowi Bridge	2/18/09	U-238	HASL-300:ISOU	F		0.729	pCi/L	0.07	0.07						GELC
Rio Grande at Otowi Bridge	2/18/09	U-238	HASL-300:ISOU	UF		0.744	pCi/L	0.08	0.10		J+	R3b			GELC

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	100-41-4	EthylBenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	10061-01-5	Dichloropropene(cis-1,3-)	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	10061-02-6	Dichloropropene(trans-1,3-)	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	103-65-1	PropylBenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	104-51-8	ButylBenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	105-03-4	Chloroethane[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	R	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	107-12-0	Propionitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	110-82-7	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	UJ	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	135-98-8	ButylBenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	156-59-2	Dichloroethene[(cis-1,2-)]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	156-60-5	Dichloroethene[(trans-1,2-)]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	UJ	V-N		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V-N		GELC
Rio Grande at Otowi Bridge	02/18/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	98-06-6	ButylBenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	98-82-8	IsopropylBenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	02/18/09	Xylene(1,3 and 1,4)	Xylene(1,3-)+Xylene(1,4-)	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	100-41-4	EthylBenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	100-42-5	Styrene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	10061-01-5	Dichloropropene(cis-1,3-)	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	10061-02-6	Dichloropropene(trans-1,3-)	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	103-65-1	PropylBenzene[1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	104-51-8	ButylBenzene[n-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	107-02-8	Acrolein	SW-846:8260B	UF	=	5	ug/L	U	R	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	107-12-0	Propionitrile	SW-846:8260B	UF	=	5	ug/L	U	R	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-86-1	Bromobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-88-3	Toluene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	=	1	ug/L	U	UJ	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	135-98-8	ButylBenzene[sec-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	156-59-2	Dichloroethene[(cis-1,2-)]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	156-60-5	Dichloroethene[(trans-1,2-)]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	67-64-1	Acetone	SW-846:8260B	UF	=	10	ug/L	U	UJ	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	67-66-3	Chloroform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	=	50	ug/L	U	UJ	V-N	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	71-43-2	Benzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	74-83-9	Bromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	74-87-3	Chloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	74-88-4	Iodomethane	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	74-95-3	Dibromomethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-00-3	Chloroethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-05-8	Acetonitrile	SW-846:8260B	UF	=	25	ug/L	U	R	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	=	10	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-25-2	Bromoform	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	=	1	ug/L	U	UJ	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	=	50	ug/L	U	R	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	=	5	ug/L	U	UJ	V-N	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	79-01-6	Trichloroethene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	91-20-3	Naphthalene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	=	5	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	98-06-6	ButylBenzene[tert-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	98-82-8	IsopropylBenzene	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	=	1	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	02/18/09	Xylene(1,3 and 1,4)	Xylene(1,3-)+Xylene(1,4-)	SW-846:8260B	UF	=	2	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	108-95-2	Phenol	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	110-86-1	Pyridine	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.06	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.6	ug/L	U	R	SV7b	GELC
Rio Grande at Otowi Bridge	02/18/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.06	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	21.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.06	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	18-Feb-09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7a	GELC
Rio Grande at Otowi Bridge	18-Feb-09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	18-Feb-09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Rio Grande at Otowi Bridge	02/18/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	62-53-3	Aniline	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	21.3	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7a	GELC
Rio Grande at Otowi Bridge	02/18/09	78-59-1	Isophorone	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7a	GELC
Rio Grande at Otowi Bridge	02/18/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.06	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	92-87-5	Benzidine	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	02/18/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	18-Feb-09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.6	ug/L	U	UJ	SV7c	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.040	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.020	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.200	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	02/18/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.500	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	2/18/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	2/18/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.104	ug/L	0.04	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	2/18/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.00005310	ug/L	0.000000	U	U	U_LAB		ALTC
Rio Grande at Otowi Bridge	2/18/09	1336-36-3	Total PCB	EPA:1668A	F		0.00001090	ug/L	0.000000					ALTC
Rio Grande at Otowi Bridge	2/18/09	1336-36-3	Total PCB	EPA:1668A	UF		NA[1]						PEB	ALTC

Notes:
[1]NA means that no results are available for this sample because the sample container was broken at the analytical laboratory.

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	2/18/09	ALK-CO3	EPA:310.1	UF	<	1.0	mg/L	0.73	U	U			GELC
Rio Grande at Otowi Bridge	2/18/09	ALK-CO3+HCO3	EPA:310.1	UF		95.1	mg/L	0.73					GELC
Rio Grande at Otowi Bridge	2/18/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U			GELC
Rio Grande at Otowi Bridge	2/18/09	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.00	U	U	0.2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	Ca	SW-846:6010B	F		32.9	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	2/18/09	Ca	SW-846:6010B	UF		33.7	mg/L	0.03					GELC
Rio Grande at Otowi Bridge	2/18/09	Cl(-1)	EPA:300.0	UF		5.24	mg/L	0.07			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	ClO4	SW-846:6850	UF		0.08	ug/L	0.05	J	J			GELC
Rio Grande at Otowi Bridge	2/18/09	DO	Generic Field Measurement	UF		14.23	mg/L						FLD
Rio Grande at Otowi Bridge	2/18/09	F(-1)	EPA:300.0	UF		0.40	mg/L	0.03			4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	HARDNESS	SM:A2340B	F		109	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	2/18/09	HARDNESS	SM:A2340B	UF		112	mg/L	0.35					GELC
Rio Grande at Otowi Bridge	2/18/09	K	SW-846:6010B	F		2.38	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	2/18/09	K	SW-846:6010B	UF		2.61	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	2/18/09	Mg	SW-846:6010B	F		6.49	mg/L	0.09					GELC
Rio Grande at Otowi Bridge	2/18/09	Mg	SW-846:6010B	UF		6.80	mg/L	0.09					GELC
Rio Grande at Otowi Bridge	2/18/09	NH3-N	EPA:350.1	UF		0.054	mg/L	0.03		J-			GELC
Rio Grande at Otowi Bridge	2/18/09	NO3+NO2-N	EPA:353.2	UF		0.175	mg/L	0.05	J	J	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	Na	SW-846:6010B	F		17.2	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	2/18/09	Na	SW-846:6010B	UF		17.0	mg/L	0.05					GELC
Rio Grande at Otowi Bridge	2/18/09	ORP	Generic Field Measurement	UF		359	mV						FLD
Rio Grande at Otowi Bridge	2/18/09	PO4-P	EPA:365.4	UF	<	0.064	mg/L	0.02		U			GELC
Rio Grande at Otowi Bridge	2/18/09	SO4(-2)	EPA:300.0	UF		33.7	mg/L	0.1			250	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	SPEC_CONDC	EPA:120.1	UF		276	uS/cm	1.0					GELC
Rio Grande at Otowi Bridge	2/18/09	SPEC_CONDC	GENERIC FIELD CONDUCTIVITY	UF		323	uS/cm						FLD
Rio Grande at Otowi Bridge	2/18/09	SSC	EPA:160.2	UF		52.4	mg/L	2.3					GELC
Rio Grande at Otowi Bridge	2/18/09	TDS	EPA:160.1	UF		181	mg/L	2.4			500	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	TEMP	GENERIC FIELD TEMP	UF		4.01	deg C						FLD
Rio Grande at Otowi Bridge	2/18/09	TKN	EPA:351.2	UF	<	0.24	mg/L	0.03		U			GELC
Rio Grande at Otowi Bridge	2/18/09	TOC	SW-846:9060	UF		2.15	mg/L	0.33					GELC
Rio Grande at Otowi Bridge	2/18/09	TURB	GENERIC FIELD TURB	UF		15.9	NTU				6.5-8.5	EPA SEC DW LVL	FLD
Rio Grande at Otowi Bridge	2/18/09	pH	EPA:150.1	UF		8.16	SU	0.01	H	J-	6.5-8.5	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	2/18/09	pH	GENERIC FIELD PH	UF		7.89	SU						FLD

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Scr Lvl	Scr Lvl Type Code	Lab Code
Rio Grande at Otowi Bridge	02/18/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	100	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	200	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Al	SW-846:6010B	UF		1290	ug/L	68			200	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	As	SW-846:6020	F		2.1	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	As	SW-846:6020	UF		1.9	ug/L	1.5	J	J	10	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	B	SW-846:6010B	F	<	35.1	ug/L	10	J	U			GELC
Rio Grande at Otowi Bridge	02/18/09	B	SW-846:6010B	UF	<	39.9	ug/L	10	J	U			GELC
Rio Grande at Otowi Bridge	02/18/09	Ba	SW-846:6010B	F		44.4	ug/L	1			2000	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Ba	SW-846:6010B	UF		59.0	ug/L	1			2000	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	4	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	5	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U			GELC
Rio Grande at Otowi Bridge	02/18/09	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U			GELC
Rio Grande at Otowi Bridge	02/18/09	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	100	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Cr	SW-846:6020	UF		2.6	ug/L	1.5	J	J	100	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	1300	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U	300	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Fe	SW-846:6010B	UF		1000	ug/L	25			300	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Mn	SW-846:6010B	F		11	ug/L	2			50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Mn	SW-846:6010B	UF		54.2	ug/L	2			50	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Mo	SW-846:6020	F		4.4	ug/L	0.1					GELC
Rio Grande at Otowi Bridge	02/18/09	Mo	SW-846:6020	UF		4.3	ug/L	0.1					GELC
Rio Grande at Otowi Bridge	02/18/09	Ni	SW-846:6020	F		1.1	ug/L	0.5	J	J			GELC
Rio Grande at Otowi Bridge	02/18/09	Ni	SW-846:6020	UF		1.8	ug/L	0.5	J	J			GELC
Rio Grande at Otowi Bridge	02/18/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Pb	SW-846:6020	UF		1.1	ug/L	0.5	J	J	15	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	6	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	50	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	SiO2	SW-846:6010B	UF		31.5	mg/L	0.03					GELC
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Scr Lvl**	**Scr Lvl Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	02/18/09	Sn	SW-846:6010B	F	<	50	ug/L	13.00	U	U			**GELC**
Rio Grande at Otowi Bridge	02/18/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U			**GELC**
Rio Grande at Otowi Bridge	02/18/09	Sr	SW-846:6010B	F		237	ug/L	1					GELC
Rio Grande at Otowi Bridge	02/18/09	Sr	SW-846:6010B	UF		239	ug/L	1					GELC
Rio Grande at Otowi Bridge	02/18/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	2	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	U	SW-846:6020	F		2.7	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	U	SW-846:6020	UF		2.6	ug/L	0.05			30	EPA PRIM DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	V	SW-846:6010B	F	<	4.2	ug/L	1	J	U			GELC
Rio Grande at Otowi Bridge	02/18/09	V	SW-846:6010B	UF		6.0	ug/L	1		J			GELC
Rio Grande at Otowi Bridge	02/18/09	Zn	SW-846:6010B	F	<	2.1	ug/L	2	J	U	5000	EPA SEC DW LVL	GELC
Rio Grande at Otowi Bridge	02/18/09	Zn	SW-846:6010B	UF	<	9.5	ug/L	2	J	U	5000	EPA SEC DW LVL	GELC

Laboratory Report for

Los Alamos National Laboratory

Request # 09-947

(Samples: CAWR-09)

March 24, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

March 24, 2009

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545-0600
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 09-947; CAWR-09 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-947; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, each received in one water filled 1-galon jug, were air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Joleen Hines
Laboratory Supervising Manager
Enclosure

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 505-822-9400

Albuquerque, NM 87109 FAX 505-822-8877

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]		Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-2362															X						
CAWR-09-2366															X						

[1] VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-2362	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-2366	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insuffient sample quantity.

Laboratory Data and Graphical Plots

Initial Properties

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-2362	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-2366	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insuffient sample quantity.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0044.00
Sample Number: CAWR-09-2362
Request Number: 09-947
Depth: NA
Test Date: 3-Mar-09

Initial Dry Weight of Sample (g): 0.73
Weight Passing #10 (g): 0.73
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.76
Calculated Weight of Sieve Sample (g): 0.76

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.73	100.00
	2"	50	0.00	0.00	0.73	100.00
	1.5"	38.1	0.00	0.00	0.73	100.00
	1"	25	0.00	0.00	0.73	100.00
	3/4"	19.0	0.00	0.00	0.73	100.00
	3/8"	9.5	0.00	0.00	0.73	100.00
	4	4.75	0.00	0.00	0.73	100.00
	10	2.00	0.00	0.00	0.73	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.76	100.00
	40	0.425	0.01	0.01	0.75	98.68
	60	0.250	0.02	0.03	0.73	96.05
	140	0.106	0.14	0.17	0.59	77.63
	200	0.075	0.11	0.28	0.48	63.16
	dry pan		0.48	0.76	0.00	
	wet pan			0.00	0.00	

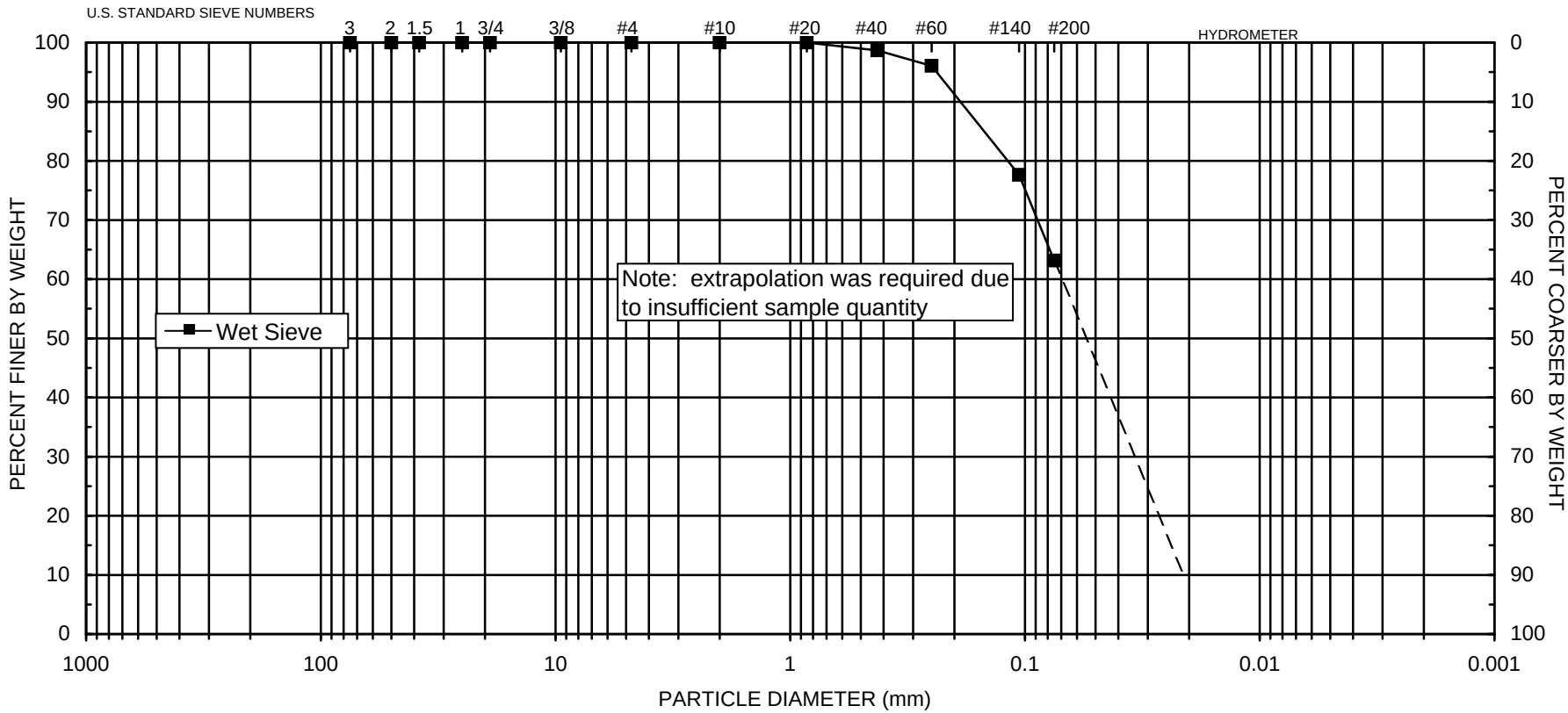
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-2362	**NA**	**NA - See note on previous page**	**NA**

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0044.00
Sample Number: CAWR-09-2366
Request Number: 09-947
Depth: NA
Test Date: 3-Mar-09

Initial Dry Weight of Sample (g): 0.78
Weight Passing #10 (g): 0.78
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.78
Calculated Weight of Sieve Sample (g): 0.78

Shape: Rounded
Hardness: Soft

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.78	100.00
	2"	50	0.00	0.00	0.78	100.00
	1.5"	38.1	0.00	0.00	0.78	100.00
	1"	25	0.00	0.00	0.78	100.00
	3/4"	19.0	0.00	0.00	0.78	100.00
	3/8"	9.5	0.00	0.00	0.78	100.00
	4	4.75	0.00	0.00	0.78	100.00
	10	2.00	0.00	0.00	0.78	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.78	100.00
	40	0.425	0.01	0.01	0.77	98.72
	60	0.250	0.01	0.02	0.76	97.44
	140	0.106	0.14	0.16	0.62	79.49
	200	0.075	0.12	0.28	0.50	64.10
	dry pan		0.49	0.77	0.01	
	wet pan			0.01	0.00	

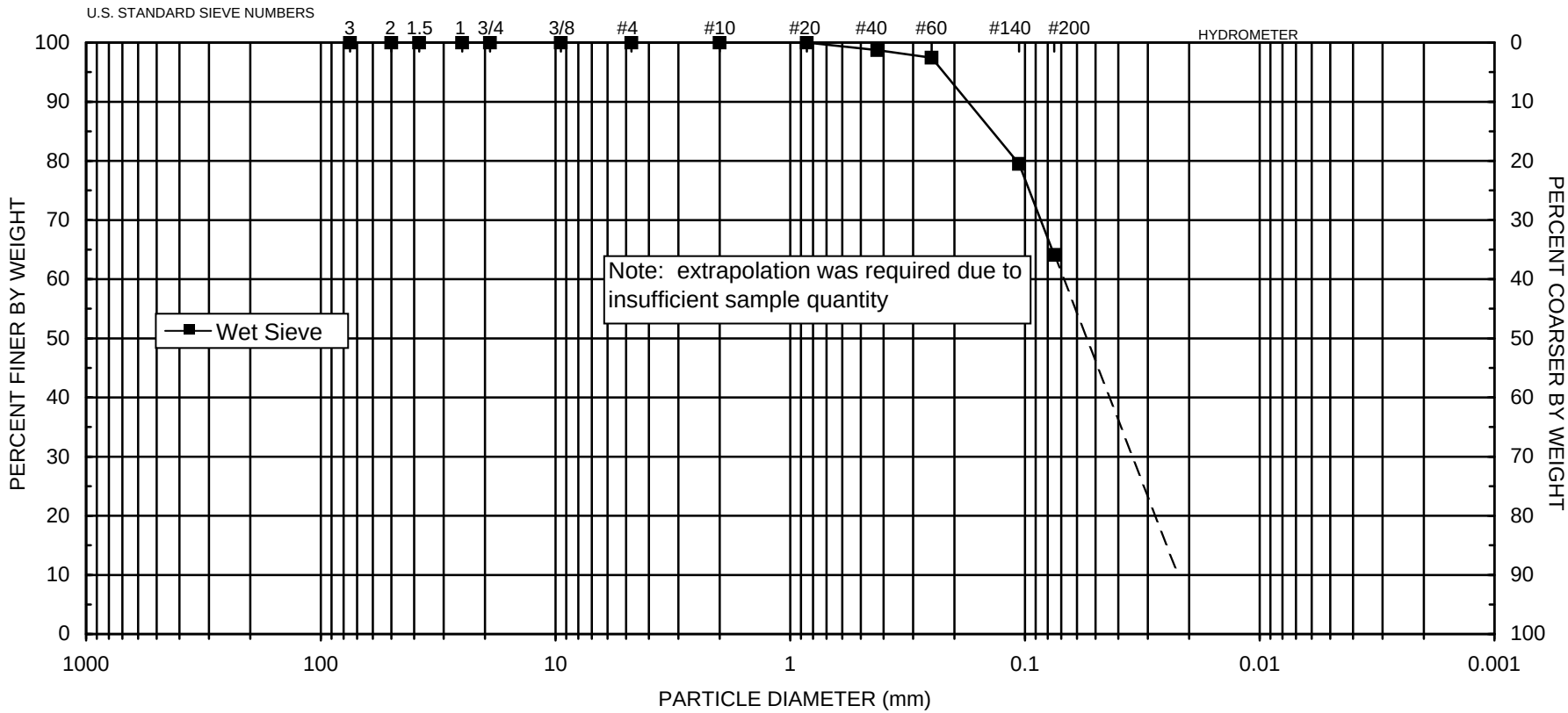
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: C. Krous
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY	
		Coarse	Fine	Coarse	Medium	Fine		
USDA	COBBLES	GRAVEL		SAND			SILT	CLAY
				Very coarse	Coarse	Medium	Fine	Very fine

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-2366	**NA**	**NA - See note on previous page**	**NA**

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C84	The sample result is ≤<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for use
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremer
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analytes.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analytes.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the N
L8	Gross contamination exists from a source other than the standarc
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB8	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the M
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limi
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential the labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60%
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceede
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than 3 times the MD(
RWQ3	Less than the negative MD(
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the porential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for us
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VI#
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60%
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scrn Lvl Type Code
Rio Grande at Otowi Bridge	5/14/09	Am-241	HASL-300:AM-241	F	<	0.025	pCi/L	0.013	0.039	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Am-241	HASL-300:AM-241	UF	<	-0.009	pCi/L	0.004	0.035	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Co-60	EPA:901.1	F	<	-4.25	pCi/L	1.7	3.6	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Co-60	EPA:901.1	UF	<	-0.06	pCi/L	1.2	4	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Cs-137	EPA:901.1	F	<	0.15	pCi/L	1.7	5.3	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Cs-137	EPA:901.1	UF	<	-0.01	pCi/L	1.1	3.8	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	GROSSA	EPA:900	F	<	0.235	pCi/L	0.6	2.1	U	UJ		GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSA	EPA:900	UF	<	1.00	pCi/L	0.7	2.3	U	UJ		GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSB	EPA:900	F	<	1.89	pCi/L	0.86	2.7	U	U		GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSB	EPA:900	UF		5.86	pCi/L	1.1	2.6				GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSG	EPA:901.1	F	<	23.7	pCi/L	12	47	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	GROSSG	EPA:901.1	UF	<	3.6	pCi/L	5.3	8.9	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	H-3	Generic:Low_Level_Tritium	UF		22.6	pCi/L	0.73	0.29				UMTL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	K-40	EPA:901.1	F	<	-15.4	pCi/L	20	63	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	K-40	EPA:901.1	UF	<	6.12	pCi/L	17	53	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Na-22	EPA:901.1	F	<	-0.214	pCi/L	1.6	5.2	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Na-22	EPA:901.1	UF	<	1.68	pCi/L	1.1	4.1	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Np-237	EPA:901.1	F	<	-7.79	pCi/L	14	46	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Np-237	EPA:901.1	UF	<	3.99	pCi/L	9.5	31	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-238	HASL-300:ISOPU	F	<	0.002	pCi/L	0.002	0.036	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-238	HASL-300:ISOPU	UF	<	-0.005	pCi/L	0.012	0.049	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-239/240	HASL-300:ISOPU	F	<	0.000	pCi/L	0.002	0.037	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.007	0.050	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Ra-226	EPA:903.1	F	<	-0.02	pCi/L	0.07	0.30	U	U		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-226	EPA:903.1	UF	<	0.28	pCi/L	0.12	0.35	U	U		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-228	EPA:904	F	<	0.28	pCi/L	0.18	0.58	U	U		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-228	EPA:904	UF	<	0.11	pCi/L	0.16	0.58	U	U		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Sr-90	EPA:905.0	F	<	0.05	pCi/L	0.10	0.33	U	U		GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Sr-90	EPA:905.0	UF	<	-0.12	pCi/L	0.13	0.47	U	U		GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Th-228	HASL-300:ISOTH	F	<	0.02	pCi/L	0.007	0.097	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-228	HASL-300:ISOTH	UF		0.13	pCi/L	0.018	0.098				GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-230	HASL-300:ISOTH	F	<	0.03	pCi/L	0.008	0.067	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-230	HASL-300:ISOTH	UF		0.15	pCi/L	0.018	0.067				GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-232	HASL-300:ISOTH	F	<	0.009	pCi/L	0.004	0.027	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-232	HASL-300:ISOTH	UF		0.092	pCi/L	0.014	0.027				GELC		
Rio Grande at Otowi Bridge	5/14/09	U-234	HASL-300:ISOU	F		0.425	pCi/L	0.050	0.150				GELC		
Rio Grande at Otowi Bridge	5/14/09	U-234	HASL-300:ISOU	UF		0.518	pCi/L	0.056	0.140				GELC		
Rio Grande at Otowi Bridge	5/14/09	U-235/236	HASL-300:ISOU	F	<	0.05	pCi/L	0.016	0.069	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	U-235/236	HASL-300:ISOU	UF	<	0.026	pCi/L	0.012	0.066	U	U		GELC		
Rio Grande at Otowi Bridge	5/14/09	U-238	HASL-300:ISOU	F		0.278	pCi/L	0.038	0.075				GELC		
Rio Grande at Otowi Bridge	5/14/09	U-238	HASL-300:ISOU	UF		0.351	pCi/L	0.043	0.071				GELC		
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Uncertainty (1-sigma)**	**Std Mda**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scrn Lvl Type Code**
Rio Grande at Otowi Bridge	5/14/09	Am-241	HASL-300:AM-241	F	<	-0.011	pCi/L	0.006	0.039	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Am-241	HASL-300:AM-241	UF	<	0.001	pCi/L	0.002	0.034	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Co-60	EPA:901.1	F	<	1.2	pCi/L	1.3	4.6	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Co-60	EPA:901.1	UF	<	-2.52	pCi/L	1.4	3.4	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Cs-137	EPA:901.1	F	<	-0.903	pCi/L	1.5	4.7	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Cs-137	EPA:901.1	UF	<	-1.17	pCi/L	1.5	4.4	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	GROSSA	EPA:900	F	<	0.28	pCi/L	0.61	2.3	U	UJ	FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSA	EPA:900	UF	<	2.1	pCi/L	0.87	2.4	U	UJ	FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSB	EPA:900	F		3.34	pCi/L	0.97	2.8			FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSB	EPA:900	UF		4.58	pCi/L	1.1	3.1			FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	5/14/09	GROSSG	EPA:901.1	F	<	28.2	pCi/L	18	41	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	GROSSG	EPA:901.1	UF	<	12.9	pCi/L	7.1	15	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	H-3	Generic:Low_Level_Tritium	UF		22.2	pCi/L	0.734	0.287			FD	UMTL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	K-40	EPA:901.1	F	<	-14.6	pCi/L	18	64	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	K-40	EPA:901.1	UF	<	-65.1	pCi/L	17	48	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Na-22	EPA:901.1	F	<	3.52	pCi/L	1.5	6	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Na-22	EPA:901.1	UF	<	1.35	pCi/L	1.2	4.4	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Np-237	EPA:901.1	F	<	-10.2	pCi/L	14	45	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Np-237	EPA:901.1	UF	<	14.2	pCi/L	11	37	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-238	HASL-300:ISOPU	F	<	-0.003	pCi/L	0.004	0.045	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-238	HASL-300:ISOPU	UF	<	0.013	pCi/L	0.010	0.047	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-239/240	HASL-300:ISOPU	F	<	-0.005	pCi/L	0.006	0.046	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Pu-239/240	HASL-300:ISOPU	UF	<	-0.003	pCi/L	0.005	0.048	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Ra-226	EPA:903.1	F	<	-0.056	pCi/L	0.03	0.21	U	U	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-226	EPA:903.1	UF	<	0.468	pCi/L	0.16	0.42		U	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-228	EPA:904	F	<	0.311	pCi/L	0.21	0.69	U	U	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Ra-228	EPA:904	UF	<	0.376	pCi/L	0.21	0.68	U	U	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Sr-90	EPA:905.0	F	<	0.026	pCi/L	0.12	0.40	U	U	FD	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Sr-90	EPA:905.0	UF	<	0.365	pCi/L	0.14	0.43	U	U	FD	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	5/14/09	Th-228	HASL-300:ISOTH	F	<	-0.004	pCi/L	0.007	0.150	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-228	HASL-300:ISOTH	UF		0.146	pCi/L	0.018	0.094			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-230	HASL-300:ISOTH	F	<	0.01	pCi/L	0.006	0.100	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-230	HASL-300:ISOTH	UF		0.104	pCi/L	0.015	0.064			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-232	HASL-300:ISOTH	F	<	0.003	pCi/L	0.003	0.042	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	Th-232	HASL-300:ISOTH	UF		0.095	pCi/L	0.014	0.026			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-234	HASL-300:ISOU	F		0.448	pCi/L	0.052	0.150			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-234	HASL-300:ISOU	UF		0.517	pCi/L	0.055	0.140			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-235/236	HASL-300:ISOU	F	<	0.027	pCi/L	0.013	0.067	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-235/236	HASL-300:ISOU	UF	<	0.042	pCi/L	0.015	0.064	U	U	FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-238	HASL-300:ISOU	F		0.219	pCi/L	0.032	0.072			FD	GELC		
Rio Grande at Otowi Bridge	5/14/09	U-238	HASL-300:ISOU	UF		0.31	pCi/L	0.039	0.069			FD	GELC		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	5/14/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	5/14/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	5/14/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	U	R	V7b		GELC
Rio Grande at Otowi Bridge	5/14/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	U	UJ	V7c		GELC
Rio Grande at Otowi Bridge	5/14/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Suite Code	Anyl Meth Code	Fld Prep Code	Result	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	all analytes	VOA	SW-846:8260B	UF	none detected	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Suite Code	Anyl Meth Code	Fld Prep Code	Result	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	all analytes	VOA	SW-846:8260B	UF	none detected	U	U	U_LAB	FD	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	05/14/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	62-53-3	Aniline	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	12.3	ug/L	U	R	SV7b		GELC
Rio Grande at Otowi Bridge	05/14/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	92-87-5	Benzidine	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7a		GELC
Rio Grande at Otowi Bridge	05/14/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	24.7	ug/L	U	R	SV12		GELC
Rio Grande at Otowi Bridge	05/14/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7c		GELC
Rio Grande at Otowi Bridge	05/14/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7c		GELC
Rio Grande at Otowi Bridge	05/14/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	24.7	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld Qc Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	05/14/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	78-59-1	Isophorone	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7a		GELC
Rio Grande at Otowi Bridge	05/14/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7c		GELC
Rio Grande at Otowi Bridge	05/14/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	12.3	ug/L	U	UJ	SV7a		GELC
Rio Grande at Otowi Bridge	05/14/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	108-95-2	Phenol	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	110-86-1	Pyridine	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	05/14/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	12.3	ug/L	U	U	U_LAB		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Suite Code**	**Anyl Meth Code**	**Fld Prep Code**		**Result**		**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld Qc Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	5/14/09	all analytes	SVOA	SW-846:8270C	UF		none detected		U	U	U_LAB	FD	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.05	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.23	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.581	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.041	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.021	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.206	ug/L	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.515	ug/L	U	U	U_LAB	FD	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.123	ug/L	0.041	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.105	ug/L	0.035	U	U	U_LAB	FD	GELC
Rio Grande at Otowi Bridge	5/14/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.103	ug/L	0.034	U	U	U_LAB	FD	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld QC Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	5/14/09	1336-36-3	Total PCB	EPA:1668A	UF		0.0001370	ug/L	0.0000554					ALTC
Rio Grande at Otowi Bridge	5/14/09	1336-36-3	Total PCB	EPA:1668A	F		0.0002700	ug/L	0.0000539					ALTC
Rio Grande at Otowi Bridge	5/14/09	1336-36-3	Total PCB	EPA:1668A	UF		0.0000815	ug/L	0.0000515				PEB	ALTC
Rio Grande at Otowi Bridge	5/14/09	1336-36-3	Total PCB	EPA:1668A	F		0.0001660	ug/L	0.0000561				FD	ALTC
Rio Grande at Otowi Bridge	5/14/09	1336-36-3	Total PCB	EPA:1668A	UF		0.0001320	ug/L	0.0000517				FD	ALTC

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	05/14/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U		GELC		
Rio Grande at Otowi Bridge	05/14/09	ALK-CO3+HCO3	EPA:310.1	UF		67.1	mg/L	0.73				GELC		
Rio Grande at Otowi Bridge	05/14/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U		GELC		
Rio Grande at Otowi Bridge	05/14/09	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	0.002	U	U		GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ca	SW-846:6010B	UF		29.3	mg/L	0.03				GELC		
Rio Grande at Otowi Bridge	05/14/09	Ca	SW-846:6010B	F		24.7	mg/L	0.03				GELC		
Rio Grande at Otowi Bridge	05/14/09	Cl(-1)	EPA:300.0	UF		2.08	mg/L	0.066				GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	ClO4	SW-846:6850	UF		0.07	ug/L	0.05	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	DO	Field Measurement	UF		9.65	mg/L					FLD		
Rio Grande at Otowi Bridge	05/14/09	F(-1)	EPA:300.0	UF		0.189	mg/L	0.033				GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	HARDNESS	SM:A2340B	UF		96.7	mg/L	0.35				GELC		
Rio Grande at Otowi Bridge	05/14/09	HARDNESS	SM:A2340B	F		79.2	mg/L	0.35				GELC		
Rio Grande at Otowi Bridge	05/14/09	K	SW-846:6010B	F		2.0	mg/L	0.05				GELC		
Rio Grande at Otowi Bridge	05/14/09	K	SW-846:6010B	UF		3.2	mg/L	0.05				GELC		
Rio Grande at Otowi Bridge	05/14/09	Mg	SW-846:6010B	F		4.3	mg/L	0.085				GELC		
Rio Grande at Otowi Bridge	05/14/09	Mg	SW-846:6010B	UF		5.7	mg/L	0.085				GELC		
Rio Grande at Otowi Bridge	05/14/09	NH3-N	EPA:350.1	UF	<	0.09	mg/L	0.016		U		GELC		
Rio Grande at Otowi Bridge	05/14/09	NO3+NO2-N	EPA:353.2	UF		0.106	mg/L	0.05	J	J		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Na	SW-846:6010B	UF		9.1	mg/L	0.05				GELC		
Rio Grande at Otowi Bridge	05/14/09	Na	SW-846:6010B	F		8.51	mg/L	0.05				GELC		
Rio Grande at Otowi Bridge	05/14/09	ORP	Generic Field Measurement	UF		525	mV					FLD		
Rio Grande at Otowi Bridge	05/14/09	PO4-P	EPA:365.4	UF		0.19	mg/L	0.02				GELC		
Rio Grande at Otowi Bridge	05/14/09	SO4(-2)	EPA:300.0	UF		25.6	mg/L	0.1				GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	SPEC_CONDC	FIELD CONDUCTIVITY	UF		168	uS/cm					FLD		
Rio Grande at Otowi Bridge	05/14/09	SPEC_CONDC	EPA:120.1	UF		195	uS/cm	1				GELC		
Rio Grande at Otowi Bridge	05/14/09	SSC	EPA:160.2	UF		117	mg/L	2.3				GELC		
Rio Grande at Otowi Bridge	05/14/09	TDS	EPA:160.1	UF		144	mg/L	2.4		J		GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	TEMP	GENERIC FIELD TEMP	UF		12.8	deg C					FLD		
Rio Grande at Otowi Bridge	05/14/09	TKN	EPA:351.2	UF		0.28	mg/L	0.033				GELC		
Rio Grande at Otowi Bridge	05/14/09	TOC	SW-846:9060	UF		5.8	mg/L	0.33				GELC		
Rio Grande at Otowi Bridge	05/14/09	TURB	GENERIC FIELD TURB	UF		72.0	NTU					FLD		
Rio Grande at Otowi Bridge	05/14/09	pH	EPA:150.1	UF		8.02	SU	0.01	H	J-		GELC	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	pH	GENERIC FIELD PH	UF		7.04	SU					FLD	6.5-8.5	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	05/14/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	ALK-CO3+HCO3	EPA:310.1	UF		67.1	mg/L	0.73			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	CN(TOTAL)	EPA:335.3	UF	<	0.005	mg/L	0.002	U	U	FD	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ca	SW-846:6010B	F		24	mg/L	0.03			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Ca	SW-846:6010B	UF		29.9	mg/L	0.03			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Cl(-1)	EPA:300.0	UF		2.08	mg/L	0.066			FD	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	ClO4	SW-846:6850	UF		0.062	ug/L	0.05	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	F(-1)	EPA:300.0	UF		0.183	mg/L	0.033			FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	HARDNESS	SM:A2340B	F		77.3	mg/L	0.35			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	HARDNESS	SM:A2340B	UF		98.2	mg/L	0.35			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	K	SW-846:6010B	UF		3.11	mg/L	0.05			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	K	SW-846:6010B	F		1.95	mg/L	0.05			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Mg	SW-846:6010B	UF		5.71	mg/L	0.085			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Mg	SW-846:6010B	F		4.24	mg/L	0.085			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	NH3-N	EPA:350.1	UF	<	0.083	mg/L	0.016		U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	NO3+NO2-N	EPA:353.2	UF	<	0.05	mg/L	0.01	U	U	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Na	SW-846:6010B	UF		9.17	mg/L	0.045			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Na	SW-846:6010B	F		8.28	mg/L	0.045			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	PO4-P	EPA:365.4	UF		0.187	mg/L	0.015			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	SO4(-2)	EPA:300.0	UF		25.6	mg/L	0.1			FD	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	SPEC_CONDC	EPA:120.1	UF		194	uS/cm	1			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	SSC	EPA:160.2	UF		176	mg/L	2.9			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	TDS	EPA:160.1	UF		145	mg/L	2.4		J	FD	GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	TKN	EPA:351.2	UF		0.323	mg/L	0.033			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	TOC	SW-846:9060	UF		5.86	mg/L	0.33			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	pH	EPA:150.1	UF		8.01	SU	0.01	H	J-	FD	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	05/14/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2		U		GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Al	SW-846:6010B	F	<	200	ug/L	68	UN	UJ		GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Al	SW-846:6010B	UF		4870	ug/L	68	N	J+		GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	B	SW-846:6010B	UF		25.7	ug/L	10	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	B	SW-846:6010B	F		22.1	ug/L	10	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	Ba	SW-846:6010B	UF		89.7	ug/L	1				GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ba	SW-846:6010B	F		37	ug/L	1		J		GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U		GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cd	SW-846:6020	UF		0.125	ug/L	0.11	J	J		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Co	SW-846:6010B	UF		1.7	ug/L	1	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U		GELC		
Rio Grande at Otowi Bridge	05/14/09	Cr	SW-846:6020	UF		3.83	ug/L	1.5				GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U		GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cu	SW-846:6010B	UF		5.49	ug/L	3	J	J		GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Fe	SW-846:6010B	F	<	100	ug/L	25	U	U		GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Fe	SW-846:6010B	UF		4020	ug/L	25				GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mn	SW-846:6010B	UF		145	ug/L	2				GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mn	SW-846:6010B	F		5.23	ug/L	2	J	J		GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mo	SW-846:6020	UF		2.01	ug/L	0.1				GELC		
Rio Grande at Otowi Bridge	05/14/09	Mo	SW-846:6020	F		1.74	ug/L	0.1				GELC		
Rio Grande at Otowi Bridge	05/14/09	Ni	SW-846:6020	UF		4.1	ug/L	0.5				GELC		
Rio Grande at Otowi Bridge	05/14/09	Ni	SW-846:6020	F		1.4	ug/L	0.5	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Pb	SW-846:6020	UF		5.69	ug/L	0.5				GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U		GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U		GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	SiO2	SW-846:6010B	UF		39.6	mg/L	0.03	N	J+		GELC		
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	05/14/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U		GELC		
Rio Grande at Otowi Bridge	05/14/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U		GELC		
Rio Grande at Otowi Bridge	05/14/09	Sr	SW-846:6010E	F		165	ug/L	1				GELC		
Rio Grande at Otowi Bridge	05/14/09	Sr	SW-846:6010B	UF		192	ug/L	1				GELC		
Rio Grande at Otowi Bridge	05/14/09	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Tl	SW-846:6020	UF	<	0.4	ug/L	0.3	J	U		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	U	SW-846:6020	F		1.0	ug/L	0.05				GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	U	SW-846:6020	UF		1.4	ug/L	0.05				GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	V	SW-846:6010B	F		3.29	ug/L	1	J	J		GELC		
Rio Grande at Otowi Bridge	05/14/09	V	SW-846:6010B	UF		11.1	ug/L	1				GELC		
Rio Grande at Otowi Bridge	05/14/09	Zn	SW-846:6010B	F		2.15	ug/L	2	J	J		GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Zn	SW-846:6010B	UF		19.4	ug/L	2				GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	FD	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	FD	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Al	SW-846:6010B	F	<	200	ug/L	68	UN	UJ	FD	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Al	SW-846:6010B	UF		4620	ug/L	68	N	J+	FD	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	B	SW-846:6010B	F		19.7	ug/L	10	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	B	SW-846:6010B	UF		23	ug/L	10	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Ba	SW-846:6010B	F		38.2	ug/L	1		J	FD	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Ba	SW-846:6010B	UF		97.6	ug/L	1			FD	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cd	SW-846:6020	UF		0.111	ug/L	0.11	J	J	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Co	SW-846:6010B	UF		1.68	ug/L	1	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Cr	SW-846:6020	UF		3.41	ug/L	1.5			FD	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	FD	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cu	SW-846:6010B	UF		5.66	ug/L	3	J	J	FD	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	FD	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Fe	SW-846:6010B	UF		3900	ug/L	25			FD	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Fe	SW-846:6010B	F		57.5	ug/L	25	J	J	FD	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.067	U	U	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mn	SW-846:6010B	F		6.47	ug/L	2	J	J	FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mn	SW-846:6010B	UF		154	ug/L	2			FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Mo	SW-846:6020	F		1.71	ug/L	0.1			FD	GELC		
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	05/14/09	Mo	SW-846:6020	UF		1.91	ug/L	0.1			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Ni	SW-846:6020	UF		4.15	ug/L	0.5			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Ni	SW-846:6020	F		1.35	ug/L	0.5	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Pb	SW-846:6020	UF		5.66	ug/L	0.5			FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Sb	SW-846:6020	F	<	2	ug/L	0.5	U	U	FD	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Sb	SW-846:6020	UF	<	2	ug/L	0.5	U	U	FD	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	FD	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	FD	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	SiO2	SW-846:6010B	UF		39.8	mg/L	0.032	N	J+	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Sr	SW-846:6010B	UF		194	ug/L	1			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Sr	SW-846:6010B	F		160	ug/L	1			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	U	SW-846:6020	F		1.03	ug/L	0.05			FD	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	U	SW-846:6020	UF		1.43	ug/L	0.05			FD	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	05/14/09	V	SW-846:6010B	F		3.04	ug/L	1	J	J	FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	V	SW-846:6010B	UF		11.2	ug/L	1			FD	GELC		
Rio Grande at Otowi Bridge	05/14/09	Zn	SW-846:6010B	F		2.75	ug/L	2	J	J	FD	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	05/14/09	Zn	SW-846:6010B	UF		19.6	ug/L	2			FD	GELC	5000	EPA SEC DW LVL

Laboratory Report for

Los Alamos National Laboratory

Request # 09-1911

(Samples: CAWR-09)

June 2, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

June 2, 2009

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545

Re: DBS&A Laboratory Report for LANL Request # 09-1911; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-1911; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, which were received in water filled 1-gallon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
Soil Testing & Research Laboratory
5840 Osuna Rd. NE
Albuquerque, NM 87109
505-889-7752
FAX 505-889-0258

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-8348																X						
CAWR-09-8350																X						
CAWR-09-8354																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-8348	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8350	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8354	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insufficient sample quantity.

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-8348	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8350	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-8354	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Note: Extrapolation was required due to insufficient sample quantity.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8348
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.74
Weight Passing #10 (g): 0.74
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.74
Calculated Weight of Sieve Sample (g): 0.74

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.74	100.00
	2"	50	0.00	0.00	0.74	100.00
	1.5"	38.1	0.00	0.00	0.74	100.00
	1"	25	0.00	0.00	0.74	100.00
	3/4"	19.0	0.00	0.00	0.74	100.00
	3/8"	9.5	0.00	0.00	0.74	100.00
	4	4.75	0.00	0.00	0.74	100.00
	10	2.00	0.00	0.00	0.74	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.74	100.00
	40	0.425	0.01	0.01	0.73	98.65
	60	0.250	0.01	0.02	0.72	97.30
	140	0.106	0.06	0.08	0.66	89.19
	200	0.075	0.06	0.14	0.60	81.08
	dry pan		0.03	0.17	0.57	
	wet pan			0.57	0.00	

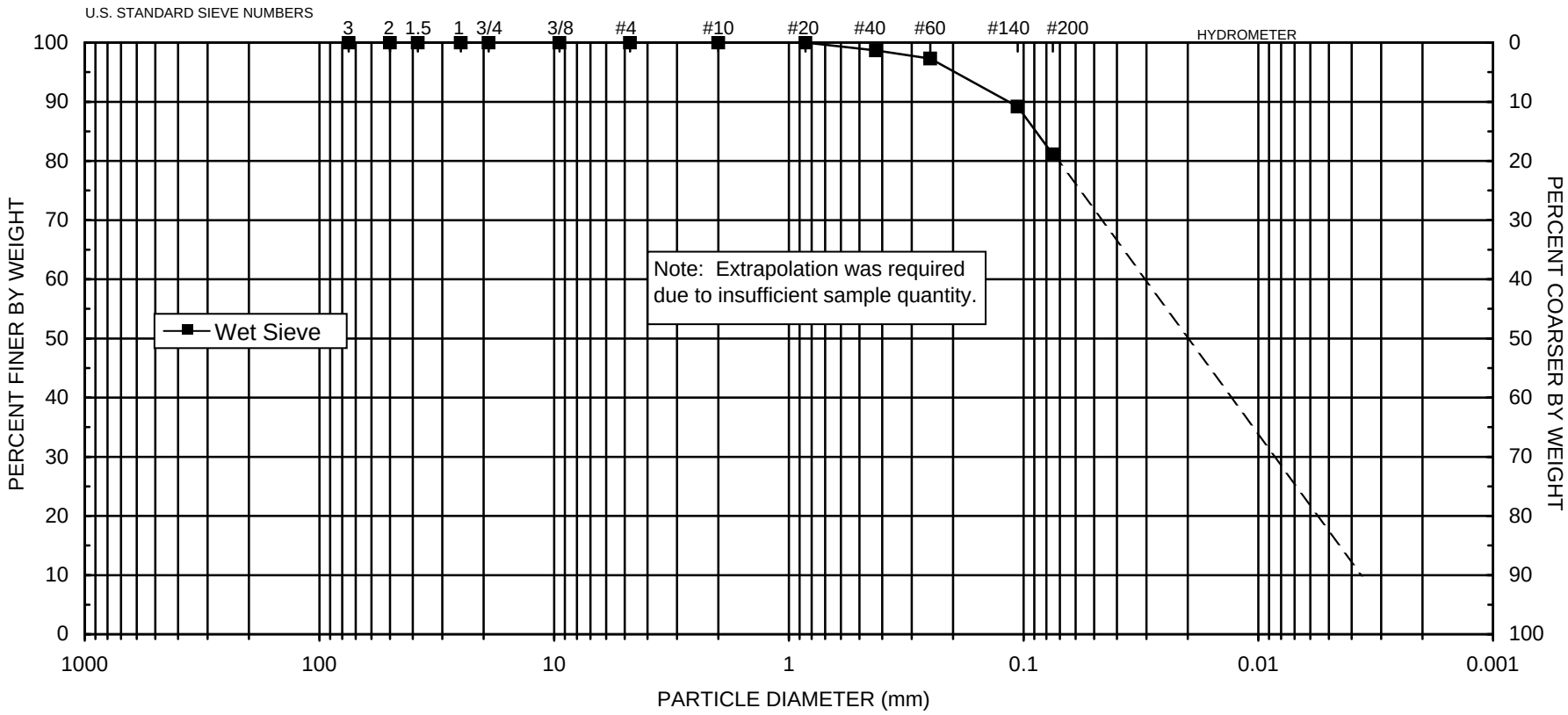
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8348	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8350
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.84
Weight Passing #10 (g): 0.84
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.84
Calculated Weight of Sieve Sample (g): 0.84

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.84	100.00
	2"	50	0.00	0.00	0.84	100.00
	1.5"	38.1	0.00	0.00	0.84	100.00
	1"	25	0.00	0.00	0.84	100.00
	3/4"	19.0	0.00	0.00	0.84	100.00
	3/8"	9.5	0.00	0.00	0.84	100.00
	4	4.75	0.00	0.00	0.84	100.00
	10	2.00	0.00	0.00	0.84	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.03	0.03	0.81	96.43
	40	0.425	0.01	0.04	0.80	95.24
	60	0.250	0.08	0.12	0.72	85.71
	140	0.106	0.02	0.14	0.70	83.33
	200	0.075	0.09	0.23	0.61	72.62
	dry pan		0.02	0.25	0.59	
	wet pan			0.59	0.00	

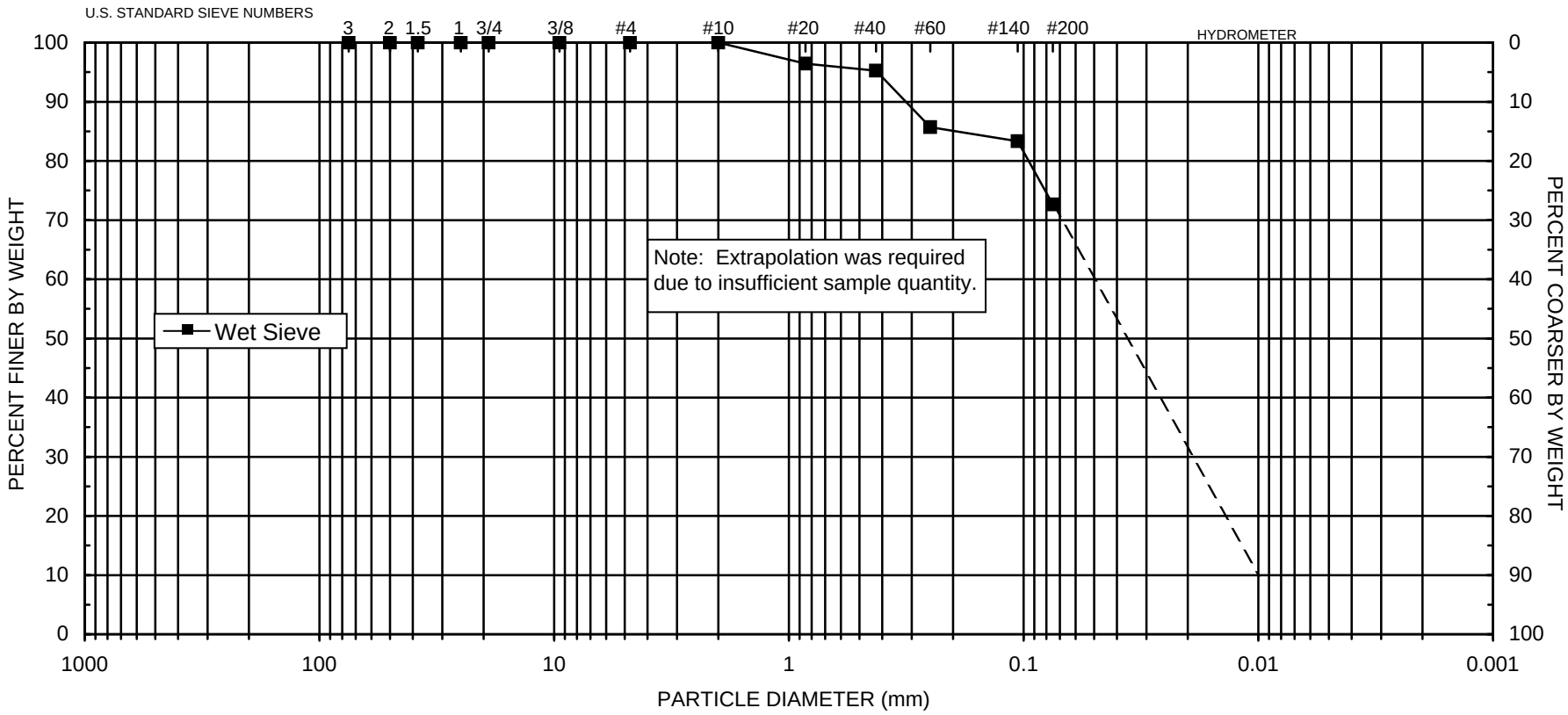
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8350	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0114.00
Sample Number: CAWR-09-8354
Request Number: 09-1911
Depth: NA
Test Date: 26-May-09

Initial Dry Weight of Sample (g): 0.77
Weight Passing #10 (g): 0.77
Weight Retained #10 (g): 0.00
Weight of -10 Sieve Sample (g): 0.77
Calculated Weight of Sieve Sample (g): 0.77

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.77	100.00
	2"	50	0.00	0.00	0.77	100.00
	1.5"	38.1	0.00	0.00	0.77	100.00
	1"	25	0.00	0.00	0.77	100.00
	3/4"	19.0	0.00	0.00	0.77	100.00
	3/8"	9.5	0.00	0.00	0.77	100.00
	4	4.75	0.00	0.00	0.77	100.00
	10	2.00	0.00	0.00	0.77	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.77	100.00
	40	0.425	0.00	0.00	0.77	100.00
	60	0.250	0.03	0.03	0.74	96.10
	140	0.106	0.08	0.11	0.66	85.71
	200	0.075	0.06	0.17	0.60	77.92
	dry pan		0.02	0.19	0.58	
	wet pan			0.58	0.00	

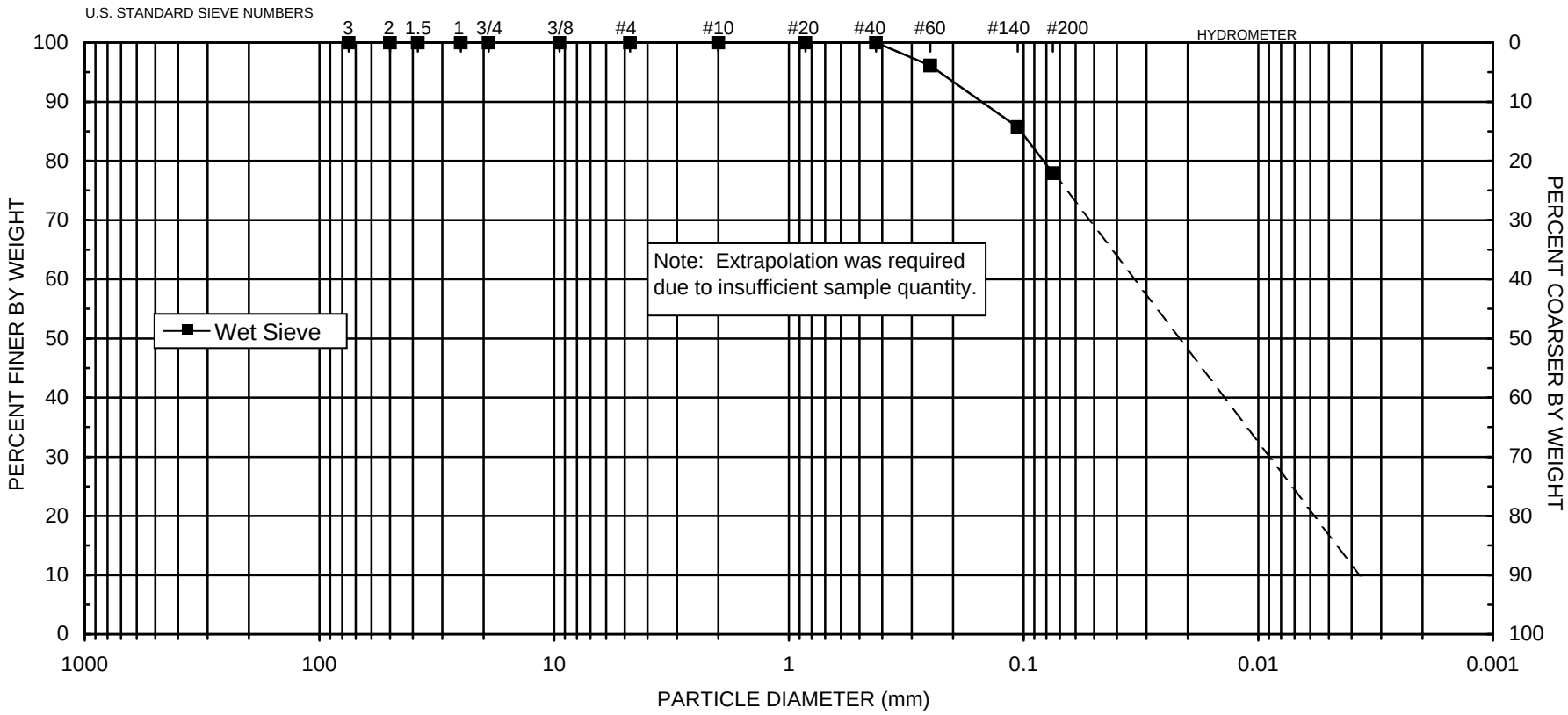
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc --$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter --$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY				
		Coarse	Fine	Coarse	Medium	Fine					
USDA	COBBLES	GRAVEL		SAND				SILT			CLAY
				Very coarse	Coarse	Medium	Fine	Very fine			

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-8354	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confimed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the N
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualify the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -60%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for us
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -60%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12a
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is =<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is =<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitat
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated c package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librai
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is =5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and =2 times the applicable holding time requiremen
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremen
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is =<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is =< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is =<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevatec
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standard
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <70
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RSD> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MD
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or eqaul to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptable for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceed
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reportec
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal tc the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SVI
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hi
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the ME
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR6	VOC_VR6
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scrn Lvl Type Code
Rio Grande at Otowi Bridge	7/15/09	Am-241	HASL-300:AM-241	F	<	0.0090	pCi/L	0.007	0.051	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Am-241	HASL-300:AM-241	UF	<	0.0002	pCi/L	0.004	0.052	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Co-60	EPA:901.1	F	<	-1.02	pCi/L	1.3	3.9	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Co-60	EPA:901.1	UF	<	-1.83	pCi/L	1.1	2.9	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Cs-137	EPA:901.1	F	<	-1.93	pCi/L	1.5	4.6	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Cs-137	EPA:901.1	UF	<	-0.09	pCi/L	1.3	4.2	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	GROSSA	EPA:900	F	<	2.26	pCi/L	0.8	2.0		U	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	GROSSA	EPA:900	UF		5.63	pCi/L	1.7	3.3			GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	GROSSB	EPA:900	F		4.40	pCi/L	0.97	2.7			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	7/15/09	GROSSB	EPA:900	UF		12.7	pCi/L	1.9	3.5			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	7/15/09	GROSSG	EPA:901.1	F	<	39.5	pCi/L	42	47	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	GROSSG	EPA:901.1	UF	<	37.6	pCi/L	26	42	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	H-3	Low_Level_Tritium	UF		20.2	pCi/L	0.67	0.29			UMTL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	K-40	EPA:901.1	F	<	-32.6	pCi/L	14	40	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	K-40	EPA:901.1	UF	<	-10.5	pCi/L	18	64	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Na-22	EPA:901.1	F	<	-0.529	pCi/L	1.2	4.0	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Na-22	EPA:901.1	UF	<	-0.402	pCi/L	1.4	4.4	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Np-237	EPA:901.1	F	<	-14.1	pCi/L	9.1	28	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Np-237	EPA:901.1	UF	<	-21.3	pCi/L	9.8	30	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Pu-238	HASL-300:ISOPU	F	<	-0.005	pCi/L	0.009	0.083	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Pu-238	HASL-300:ISOPU	UF	<	0.010	pCi/L	0.006	0.053	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Pu-239/240	HASL-300:ISOPU	F	<	-0.016	pCi/L	0.010	0.100	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.000	pCi/L	0.005	0.065	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Ra-226	EPA:903.1	F	<	0.37	pCi/L	0.14	0.39	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Ra-226	EPA:903.1	UF	<	0.18	pCi/L	0.09	0.23	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Ra-228	EPA:904	F	<	0.49	pCi/L	0.26	0.81	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Ra-228	EPA:904	UF	<	0.30	pCi/L	0.28	0.93	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Sr-90	EPA:905.0	F	<	0.24	pCi/L	0.15	0.48	U	U	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Sr-90	EPA:905.0	UF	<	-0.25	pCi/L	0.09	0.39	U	U	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	7/15/09	Th-228	HASL-300:ISOTH	F	<	-0.004	pCi/L	0.004	0.150	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Th-228	HASL-300:ISOTH	UF		0.271	pCi/L	0.032	0.150			GELC		
Rio Grande at Otowi Bridge	7/15/09	Th-230	HASL-300:ISOTH	F	<	0.007	pCi/L	0.005	0.110	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Th-230	HASL-300:ISOTH	UF		0.190	pCi/L	0.025	0.110			GELC		
Rio Grande at Otowi Bridge	7/15/09	Th-232	HASL-300:ISOTH	F	<	-0.005	pCi/L	0.004	0.044	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	Th-232	HASL-300:ISOTH	UF		0.210	pCi/L	0.027	0.043			GELC		
Rio Grande at Otowi Bridge	7/15/09	U-234	HASL-300:ISOU	F		0.786	pCi/L	0.064	0.064			GELC		
Rio Grande at Otowi Bridge	7/15/09	U-234	HASL-300:ISOU	UF		0.750	pCi/L	0.065	0.078			GELC		
Rio Grande at Otowi Bridge	7/15/09	U-235/236	HASL-300:ISOU	F		0.039	pCi/L	0.010	0.031			GELC		
Rio Grande at Otowi Bridge	7/15/09	U-235/236	HASL-300:ISOU	UF	<	0.025	pCi/L	0.010	0.038	U	U	GELC		
Rio Grande at Otowi Bridge	7/15/09	U-238	HASL-300:ISOU	F		0.429	pCi/L	0.040	0.031			GELC		
Rio Grande at Otowi Bridge	7/15/09	U-238	HASL-300:ISOU	UF		0.513	pCi/L	0.048	0.038			GELC		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	7/15/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	U	UJ	VTc	GELC
Rio Grande at Otowi Bridge	7/15/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	R	VTb		GELC
Rio Grande at Otowi Bridge	7/15/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	87-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTb		GELC
Rio Grande at Otowi Bridge	7/15/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	107-12-0	Propanenitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc		GELC
Rio Grande at Otowi Bridge	7/15/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	7/15/09	67-64-1	Acetone	SW-846:8260B	UF	10.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	R	VTb	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	7/15/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	87-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTb	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	107-12-0	Propanenitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTc	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	7/15/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	07/15/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	62-53-3	Aniline	SW-846:8270C	UF	<	12	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	07/15/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	12	ug/L	U	R	SV7b	GELC
Rio Grande at Otowi Bridge	07/15/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	92-87-5	Benzidine	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	24.1	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	07/15/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	12	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	07/15/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	24.1	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Rio Grande at Otowi Bridge	07/15/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	12	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	07/15/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	78-59-1	Isophorone	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	108-95-2	Phenol	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.2	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	110-86-1	Pyridine	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	07/15/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	12	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	7/15/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.21	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.532	ug/L	U	U	U_LAB		GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	7/15/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.033	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	7/15/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.10	ug/L	0.034	U	U	U_LAB		GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Fld QC Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	7/15/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000568	ug/L	0.0000568	U	U	U_LAB		ALTC
Rio Grande at Otowi Bridge	7/15/09	1336-36-3	Total PCB	EPA:1668A	F		0.0002030	ug/L	0.0000538					ALTC
Rio Grande at Otowi Bridge	7/15/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000534	ug/L	0.0000534	U	U	U_LAB	FB	ALTC

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	07/15/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	GELC		
Rio Grande at Otowi Bridge	07/15/09	ALK-CO3+HCO3	EPA:310.1	UF		106	mg/L	0.73			GELC		
Rio Grande at Otowi Bridge	07/15/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U	GELC		
Rio Grande at Otowi Bridge	07/15/09	CN(TOTAL)	EPA:335.3	UF	<	0.01	mg/L	0	U	U	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Ca	SW-846:6010B	UF		43.1	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	07/15/09	Ca	SW-846:6010B	F		35.7	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	07/15/09	Cl(-1)	EPA:300.0	UF		3.61	mg/L	0.07			GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	ClO4	SW-846:6850	UF		0.06	ug/L	0.05	J	J	GELC		
Rio Grande at Otowi Bridge	07/15/09	DO	Generic Field Measurement	UF		7.02	mg/L				FLD		
Rio Grande at Otowi Bridge	07/15/09	F(-1)	EPA:300.0	UF		0.325	mg/L	0.03			GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	HARDNESS	SM:A2340B	F		115.0	mg/L	0.35			GELC		
Rio Grande at Otowi Bridge	07/15/09	HARDNESS	SM:A2340B	UF		139.0	mg/L	0.35			GELC		
Rio Grande at Otowi Bridge	07/15/09	K	SW-846:6010B	UF		3.4	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	07/15/09	K	SW-846:6010B	F		2.6	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	07/15/09	Mg	SW-846:6010B	F		6.4	mg/L	0.09			GELC		
Rio Grande at Otowi Bridge	07/15/09	Mg	SW-846:6010B	UF		7.7	mg/L	0.09			GELC		
Rio Grande at Otowi Bridge	07/15/09	NH3-N	EPA:350.1	UF		0.03	mg/L	0.02	J	J-	GELC		
Rio Grande at Otowi Bridge	07/15/09	NO3+NO2-N	EPA:353.2	UF		0.243	mg/L	0.05	J	J	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Na	SW-846:6010B	F		16.2	mg/L	0.10			GELC		
Rio Grande at Otowi Bridge	07/15/09	Na	SW-846:6010B	UF		15	mg/L	0.10			GELC		
Rio Grande at Otowi Bridge	07/15/09	ORP	Generic Field Measurement	UF		178	mV				FLD		
Rio Grande at Otowi Bridge	07/15/09	PO4-P	EPA:365.4	UF		0.27	mg/L	0.02			GELC		
Rio Grande at Otowi Bridge	07/15/09	SO4(-2)	EPA:300.0	UF		43.2	mg/L	0.2			GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	SPEC_CONDC	FIELD CONDUCTIVITY	UF		263	uS/cm				FLD		
Rio Grande at Otowi Bridge	07/15/09	SPEC_CONDC	EPA:120.1	UF		302	uS/cm	1			GELC		
Rio Grande at Otowi Bridge	07/15/09	SSC	EPA:160.2	UF		158	mg/L	3.4			GELC		
Rio Grande at Otowi Bridge	07/15/09	TDS	EPA:160.1	UF		217	mg/L	2.4		J	GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	TEMP	GENERIC FIELD TEMP	UF		19.6	deg C				FLD		
Rio Grande at Otowi Bridge	07/15/09	TKN	EPA:351.2	UF		0.38	mg/L	0.03			GELC		
Rio Grande at Otowi Bridge	07/15/09	TOC	SW-846:9060	UF		4.3	mg/L	0.33			GELC		
Rio Grande at Otowi Bridge	07/15/09	TURB	EPA:180.1	UF		93.9	NTU	0.5	H	J-	GELC		
Rio Grande at Otowi Bridge	07/15/09	pH	GENERIC FIELD PH	UF		7.24	SU				FLD	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	pH	EPA:150.1	UF		8.21	SU	0.01	H	J-	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	07/15/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Al	SW-846:6010B	UF		3550	ug/L	68			GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	As	SW-846:6020	UF	<	3.42	ug/L	1.5	J	U	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	B	SW-846:6010B	UF		34	ug/L	15	J	J	GELC		
Rio Grande at Otowi Bridge	07/15/09	B	SW-846:6010B	F		29.9	ug/L	15	J	J	GELC		
Rio Grande at Otowi Bridge	07/15/09	Ba	SW-846:6010B	UF		103.0	ug/L	1			GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Ba	SW-846:6010B	F		63.3	ug/L	1			GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Cd	SW-846:6020	UF	<	0.23	ug/L	0.11	J	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	GELC		
Rio Grande at Otowi Bridge	07/15/09	Co	SW-846:6010B	F		3.8	ug/L	1	J	J	GELC		
Rio Grande at Otowi Bridge	07/15/09	Cr	SW-846:6020	UF		5	ug/L	2.5	J	J	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Cu	SW-846:6010B	UF		3.42	ug/L	3	J	J	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Fe	SW-846:6010B	UF		2430	ug/L	30			GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Mn	SW-846:6010B	UF		141	ug/L	2			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Mn	SW-846:6010B	F		10.3	ug/L	2			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Mo	SW-846:6020	UF		3.94	ug/L	0.1			GELC		
Rio Grande at Otowi Bridge	07/15/09	Mo	SW-846:6020	F		3.91	ug/L	0.1			GELC		
Rio Grande at Otowi Bridge	07/15/09	Ni	SW-846:6020	UF		6.1	ug/L	0.5			GELC		
Rio Grande at Otowi Bridge	07/15/09	Ni	SW-846:6020	F		2.5	ug/L	0.5			GELC		
Rio Grande at Otowi Bridge	07/15/09	Pb	SW-846:6020	UF		2.82	ug/L	0.5			GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Sb	SW-846:6020	F	<	1.16	ug/L	0.5	J	U	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Sb	SW-846:6020	UF	<	0.805	ug/L	0.5	J	U	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	GELC	50	EPA PRIM DW LVL
Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	07/15/09	SiO2	SW-846:6010B	UF		36.9	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	07/15/09	Sn	SW-846:6010B	F	<	50	ug/L	13	U	U	GELC		
Rio Grande at Otowi Bridge	07/15/09	Sn	SW-846:6010B	UF	<	50	ug/L	13	U	U	GELC		
Rio Grande at Otowi Bridge	07/15/09	Sr	SW-846:6010B	F		282	ug/L	1			GELC		
Rio Grande at Otowi Bridge	07/15/09	Sr	SW-846:6010B	UF		291	ug/L	1			GELC		
Rio Grande at Otowi Bridge	07/15/09	Tl	SW-846:6020	UF	<	0.5	ug/L	0.3	J	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	U	SW-846:6020	UF		1.6	ug/L	0.05			GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	U	SW-846:6020	F		1.35	ug/L	0.05			GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	07/15/09	V	SW-846:6010B	F		3.92	ug/L	1	J	J	GELC		
Rio Grande at Otowi Bridge	07/15/09	V	SW-846:6010B	UF		9.54	ug/L	1			GELC		
Rio Grande at Otowi Bridge	07/15/09	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	07/15/09	Zn	SW-846:6010B	UF		10.1	ug/L	3.3			GELC	5000	EPA SEC DW LVL

Laboratory Report for

Los Alamos National Laboratory

Request # 09-2664

(Samples: CAWR-09)

July 31, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

July 31, 2009

Keith Greene
Los Alamos National Laboratory
TA00 Building 1237
MS M707
Droppoint 03U
Los Alamos, NM 87545-0600

Re: DBS&A Laboratory Report for LANL Request # 09-2664; CAWR-09 samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-2664; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, each received in one water filled 1-gallon jug, were air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 505-822-9400

Albuquerque, NM 87109 FAX 505-822-8877

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-10824																X						
CAWR-09-10830																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-10824	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-10830	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-10824	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-10830	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0147.00
Sample Number: CAWR-09-10824
Request Number: 09-2664
Depth: NA
Test Date: 27-Jul-09

Initial Dry Weight of Sample (g): 1.06
Weight Passing #10 (g): 1.06
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.10
Calculated Weight of Sieve Sample (g): 0.10

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	1.06	100.00
	2"	50	0.00	0.00	1.06	100.00
	1.5"	38.1	0.00	0.00	1.06	100.00
	1"	25	0.00	0.00	1.06	100.00
	3/4"	19.0	0.00	0.00	1.06	100.00
	3/8"	9.5	0.00	0.00	1.06	100.00
	4	4.75	0.00	0.00	1.06	100.00
	10	2.00	0.00	0.00	1.06	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.10	100.00
	40	0.425	0.00	0.00	0.10	100.00
	60	0.250	0.00	0.00	0.10	100.00
	140	0.106	0.03	0.03	0.07	70.00
	200	0.075	0.04	0.07	0.03	30.00
	dry pan		0.03	0.10	0.00	
	wet pan			0.00	0.00	

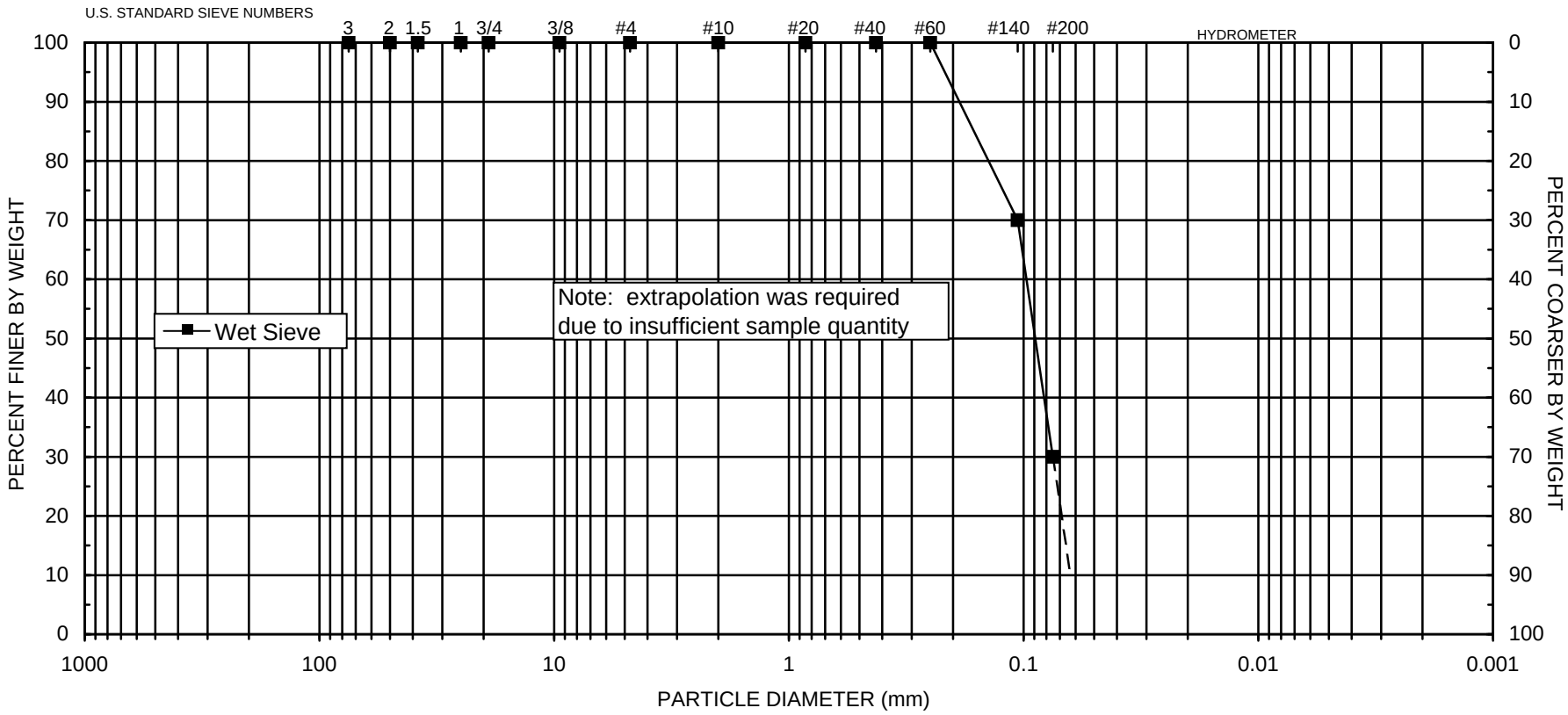
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

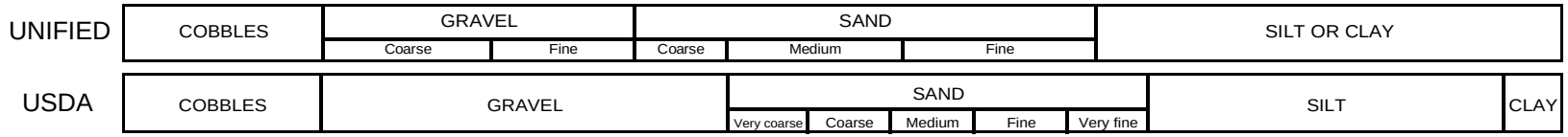
Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines





d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-10824	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

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Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0147.00
Sample Number: CAWR-09-10830
Request Number: 09-2664
Depth: NA
Test Date: 27-Jul-09

Initial Dry Weight of Sample (g): 0.72
Weight Passing #10 (g): 0.72
Weight Retained #10 (g): 0.00
Weight of Hydrometer Sample (g): 0.06
Calculated Weight of Sieve Sample (g): 0.06

Shape: Rounded
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.72	100.00
	2"	50	0.00	0.00	0.72	100.00
	1.5"	38.1	0.00	0.00	0.72	100.00
	1"	25	0.00	0.00	0.72	100.00
	3/4"	19.0	0.00	0.00	0.72	100.00
	3/8"	9.5	0.00	0.00	0.72	100.00
	4	4.75	0.00	0.00	0.72	100.00
	10	2.00	0.00	0.00	0.72	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.06	100.00
	40	0.425	0.00	0.00	0.06	100.00
	60	0.250	0.00	0.00	0.06	100.00
	140	0.106	0.02	0.02	0.04	66.67
	200	0.075	0.03	0.05	0.01	16.67
	dry pan		0.01	0.06	0.00	
	wet pan			0.00	0.00	

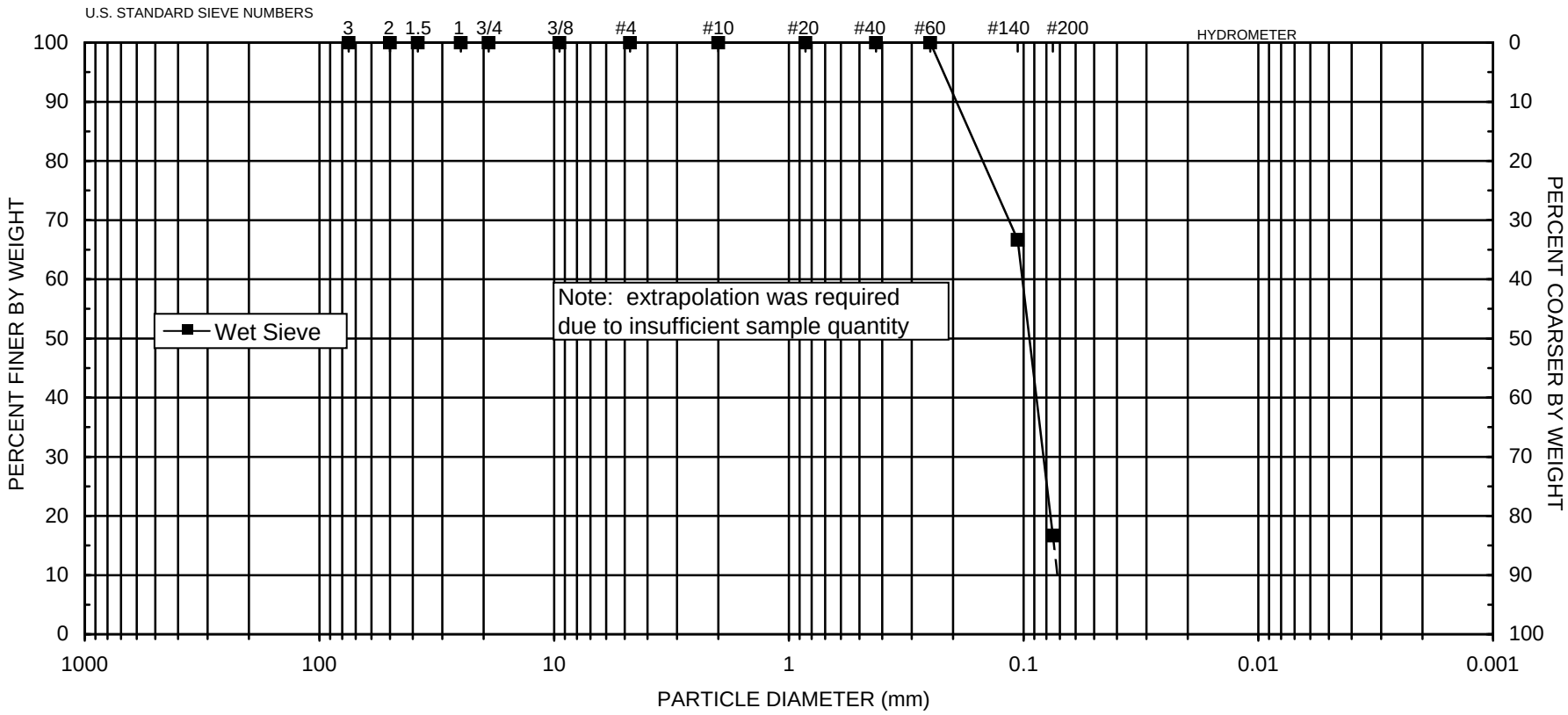
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter --d_{50} (mm): NA
Uniformity Coefficient, Cu --[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc --[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter --[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: extrapolation was required due to insufficient sample quantity

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT		CLAY
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-10830	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

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Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis: ASTM D422

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scrn Lvl Type Code
Rio Grande at Otowi Bridge	9/22/09	Am-241	HASL-300:AM-241	F	<	0.007	pCi/L	0.009	0.036	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Am-241	HASL-300:AM-241	UF	<	-0.013	pCi/L	0.008	0.035	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Co-60	EPA:901.1	F	<	-0.923	pCi/L	1	3.1	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Co-60	EPA:901.1	UF	<	0.809	pCi/L	1.3	4.5	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Cs-137	EPA:901.1	F	<	0.28	pCi/L	1.2	4.1	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Cs-137	EPA:901.1	UF	<	0.72	pCi/L	1.4	4.7	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	GROSSA	EPA:900	F	<	1.91	pCi/L	0.9	2.2	U	U	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	GROSSA	EPA:900	UF		5.20	pCi/L	0.89	1.8			GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	GROSSB	EPA:900	F		3.49	pCi/L	0.91	2.3			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	9/22/09	GROSSB	EPA:900	UF		5.21	pCi/L	1.2	3.2			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	9/22/09	GROSSG	EPA:901.1	F	<	25.5	pCi/L	29	72	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	GROSSG	EPA:901.1	UF	<	11.2	pCi/L	15	36	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	H-3	Low_Level_Tritium	UF		15.9	pCi/L	0.51	0.29			UMTL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	K-40	EPA:901.1	F	<	15.8	pCi/L	18	37	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	K-40	EPA:901.1	UF	<	48.5	pCi/L	16	59	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Na-22	EPA:901.1	F	<	0.079	pCi/L	1.3	4.4	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Na-22	EPA:901.1	UF	<	-0.112	pCi/L	1.3	4.2	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Np-237	EPA:901.1	F	<	-1.2	pCi/L	9.8	33	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Np-237	EPA:901.1	UF	<	6.2	pCi/L	11.0	37	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Pu-238	HASL-300:ISOPU	F	<	0.000	pCi/L	0.004	0.031	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Pu-238	HASL-300:ISOPU	UF	<	0.003	pCi/L	0.005	0.043	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Pu-239/240	HASL-300:ISOPU	F	<	-0.007	pCi/L	0.006	0.030	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Pu-239/240	HASL-300:ISOPU	UF	<	-0.005	pCi/L	0.006	0.042	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Ra-226	EPA:903.1	F	<	0.22	pCi/L	0.10	0.30	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Ra-226	EPA:903.1	UF		0.39	pCi/L	0.11	0.26			GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Ra-228	EPA:904	F	<	0.62	pCi/L	0.32	1.00	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Ra-228	EPA:904	UF	<	0.95	pCi/L	0.24	0.56		U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Sr-90	EPA:905.0	F	<	0.23	pCi/L	0.14	0.46	U	U	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Sr-90	EPA:905.0	UF	<	0.33	pCi/L	0.14	0.44	U	U	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	9/22/09	Th-228	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.003	0.065	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Th-228	HASL-300:ISOTH	UF	<	0.085	pCi/L	0.022	0.089	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Th-230	HASL-300:ISOTH	F	<	-0.001	pCi/L	0.003	0.082	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Th-230	HASL-300:ISOTH	UF	<	0.045	pCi/L	0.014	0.110	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Th-232	HASL-300:ISOTH	F	<	0.007	pCi/L	0.004	0.039	U	U	GELC		
Rio Grande at Otowi Bridge	9/22/09	Th-232	HASL-300:ISOTH	UF		0.106	pCi/L	0.020	0.053			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-234	HASL-300:ISOU	F		1.30	pCi/L	0.099	0.059			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-234	HASL-300:ISOU	UF		1.35	pCi/L	0.100	0.064			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-235/236	HASL-300:ISOU	F		0.062	pCi/L	0.012	0.030			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-235/236	HASL-300:ISOU	UF		0.067	pCi/L	0.014	0.033			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-238	HASL-300:ISOU	F		0.878	pCi/L	0.071	0.036			GELC		
Rio Grande at Otowi Bridge	9/22/09	U-238	HASL-300:ISOU	UF		0.862	pCi/L	0.071	0.039			GELC		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	67-64-1	Acetone	SW-846:8260B	UF	4.7	ug/L	J	U	Val		GELC
Rio Grande at Otowi Bridge	9/22/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	R	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	67-66-3	Chloroform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	74-87-3	Chloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	10061-02-6	Dichloropropene[(trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	10061-01-5	Dichloropropene[(cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	87-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	1634-04-4	Methyl tert-butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	107-12-0	Propanenitrile	SW-846:8260B	UF	5.0	ug/L	U	R	VTs		GELC
Rio Grande at Otowi Bridge	9/22/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	67-64-1	Acetone	SW-846:8260B	UF	3.8	ug/L	J	J	J_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-05-8	Acetonitrile	SW-846:8260B	UF	25.0	ug/L	U	R	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	107-02-8	Acrolein	SW-846:8260B	UF	5.0	ug/L	U	R	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	71-43-2	Benzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-86-1	Bromobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-25-2	Bromoform	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	74-83-9	Bromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	50.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	U	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-00-3	Chloroethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	67-66-3	Chloroform	SW-846:8260B	UF	0.4	ug/L	J	J	J_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	74-87-3	Chloromethane	SW-846:8260B	UF	0.4	ug/L	J	J	J_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	74-95-3	Dibromomethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC

Location Name	Start Date	Analyte	Analyte Desc	Anal Meth Code	Fld Prep Code	Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	10061-02-6	Dichloropropene[(trans-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	10061-01-5	Dichloropropene[(cis-1,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	87-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5.0	ug/L	U	UJ	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	74-88-4	Iodomethane	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50.0	ug/L	U	R	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	1634-04-4	Methyl tert-butyl Ether	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	10.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	91-20-3	Naphthalene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	107-12-0	Propanenitrile	SW-846:8260B	UF	5.0	ug/L	U	R	VTs	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	100-42-5	Styrene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-88-3	Toluene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	79-01-6	Trichloroethene	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	5.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1.0	ug/L	U	U	U_LAB	FTB	GELC
Rio Grande at Otowi Bridge	9/22/09	Xylene[1,3 and 1,4]	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2.0	ug/L	U	U	U_LAB	FTB	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	09/22/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	62-53-3	Aniline	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	11.6	ug/L	U	R	SV7b	GELC
Rio Grande at Otowi Bridge	09/22/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	92-87-5	Benzidine	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.16	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	23.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.16	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	51-28-5	Dinitrophenol[2,4-	SW-846:8270C	UF	<	23.3	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	121-14-2	Dinitrotoluene[2,4-	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Lab Qual Code**	**Concat Flag Code**	**Concat Reason Code**	**Lab Code**
Rio Grande at Otowi Bridge	09/22/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.16	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	78-59-1	Isophorone	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV7c	GELC
Rio Grande at Otowi Bridge	09/22/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	108-95-2	Phenol	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.16	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	110-86-1	Pyridine	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	09/22/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	11.6	ug/L	U	UJ	SV3a	GELC
Rio Grande at Otowi Bridge	09/22/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	11.6	ug/L	U	U	U_LAB	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Lab Qual Code	Concat Flag Code	Concat Reason Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	319-86-8	BHC[delta-]	SW-846:8081A	UF		0.009	ug/L	JP	J+	P3b	GELC
Rio Grande at Otowi Bridge	9/22/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF		0.011	ug/L	J	J+	P3b	GELC
Rio Grande at Otowi Bridge	9/22/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.22	ug/L	U	U	U_LAB	GELC
Rio Grande at Otowi Bridge	9/22/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.56	ug/L	U	U	U_LAB	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.036	U	U	U_LAB		GELC
Rio Grande at Otowi Bridge	9/22/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.11	ug/L	0.037	U	U	U_LAB		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Concat Reason Code	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	9/22/09	1336-36-3	Total PCB	EPA:1668A	F	<	0.0000534	ug/L	NA[1]	U	U	U_LAB		ALTC
Rio Grande at Otowi Bridge	9/22/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000541	ug/L	NA[1]	U	U	U_LAB		ALTC
Rio Grande at Otowi Bridge	9/22/09	1336-36-3	Total PCB	EPA:1668A	UF		0.0000262	ug/L	NA[1]				PEB	ALTC

Notes:
[1]NA means that no MDL is available because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	09/22/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	ALK-CO3+HCO3	EPA:310.1	UF		121	mg/L	0.73			GELC		
Rio Grande at Otowi Bridge	09/22/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.066	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	CN(TOTAL)	EPA:335.4	UF	<	0.01	mg/L	0.002	U	U	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Ca	SW-846:6010B	F		38.3	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	09/22/09	Ca	SW-846:6010B	UF		40.0	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	09/22/09	Cl(-1)	EPA:300.0	UF		5.52	mg/L	0.066			GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	ClO4	SW-846:6850	UF		0.15	ug/L	0.05	J	J	GELC		
Rio Grande at Otowi Bridge	09/22/09	DO	Generic Field Measurement	UF		8.13	mg/L				FLD		
Rio Grande at Otowi Bridge	09/22/09	F(-1)	EPA:300.0	UF		0.47	mg/L	0.033			GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	HARDNESS	SM:A2340B	F		123	mg/L	0.35			GELC		
Rio Grande at Otowi Bridge	09/22/09	HARDNESS	SM:A2340B	UF		133	mg/L	0.35			GELC		
Rio Grande at Otowi Bridge	09/22/09	K	SW-846:6010B	F		2.7	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	09/22/09	K	SW-846:6010B	UF		3.9	mg/L	0.05			GELC		
Rio Grande at Otowi Bridge	09/22/09	Mg	SW-846:6010B	F		6.8	mg/L	0.085			GELC		
Rio Grande at Otowi Bridge	09/22/09	Mg	SW-846:6010B	UF		8.1	mg/L	0.085			GELC		
Rio Grande at Otowi Bridge	09/22/09	NH3-N	EPA:350.1	UF	<	0.03	mg/L	0.016	J	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	NO3+NO2-N	EPA:353.2	UF	<	0.11	mg/L	0.05	J	U	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Na	SW-846:6010B	F		20.6	mg/L	0.10			GELC		
Rio Grande at Otowi Bridge	09/22/09	Na	SW-846:6010B	UF		20.3	mg/L	0.10			GELC		
Rio Grande at Otowi Bridge	09/22/09	ORP	Generic Field Measurement	UF		373	mV				FLD		
Rio Grande at Otowi Bridge	09/22/09	PO4-P	EPA:365.4	UF	<	0.12	mg/L	0.02		U	GELC		
Rio Grande at Otowi Bridge	09/22/09	SO4(-2)	EPA:300.0	UF		36.4	mg/L	0.2			GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	SPEC_CONDC	EPA:120.1	UF		329	uS/cm	1			GELC		
Rio Grande at Otowi Bridge	09/22/09	SPEC_CONDC	FIELD CONDUCTIVITY	UF		275	uS/cm				FLD		
Rio Grande at Otowi Bridge	09/22/09	SSC	EPA:160.2	UF		87.3	mg/L	3.8			GELC		
Rio Grande at Otowi Bridge	09/22/09	TDS	EPA:160.1	UF		212	mg/L	2.4			GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	TEMP	GENERIC FIELD TEMP	UF		13.2	deg C				FLD		
Rio Grande at Otowi Bridge	09/22/09	TKN	EPA:351.2	UF	<	0.28	mg/L	0.033		U	GELC		
Rio Grande at Otowi Bridge	09/22/09	TOC	SW-846:9060	UF		2.7	mg/L	0.33			GELC		
Rio Grande at Otowi Bridge	09/22/09	TURB	GENERIC FIELD TURB	UF		85.2	NTU				FLD		
Rio Grande at Otowi Bridge	09/22/09	pH	GENERIC FIELD PH	UF		7.74	SU				FLD	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	pH	EPA:150.1	UF		8.3	SU	0.01	H	J-	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	09/22/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Al	SW-846:6010B	UF		5600	ug/L	68			GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	As	SW-846:6020	UF		1.97	ug/L	1.5	J	J	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	B	SW-846:6010B	F		36.4	ug/L	15	J	J	GELC		
Rio Grande at Otowi Bridge	09/22/09	B	SW-846:6010B	UF		41.1	ug/L	15	J	J	GELC		
Rio Grande at Otowi Bridge	09/22/09	Ba	SW-846:6010B	F		69.3	ug/L	1			GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Ba	SW-846:6010B	UF		105	ug/L	1			GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Cd	SW-846:6020	UF		0.14	ug/L	0.11	J	J	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Cr	SW-846:6020	UF		2.81	ug/L	2.5	J	J	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Cu	SW-846:6010B	UF		5.94	ug/L	3	J	J	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Fe	SW-846:6010B	UF		3570	ug/L	30			GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.066	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.066	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Mn	SW-846:6010B	F		3.18	ug/L	2	J	J	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Mn	SW-846:6010B	UF		129	ug/L	2			GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Mo	SW-846:6020	F		7.01	ug/L	0.1			GELC		
Rio Grande at Otowi Bridge	09/22/09	Mo	SW-846:6020	UF		7.23	ug/L	0.1			GELC		
Rio Grande at Otowi Bridge	09/22/09	Ni	SW-846:6020	F		1.5	ug/L	0.5	J	J	GELC		
Rio Grande at Otowi Bridge	09/22/09	Ni	SW-846:6020	UF		4.3	ug/L	0.5			GELC		
Rio Grande at Otowi Bridge	09/22/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Pb	SW-846:6020	UF		2.74	ug/L	0.5			GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Sb	SW-846:6020	UF	<	0.56	ug/L	0.5	J	U	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	GELC	50	EPA PRIM DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	09/22/09	SiO2	SW-846:6010B	UF		48.2	mg/L	0.053			GELC		
Rio Grande at Otowi Bridge	09/22/09	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	GELC		
Rio Grande at Otowi Bridge	09/22/09	Sr	SW-846:6010B	F		293	ug/L	1			GELC		
Rio Grande at Otowi Bridge	09/22/09	Sr	SW-846:6010B	UF		305	ug/L	1			GELC		
Rio Grande at Otowi Bridge	09/22/09	Tl	SW-846:6020	F	<	1.0	ug/L	0.3	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	U	SW-846:6020	F		2.64	ug/L	0.05		J	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	U	SW-846:6020	UF		2.78	ug/L	0.05		J	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	09/22/09	V	SW-846:6010B	F		4.2	ug/L	1	J	J	GELC		
Rio Grande at Otowi Bridge	09/22/09	V	SW-846:6010B	UF		11.5	ug/L	1			GELC		
Rio Grande at Otowi Bridge	09/22/09	Zn	SW-846:6010B	F	<	6.58	ug/L	3.3	J	U	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	09/22/09	Zn	SW-846:6010B	UF	<	18.8	ug/L	3.3		U	GELC	5000	EPA SEC DW LVL

Laboratory Report for
Los Alamos National Laboratory

Request # 09-3308

(Samples: CAWR-09)

October 8, 2009

Daniel B. Stephens & Associates, Inc.

6020 Academy NE, Suite 100 • Albuquerque, New Mexico 87109

October 8, 2009

Keith Greene
Los Alamos National Laboratory
TA3 Building 271
MS K786
Droppoint 02U
Los Alamos, NM 87545-0600
(505) 665-9966

Re: DBS&A Laboratory Report for LANL Request # 09-3308; CAWR-09 Samples

Dear Mr. Greene:

Enclosed is the final report for the LANL Request # 09-3308; CAWR-09 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

The samples, which were received in water filled 1-gallon jugs, were initially heated on a hot plate to drive off the bulk of water then air dried to obtain the solid particles for particle size analysis. There was insufficient sample quantity to perform the hydrometer analysis. All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to LANL and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
LABORATORY / TESTING FACILITY

Ryan Marshall
Assistant Laboratory Manager
Enclosure

Daniel B. Stephens & Associates, Inc.
Soil Testing and Research Laboratory
5840 Osuna Rd., NE 505-889-7752
Albuquerque, NM 87109-2526 FAX 505-889-0258

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
CAWR-09-12946																X						
CAWR-09-12951																X						
CAWR-09-12956																X						

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-12946	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12951	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12956	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Laboratory Data and Graphical Plots

Particle Size Analysis

Summary of Particle Size Characteristics

Sample Number	d_{10} (mm)	d_{50} (mm)	d_{60} (mm)	C_u	C_c	Method	ASTM Classification	USDA Classification
CAWR-09-12946	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12951	NA	NA	NA	NA	NA	WS	NA	NA
CAWR-09-12956	NA	NA	NA	NA	NA	WS	NA	NA

d_{50} = Median particle diameter

Est = Reported values for d_{10}, C_u, C_c, and soil classification are estimates, since extrapolation was required to obtain the d_{10} diameter

$$C_u = \frac{d_{60}}{d_{10}}$$

$$C_c = \frac{(d_{30})^2}{(d_{10})(d_{60})}$$

DS = Dry sieve

H = Hydrometer

WS = Wet sieve

† Greater than 10% of sample is coarse material

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12946
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.83
Weight Passing #10 (g): 0.83
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.83
Calculated Weight of Sieve Sample (g): 0.83

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.83	100.00
	2"	50	0.00	0.00	0.83	100.00
	1.5"	38.1	0.00	0.00	0.83	100.00
	1"	25	0.00	0.00	0.83	100.00
	3/4"	19.0	0.00	0.00	0.83	100.00
	3/8"	9.5	0.00	0.00	0.83	100.00
	4	4.75	0.00	0.00	0.83	100.00
	10	2.00	0.00	0.00	0.83	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.83	100.00
	40	0.425	0.01	0.01	0.82	98.80
	60	0.250	0.02	0.03	0.80	96.39
	140	0.106	0.04	0.07	0.76	91.57
	200	0.075	0.01	0.08	0.75	90.36
	dry pan		0.00	0.08	0.75	
	wet pan			0.75	0.00	

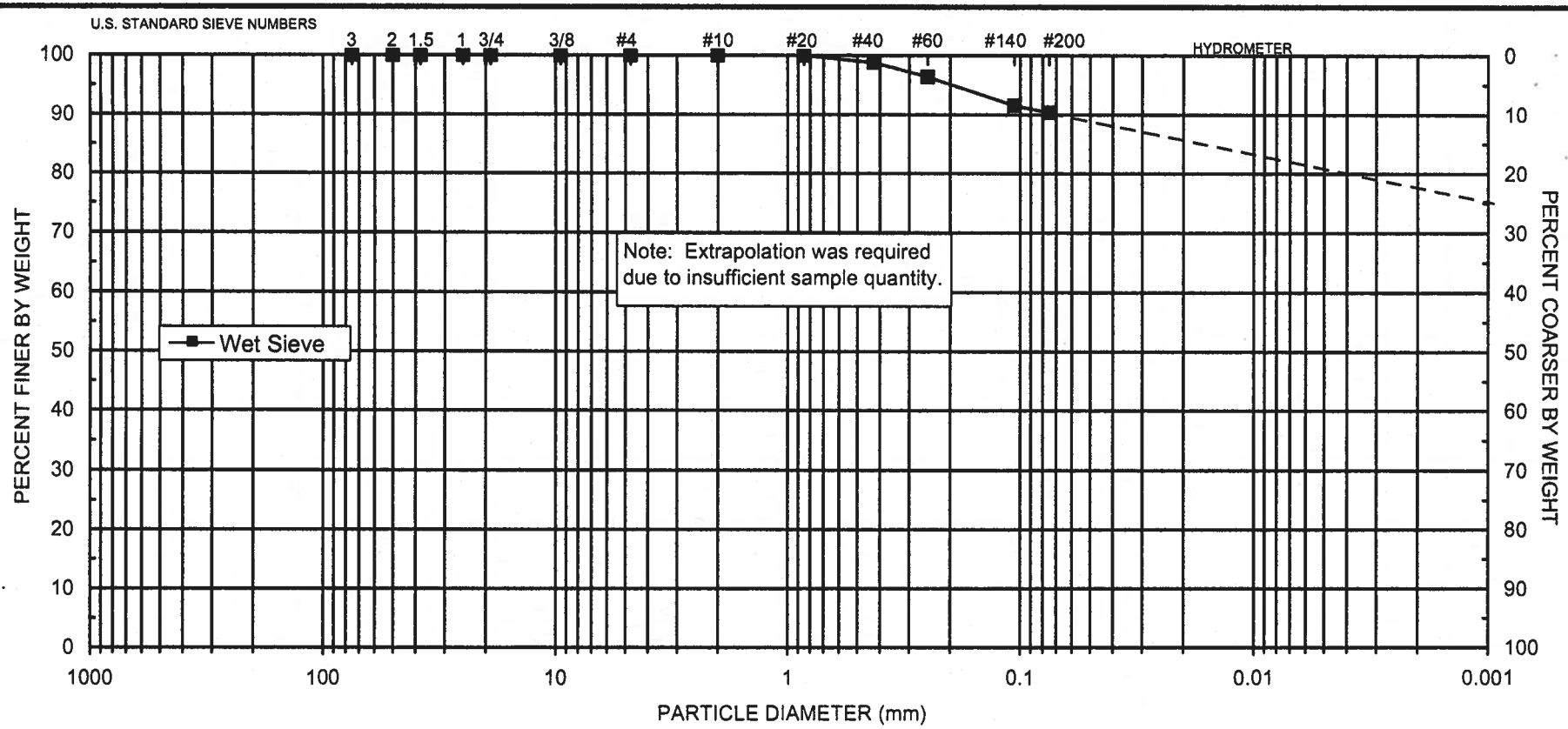
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL		SAND			SILT OR CLAY			
		Coarse	Fine	Coarse	Medium	Fine				
USDA	COBBLES	GRAVEL		SAND				SILT	CLAY	
				Very coarse	Coarse	Medium	Fine	Very fine		

d_{10} = **NA**	d_{30} = **NA**	d_{50} = **NA**	d_{60} = **NA**	C_u = **NA**	C_c = **NA**

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12946	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

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Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12951
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.83
Weight Passing #10 (g): 0.83
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.83
Calculated Weight of Sieve Sample (g): 0.83

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.83	100.00
	2"	50	0.00	0.00	0.83	100.00
	1.5"	38.1	0.00	0.00	0.83	100.00
	1"	25	0.00	0.00	0.83	100.00
	3/4"	19.0	0.00	0.00	0.83	100.00
	3/8"	9.5	0.00	0.00	0.83	100.00
	4	4.75	0.00	0.00	0.83	100.00
	10	2.00	0.00	0.00	0.83	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.83	100.00
	40	0.425	0.01	0.01	0.82	98.80
	60	0.250	0.01	0.02	0.81	97.59
	140	0.106	0.04	0.06	0.77	92.77
	200	0.075	0.01	0.07	0.76	91.57
	dry pan		0.01	0.08	0.75	
	wet pan			0.75	0.00	

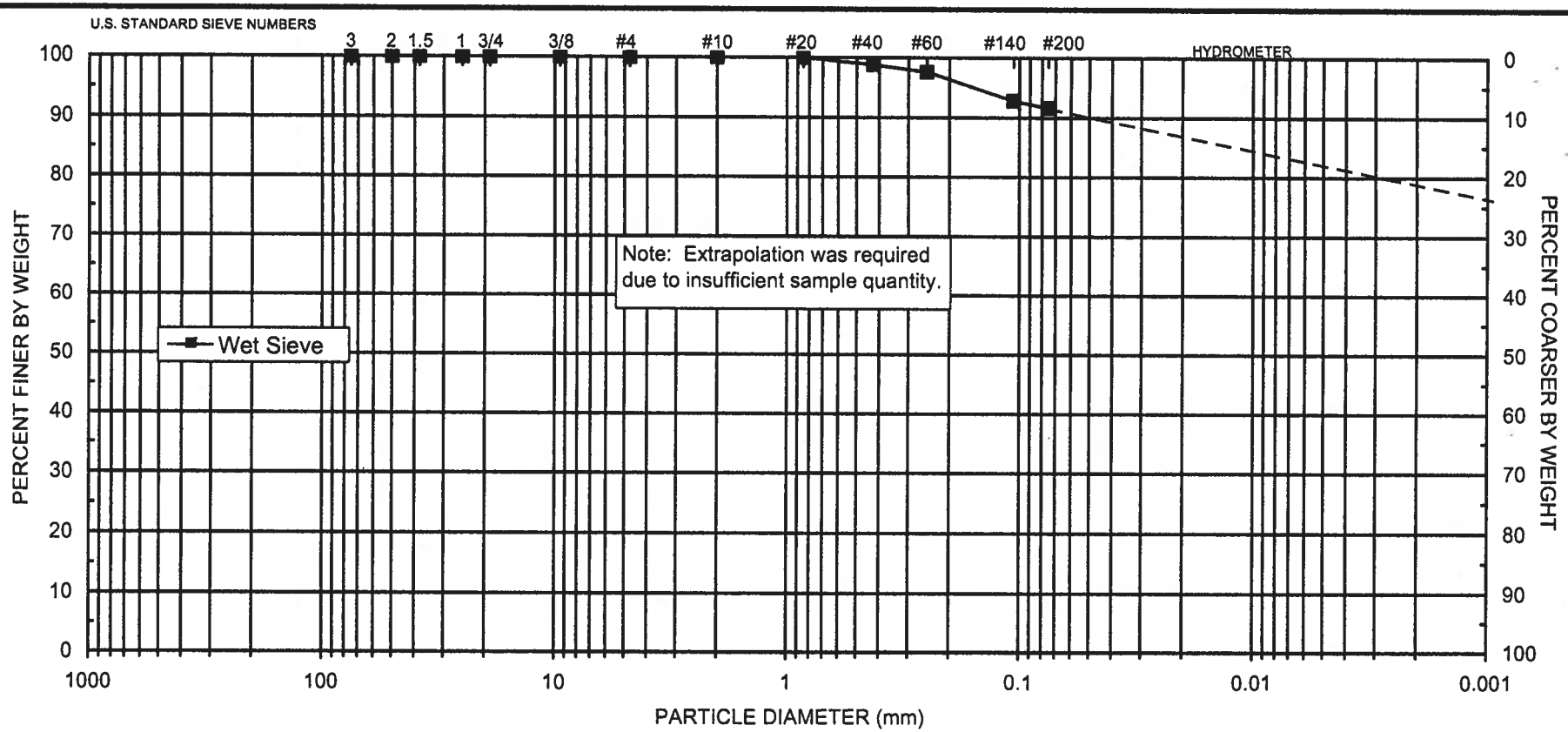
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--[d_{60}/d_{10}] (mm): NA
Coefficient of Curvature, Cc--[$(d_{30})^2/(d_{10}*d_{60})$] (mm): NA
Mean Particle Diameter--[$(d_{16}+d_{50}+d_{84})/3$] (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY	
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12951	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Particle Size Analysis
Wet Sieve Data (#10 Split)

Job Name: LANL
Job Number: LB09.0243.00
Sample Number: CAWR-09-12956
Request Number: 09-3308
Depth: NA
Test Date: 2-Oct-09

Initial Dry Weight of Sample (g): 0.76
Weight Passing #10 (g): 0.76
Weight Retained #10 (g): 0.00
Weight of -10 Subsample (g): 0.76
Calculated Weight of Sieve Sample (g): 0.76

Shape: Angular
Hardness: Hard and durable

Test Fraction	Sieve Number	Diameter (mm)	Wt. Retained	Cum Wt. Retained	Wt. Passing	% Passing
+10						
	3"	75	0.00	0.00	0.76	100.00
	2"	50	0.00	0.00	0.76	100.00
	1.5"	38.1	0.00	0.00	0.76	100.00
	1"	25	0.00	0.00	0.76	100.00
	3/4"	19.0	0.00	0.00	0.76	100.00
	3/8"	9.5	0.00	0.00	0.76	100.00
	4	4.75	0.00	0.00	0.76	100.00
	10	2.00	0.00	0.00	0.76	100.00
-10			(Based on calculated sieve wt.)			
	20	0.85	0.00	0.00	0.76	100.00
	40	0.425	0.00	0.00	0.76	100.00
	60	0.250	0.01	0.01	0.75	98.68
	140	0.106	0.03	0.04	0.72	94.74
	200	0.075	0.02	0.06	0.70	92.11
	dry pan		0.01	0.07	0.69	
	wet pan			0.69	0.00	

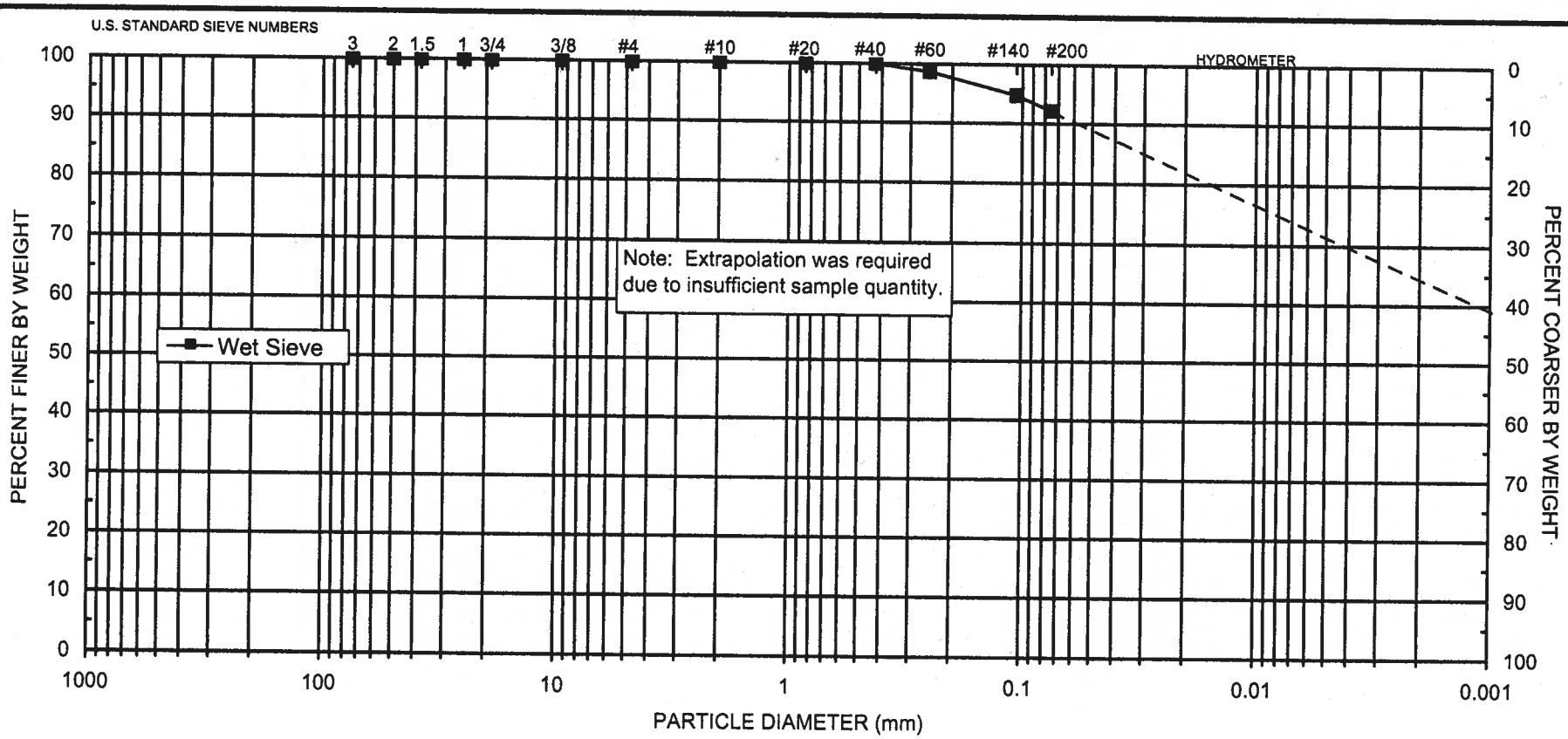
d_{10} (mm): NA
d_{16} (mm): NA
d_{30} (mm): NA
d_{50} (mm): NA
d_{60} (mm): NA
d_{84} (mm): NA

Median Particle Diameter--d_{50} (mm): NA
Uniformity Coefficient, Cu--$[d_{60}/d_{10}]$ (mm): NA
Coefficient of Curvature, Cc--$[(d_{30})^2/(d_{10}*d_{60})]$ (mm): NA
Mean Particle Diameter--$[(d_{16}+d_{50}+d_{84})/3]$ (mm): NA

Note: Extrapolation was required due to insufficient sample quantity.

ASTM Soil Classification: NA - Sample size insufficient for hydrometer analysis
USDA Soil Classification: NA - Sample Size insufficient for hydrometer analysis

Laboratory analysis by: K. Wright
Data entered by: R. Marshall
Checked by: J. Hines



UNIFIED	COBBLES	GRAVEL: Coarse, Fine	SAND: Coarse, Medium, Fine	SILT OR CLAY		
USDA	COBBLES	GRAVEL	SAND: Very coarse, Coarse, Medium, Fine, Very fine	SILT	CLAY	

d_{10} = NA	d_{30} = NA	d_{50} = NA	d_{60} = NA	C_u = NA	C_c = NA

SAMPLE NUMBER	DEPTH	ASTM CLASSIFICATION	USDA CLASSIFICATION
CAWR-09-12956	**NA**	**NA - See note on previous page**	**NA**

Note: Reported values for d_{10}, C_u, C_c, and ASTM classification are estimates, since extrapolation was required to obtain the d_{10} diameter

Daniel B. Stephens & Associates, Inc.

Laboratory Tests and Methods

Tests and Methods

Particle Size Analysis:	ASTM D422

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated d package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxi and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration curve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blan
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requireme
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremen
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations correlation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blan
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was no Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performe
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifie. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'-DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDC
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary w included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_Pv3
PV4	PESTPCB_Pv4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MD
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MD
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for us
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for us
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary was included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for us
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for us
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MD
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncertainty (1-sigma)	Std Mda	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scrn Lvl Type Code
Rio Grande at Otowi Bridge	11/17/09	Am-241	HASL-300:AM-241	F	<	-0.001	pCi/L	0.003	0.04	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Am-241	HASL-300:AM-241	UF	<	0.005	pCi/L	0.004	0.03	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Co-60	EPA:901.1	F	<	-0.916	pCi/L	1.2	3.7	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Co-60	EPA:901.1	UF	<	-2.17	pCi/L	1.2	3.1	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Cs-137	EPA:901.1	F	<	0.64	pCi/L	1.2	3.9	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Cs-137	EPA:901.1	UF	<	0.25	pCi/L	1.3	4.3	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	GROSSA	EPA:900	F	<	1.27	pCi/L	0.8	2.3	U	U	CAWR-10-4974	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	GROSSA	EPA:900	UF	<	4.07	pCi/L	1.5	4.0		U	CAWR-10-4973	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	GROSSB	EPA:900	F		4.4	pCi/L	1.1	2.8			CAWR-10-4974	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	GROSSB	EPA:900	UF		4.3	pCi/L	1	2.5			CAWR-10-4973	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	GROSSG	EPA:901.1	F	<	5.99	pCi/L	3.8	12	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	GROSSG	EPA:901.1	UF	<	15.2	pCi/L	74	63	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	H-3	Low_Level_Tritium	UF		15.74	pCi/L	0.511	0.287			CAWR-10-4973	UMTL	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	K-40	EPA:901.1	F	<	-10.0	pCi/L	19	52	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	K-40	EPA:901.1	UF	<	-17.6	pCi/L	17	55	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Na-22	EPA:901.1	F	<	-1.1	pCi/L	1.2	3.6	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Na-22	EPA:901.1	UF	<	-0.48	pCi/L	1.3	4.0	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Np-237	EPA:901.1	F	<	-0.784	pCi/L	10	34	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Np-237	EPA:901.1	UF	<	2.83	pCi/L	13	45	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Pu-238	HASL-300:ISOPU	F	<	-0.004	pCi/L	0.003	0.027	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Pu-238	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.003	0.034	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Pu-239/240	HASL-300:ISOPU	F	<	0.0000	pCi/L	0.004	0.03	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Pu-239/240	HASL-300:ISOPU	UF	<	0.0069	pCi/L	0.004	0.04	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Ra-226	EPA:903.1	F	<	0.05	pCi/L	0.07	0.26	U	U	CAWR-10-4974	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ra-226	EPA:903.1	UF		0.38	pCi/L	0.11	0.24			CAWR-10-4973	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ra-228	EPA:904	F	<	-0.25	pCi/L	0.26	0.95	U	U	CAWR-10-4974	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ra-228	EPA:904	UF	<	0.77	pCi/L	0.32	0.96	U	U	CAWR-10-4973	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Sr-90	EPA:905.0	F	<	-0.029	pCi/L	0.10	0.43	U	U	CAWR-10-4974	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Sr-90	EPA:905.0	UF	<	-0.010	pCi/L	0.13	0.44	U	U	CAWR-10-4973	GELC	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	U-234	HASL-300:ISOU	F		1.43	pCi/L	0.12	0.079			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	U-234	HASL-300:ISOU	UF		1.39	pCi/L	0.12	0.080			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	U-235/236	HASL-300:ISOU	F		0.047	pCi/L	0.013	0.041			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	U-235/236	HASL-300:ISOU	UF	<	0.027	pCi/L	0.011	0.042	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	U-238	HASL-300:ISOU	F		0.89	pCi/L	0.078	0.049			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	U-238	HASL-300:ISOU	UF		0.88	pCi/L	0.079	0.050			CAWR-10-4973	GELC		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	R	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	R	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	UJ	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	FTB	CAWR-10-4975	GELC
Rio Grande at Otowi Bridge	11/17/09	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	FTB	CAWR-10-4975	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld QC Type Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.16	ug/L	0.36	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	62-53-3	Aniline	SW-846:8270C	UF	<	11.6	ug/L	2.9	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	120-12-7	Anthracene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	1912-24-9	Atrazine	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	R		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	103-33-3	Azobenzene	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	92-87-5	Benzidine	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	23.3	ug/L	7	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF		2.78	ug/L	2.3	J	J		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.16	ug/L	0.35	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	218-01-9	Chrysene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	23.3	ug/L	5.8	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Fld QC Type Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	88-85-7	Dinoseb	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	122-39-4	Diphenylamine	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	86-73-7	Fluorene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	UJ		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	78-59-1	Isophorone	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.16	ug/L	0.35	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.16	ug/L	0.35	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.16	ug/L	0.35	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.16	ug/L	0.23	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	108-95-2	Phenol	SW-846:8270C	UF	<	11.6	ug/L	1.2	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	129-00-0	Pyrene	SW-846:8270C	UF	<	1.16	ug/L	0.35	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	110-86-1	Pyridine	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	11.6	ug/L	3.5	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	11.6	ug/L	2.3	U	U		CAWR-10-4973	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code
Rio Grande at Otowi Bridge	11/17/09	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.020	ug/L	0.01	U	UJ	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	UJ	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.040	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.22	ug/L	0.05	U	U	CAWR-10-4973	GELC
Rio Grande at Otowi Bridge	11/17/09	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.54	ug/L	0.16	U	U	CAWR-10-4973	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	11/17/09	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC
Rio Grande at Otowi Bridge	11/17/09	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.040	U	U	CAWR-10-4974		GELC
Rio Grande at Otowi Bridge	11/17/09	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.11	ug/L	0.040	U	U	CAWR-10-4973		GELC

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld QC Type Code	Lab Code
Rio Grande at Otowi Bridge	11/17/09	1336-36-3	Total PCB	EPA:1668A	F		0.0000449	ug/L	[1]NA			CAWR-10-4974		ALTC
Rio Grande at Otowi Bridge	11/17/09	1336-36-3	Total PCB	EPA:1668A	UF		0.0000998	ug/L	[1]NA			CAWR-10-4973		ALTC
Rio Grande at Otowi Bridge	11/17/09	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	[1]NA	U	U	CAWR-10-4977	FB	ALTC

Notes:
[1]NA means that no MDL is available because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	11/17/09	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	ALK-CO3+HCO3	EPA:310.1	UF		115	mg/L	0.73			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	CN(TOTAL)	EPA:335.4	UF	<	0.01	mg/L	0.00	U	U	CAWR-10-4973	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ca	SW-846:6010B	F		38.5	mg/L	0.05			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Ca	SW-846:6010B	UF		39.8	mg/L	0.05			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Cl(-1)	EPA:300.0	UF		6.27	mg/L	0.07			CAWR-10-4973	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	ClO4	SW-846:6850	UF		0.07	ug/L	0.05	J	J	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	DO	Generic Field Measurement	UF		12.6	mg/L				CAWR-10-4973	FLD		
Rio Grande at Otowi Bridge	11/17/09	F(-1)	EPA:300.0	UF		0.35	mg/L	0.03			CAWR-10-4973	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	HARDNESS	SM:A2340B	F		125	mg/L	0.35			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	HARDNESS	SM:A2340B	UF		131	mg/L	0.35			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	K	SW-846:6010B	F		2.5	mg/L	0.05			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	K	SW-846:6010B	UF		2.8	mg/L	0.05			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Mg	SW-846:6010B	F		7.2	mg/L	0.09			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Mg	SW-846:6010B	UF		7.6	mg/L	0.09			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	NH3-N	EPA:350.1	UF	<	0.02	mg/L	0.02	J	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	NO3+NO2-N	EPA:353.2	UF		0.08	mg/L	0.05	J	J	CAWR-10-4973	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Na	SW-846:6010B	F		19.4	mg/L	0.10			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Na	SW-846:6010B	UF		20.6	mg/L	0.10			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	PO4-P	EPA:365.4	UF		0.07	mg/L	0.02			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	SO4(-2)	EPA:300.0	UF		38.7	mg/L	0.20			CAWR-10-4973	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	SPEC_CONDC	ENERIC FIELD CONDUCTIVI	UF		315	uS/cm				CAWR-10-4973	FLD		
Rio Grande at Otowi Bridge	11/17/09	SPEC_CONDC	EPA:120.1	UF		336	uS/cm	1			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	SSC	EPA:160.2	UF		23	mg/L	1.1			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	TDS	EPA:160.1	UF		218	mg/L	2.4			CAWR-10-4973	GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	TEMP	GENERIC FIELD TEMP	UF		3.82	deg C				CAWR-10-4973	FLD		
Rio Grande at Otowi Bridge	11/17/09	TKN	EPA:351.2	UF		0.2	mg/L	0.03		J-	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	TOC	SW-846:9060	UF		2.88	mg/L	0.33			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	TURB	GENERIC FIELD TURB	UF		22	NTU				CAWR-10-4973	FLD		
Rio Grande at Otowi Bridge	11/17/09	pH	EPA:150.1	UF		8.2	SU	0.01	H	J-	CAWR-10-4973	GELC	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	pH	GENERIC FIELD PH	UF		7.59	SU				CAWR-10-4973	FLD	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	11/17/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-4974	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-4973	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	CAWR-10-4974	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Al	SW-846:6010B	UF		1050	ug/L	68			CAWR-10-4973	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	As	SW-846:6020	F		1.68	ug/L	1.5			CAWR-10-4974	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	As	SW-846:6020	UF	<	5	ug/L	1.5	U	U	CAWR-10-4973	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	B	SW-846:6010B	F		37.3	ug/L	15			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	B	SW-846:6010B	UF		35.0	ug/L	15			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Ba	SW-846:6010B	F		58.3	ug/L	1			CAWR-10-4974	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Ba	SW-846:6010B	UF		64.1	ug/L	1			CAWR-10-4973	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-4974	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-4973	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-4974	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-4973	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-4974	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Cr	SW-846:6020	UF	<	10	ug/L	2.5	U	U	CAWR-10-4973	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-4974	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-4973	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	CAWR-10-4974	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Fe	SW-846:6010B	UF		726	ug/L	30			CAWR-10-4973	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-4974	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-4973	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Mn	SW-846:6010B	F		12.1	ug/L	2			CAWR-10-4974	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Mn	SW-846:6010B	UF		41.9	ug/L	2			CAWR-10-4973	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Mo	SW-846:6020	F		5.58	ug/L	0.1			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Mo	SW-846:6020	UF		5.88	ug/L	0.1			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Ni	SW-846:6020	F		1.3	ug/L	0.5			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Ni	SW-846:6020	UF		2.1	ug/L	0.5			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-4974	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Pb	SW-846:6020	UF		0.72	ug/L	0.5			CAWR-10-4973	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-4974	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-4973	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-4974	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-4973	GELC	50	EPA PRIM DW LVL
Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	11/17/09	SiO2	SW-846:6010B	UF		25	mg/L	0.05			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Sr	SW-846:6010B	F		284	ug/L	1			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	Sr	SW-846:6010B	UF		296	ug/L	1			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Tl	SW-846:6020	F	<	0.5	ug/L	0.3		U	CAWR-10-4974	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	Tl	SW-846:6020	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-4973	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	U	SW-846:6020	F		2.8	ug/L	0.05			CAWR-10-4974	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	U	SW-846:6020	UF		3.1	ug/L	0.05			CAWR-10-4973	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	11/17/09	V	SW-846:6010B	F		2.7	ug/L	1			CAWR-10-4974	GELC		
Rio Grande at Otowi Bridge	11/17/09	V	SW-846:6010B	UF		4.6	ug/L	1			CAWR-10-4973	GELC		
Rio Grande at Otowi Bridge	11/17/09	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-4974	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	11/17/09	Zn	SW-846:6010B	UF		5.22	ug/L	3.3			CAWR-10-4973	GELC	5000	EPA SEC DW LVL

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
C816	The instrument performance sample did not pass method acceptance criteri
C84	The sample result is =<5 times the concentration of the related analyte in the method bla
C84a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
C84d	The sample result is =<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for us
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated d package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confimed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremer
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for water and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered is
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is =<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is =< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is =<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bla
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standard
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PC
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performec
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration range
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualifiy the analyte as not detected and/or any other standard qualifier. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evalua
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P13c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P13d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MD
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary w included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument perfomance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuvre and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'–DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary v included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptable for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceedi
PC	PESTPCB_PC
PEQL	P_EQLMDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_UJ_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occuring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the ME
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the ME
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceedi
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary v included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1x	VOC_V1x
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60

Table 1.0
Rio Grande at Otowi Bridge
Radionuclides

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Uncert	Std Mda	Lab Qual Code	Concat Flag Code	Sample Id	Lab Code	Fld Qc Type Code	Scrn Lvl	Scrn Lvl Type Code
Rio Grande at Otowi Bridge	1/26/10	Am-241	HASL-300:AM-241	F	<	-0.009	pCi/L	0.009	0.030	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Am-241	HASL-300:AM-241	UF	<	0.001	pCi/L	0.003	0.031	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Co-60	EPA:901.1	F	<	0.94	pCi/L	1.1	4.1	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Co-60	EPA:901.1	UF	<	1.1	pCi/L	1.2	4.0	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Cs-137	EPA:901.1	F	<	0.12	pCi/L	1.3	4.4	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Cs-137	EPA:901.1	UF	<	-0.04	pCi/L	1.2	3.7	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	GROSSA	EPA:900	F	<	3.30	pCi/L	1.1	2.2		U	CAWR-10-11783	GELC		15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSA	EPA:900	UF	<	2.28	pCi/L	0.9	2.1		U	CAWR-10-11786	GELC		15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSB	EPA:900	F		2.4	pCi/L	0.8	2.1			CAWR-10-11783	GELC		50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSB	EPA:900	UF		4.1	pCi/L	1.0	2.6			CAWR-10-11786	GELC		50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSG	EPA:901.1	F	<	19.5	pCi/L	15	36	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	GROSSG	EPA:901.1	UF	<	30.6	pCi/L	62	65	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	H-3	Low_Level_Tritium	UF		15.74	pCi/L	0.51	0.29			CAWR-10-11786	UMTL		20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	K-40	EPA:901.1	F	<	-6.7	pCi/L	15	52	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	K-40	EPA:901.1	UF	<	65	pCi/L	16	61	UI	R	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Na-22	EPA:901.1	F	<	0.795	pCi/L	1.3	4.4	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Na-22	EPA:901.1	UF	<	-0.923	pCi/L	1.1	3.2	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Np-237	EPA:901.1	F	<	0.038	pCi/L	8.9	29	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Np-237	EPA:901.1	UF	<	3.79	pCi/L	10.0	35	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Pu-238	HASL-300:ISOPU	F	<	0.006	pCi/L	0.003	0.032	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Pu-238	HASL-300:ISOPU	UF	<	0.003	pCi/L	0.011	0.042	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Pu-239/240	HASL-300:ISOPU	F	<	0.006	pCi/L	0.003	0.022	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.005	pCi/L	0.007	0.029	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	Ra-226	EPA:903.1	F	<	0.538	pCi/L	0.19	0.37		U	CAWR-10-11783	GELC		5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-226	EPA:903.1	UF	<	0.095	pCi/L	0.09	0.30	U	U	CAWR-10-11786	GELC		5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-228	EPA:904	F	<	0.524	pCi/L	0.27	0.82	U	U	CAWR-10-11783	GELC		5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-228	EPA:904	UF	<	0.553	pCi/L	0.24	0.70	U	U	CAWR-10-11786	GELC		5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Sr-90	EPA:905.0	F	<	0.109	pCi/L	0.13	0.46	U	U	CAWR-10-11783	GELC		8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Sr-90	EPA:905.0	UF	<	-0.026	pCi/L	0.12	0.46	U	U	CAWR-10-11786	GELC		8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	U-234	HASL-300:ISOU	F		1.38	pCi/L	0.15	0.18			CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	U-234	HASL-300:ISOU	UF		1.54	pCi/L	0.16	0.17			CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	U-235/236	HASL-300:ISOU	F	<	0.018	pCi/L	0.013	0.11	U	U	CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	U-235/236	HASL-300:ISOU	UF	<	0.050	pCi/L	0.021	0.10	U	U	CAWR-10-11786	GELC			
Rio Grande at Otowi Bridge	1/26/10	U-238	HASL-300:ISOU	F		0.83	pCi/L	0.10	0.12			CAWR-10-11783	GELC			
Rio Grande at Otowi Bridge	1/26/10	U-238	HASL-300:ISOU	UF		0.80	pCi/L	0.10	0.11			CAWR-10-11786	GELC			
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Uncert**	**Std Mda**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Lab Code**	**Fld Qc Type Code**	**Scrn Lvl**	**Scrn Lvl Type Code**
Rio Grande at Otowi Bridge	1/26/10	Am-241	HASL-300:AM-241	F	<	-0.0029	pCi/L	0.002	0.032	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Am-241	HASL-300:AM-241	UF	<	-0.0047	pCi/L	0.003	0.029	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Co-60	EPA:901.1	F	<	-1.85	pCi/L	1.2	3.0	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Co-60	EPA:901.1	UF	<	-0.499	pCi/L	1.3	4.3	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Cs-137	EPA:901.1	F	<	2.36	pCi/L	1.1	4.2	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Cs-137	EPA:901.1	UF	<	0.332	pCi/L	1.3	4.5	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	GROSSA	EPA:900	F	<	2.08	pCi/L	0.76	1.7		U	CAWR-10-11872	GELC	FD	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSA	EPA:900	UF	<	2.94	pCi/L	1.1	2.2		U	CAWR-10-11781	GELC	FD	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSB	EPA:900	F	<	1.54	pCi/L	0.71	2.1	U	U	CAWR-10-11872	GELC	FD	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSB	EPA:900	UF		3.58	pCi/L	0.91	2.2			CAWR-10-11781	GELC	FD	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	1/26/10	GROSSG	EPA:901.1	F	<	17.8	pCi/L	9.3	22	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	GROSSG	EPA:901.1	UF	<	15.9	pCi/L	16	42	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	H-3	Low_Level_Tritium	UF		17.53	pCi/L	0.58	0.29			CAWR-10-11781	UMTL	FD	20,000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	K-40	EPA:901.1	F	<	-13.3	pCi/L	16	49	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	K-40	EPA:901.1	UF	<	3.81	pCi/L	19	33	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Na-22	EPA:901.1	F	<	-0.795	pCi/L	1.2	3.5	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Na-22	EPA:901.1	UF	<	-0.592	pCi/L	1.2	3.9	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Np-237	EPA:901.1	F	<	-1.78	pCi/L	11	35	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Np-237	EPA:901.1	UF	<	-1.63	pCi/L	12	37	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Pu-238	HASL-300:ISOPU	F	<	-0.012	pCi/L	0.013	0.04	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Pu-238	HASL-300:ISOPU	UF	<	-0.005	pCi/L	0.008	0.038	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Pu-239/240	HASL-300:ISOPU	F	<	0.005	pCi/L	0.006	0.027	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Pu-239/240	HASL-300:ISOPU	UF	<	0.009	pCi/L	0.008	0.026	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	Ra-226	EPA:903.1	F	<	0.434	pCi/L	0.18	0.52	U	U	CAWR-10-11872	GELC	FD	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-226	EPA:903.1	UF	<	0.033	pCi/L	0.10	0.41	U	U	CAWR-10-11781	GELC	FD	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-228	EPA:904	F	<	0.007	pCi/L	0.17	0.66	U	U	CAWR-10-11872	GELC	FD	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Ra-228	EPA:904	UF	<	0.279	pCi/L	0.23	0.8	U	U	CAWR-10-11781	GELC	FD	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Sr-90	EPA:905.0	F	<	-0.303	pCi/L	0.10	0.45	U	U	CAWR-10-11872	GELC	FD	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	Sr-90	EPA:905.0	UF	<	0.324	pCi/L	0.15	0.46	U	U	CAWR-10-11781	GELC	FD	8	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	1/26/10	U-234	HASL-300:ISOU	F		1.42	pCi/L	0.14	0.12			CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	U-234	HASL-300:ISOU	UF		1.48	pCi/L	0.15	0.13			CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	U-235/236	HASL-300:ISOU	F	<	0.036	pCi/L	0.015	0.070	U	U	CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	U-235/236	HASL-300:ISOU	UF	<	0.040	pCi/L	0.017	0.077	U	U	CAWR-10-11781	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	U-238	HASL-300:ISOU	F		0.80	pCi/L	0.088	0.078			CAWR-10-11872	GELC	FD		
Rio Grande at Otowi Bridge	1/26/10	U-238	HASL-300:ISOU	UF		0.90	pCi/L	0.099	0.086			CAWR-10-11781	GELC	FD		

Table 2.0
Rio Grande at Otowi Bridge
Volatile Organic Compounds (VOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11782	FTB	GELC
Rio Grande at Otowi Bridge	1/26/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-11782	FTB	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	67-64-1	Acetone	SW-846:8260B	UF	<	10.0	ug/L	3.5	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-05-8	Acetonitrile	SW-846:8260B	UF	<	25.0	ug/L	6.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	107-02-8	Acrolein	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	107-13-1	Acrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	71-43-2	Benzene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-86-1	Bromobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	74-97-5	Bromochloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-27-4	Bromodichloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-25-2	Bromoform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	74-83-9	Bromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	71-36-3	Butanol[1-]	SW-846:8260B	UF	<	50.0	ug/L	15	U	R	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	78-93-3	Butanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-15-0	Carbon Disulfide	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-90-7	Chlorobenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-00-3	Chloroethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	67-66-3	Chloroform	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	74-87-3	Chloromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	74-95-3	Dibromomethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	60-29-7	Diethyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	100-41-4	Ethylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	591-78-6	Hexanone[2-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	74-88-4	Iodomethane	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	<	50.0	ug/L	13	U	R	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	98-82-8	Isopropylbenzene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample ID	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	126-98-7	Methacrylonitrile	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	<	5.0	ug/L	1.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-09-2	Methylene Chloride	SW-846:8260B	UF	<	10.0	ug/L	3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	91-20-3	Naphthalene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	107-12-0	Propionitrile	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	100-42-5	Styrene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	127-18-4	Tetrachloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-88-3	Toluene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	<	1.0	ug/L	0.33	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	79-01-6	Trichloroethene	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	<	1.0	ug/L	0.25	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	75-01-4	Vinyl Chloride	SW-846:8260B	UF	<	1.0	ug/L	0.5	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-05-4	Vinyl acetate	SW-846:8260B	UF	<	5.0	ug/L	1.5	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	<	1.0	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	<	2.0	ug/L	0.5	U	U	CAWR-10-11781	FD	GELC

Table 3.0
Rio Grande at Otowi Bridge
Semivolatile Organic Compounds (SVOCs)

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.25	ug/L	0.39	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	62-53-3	Aniline	SW-846:8270C	UF	<	12.5	ug/L	3.1	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	1912-24-9	Atrazine	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	R	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	92-87-5	Benzidine	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	25	ug/L	7.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.25	ug/L	0.38	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.3	ug/L	0.25	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	25	ug/L	6.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	78-59-1	Isophorone	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	UJ	CAWR-10-11786		GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sanple Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.25	ug/L	0.38	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.25	ug/L	0.38	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.25	ug/L	0.38	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.25	ug/L	0.25	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	108-95-2	Phenol	SW-846:8270C	UF	<	12.5	ug/L	1.3	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1.25	ug/L	0.38	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	110-86-1	Pyridine	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	UJ	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	12.5	ug/L	3.8	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	12.5	ug/L	2.5	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	83-32-9	Acenaphthene	SW-846:8270C	UF	<	1.05	ug/L	0.33	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	208-96-8	Acenaphthylene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	62-53-3	Aniline	SW-846:8270C	UF	<	10.5	ug/L	2.6	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	120-12-7	Anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	1912-24-9	Atrazine	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	R	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	103-33-3	Azobenzene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	92-87-5	Benzidine	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	65-85-0	Benzoic Acid	SW-846:8270C	UF	<	20.9	ug/L	6.3	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	<	1.05	ug/L	0.31	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	218-01-9	Chrysene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sanple Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	132-64-9	Dibenzofuran	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	84-66-2	Diethylphthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	<	20.9	ug/L	5.2	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	88-85-7	Dinoseb	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	122-39-4	Diphenylamine	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	206-44-0	Fluoranthene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	86-73-7	Fluorene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	67-72-1	Hexachloroethane	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	78-59-1	Isophorone	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	<	1.05	ug/L	0.31	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	<	1.05	ug/L	0.31	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	91-20-3	Naphthalene	SW-846:8270C	UF	<	1.05	ug/L	0.31	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	98-95-3	Nitrobenzene	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	87-86-5	Pentachlorophenol	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	85-01-8	Phenanthrene	SW-846:8270C	UF	<	1.05	ug/L	0.21	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	108-95-2	Phenol	SW-846:8270C	UF	<	10.5	ug/L	1.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	129-00-0	Pyrene	SW-846:8270C	UF	<	1.05	ug/L	0.31	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	110-86-1	Pyridine	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	UJ	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	<	10.5	ug/L	3.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	<	10.5	ug/L	2.1	U	U	CAWR-10-11781	FD	GELC

Table 4.0
Rio Grande at Otowi Bridge
Pesticides

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.21	ug/L	0.05	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.52	ug/L	0.16	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	309-00-2	Aldrin	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	319-84-6	BHC[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	319-85-7	BHC[beta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	319-86-8	BHC[delta-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	58-89-9	BHC[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	60-57-1	Dieldrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	959-98-8	Endosulfan I	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	33213-65-9	Endosulfan II	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	72-20-8	Endrin	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	53494-70-5	Endrin Ketone	SW-846:8081A	UF	<	0.04	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	76-44-8	Heptachlor	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	<	0.02	ug/L	0.01	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	<	0.20	ug/L	0.05	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	<	0.51	ug/L	0.15	U	U	CAWR-10-11781	FD	GELC

Table 5.0
Rio Grande at Otowi Bridge
PCBs
SW-846:8082 (Aroclor) and EPA:1668A (Congener) Analytical Methods

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code
Rio Grande at Otowi Bridge	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11783		GELC
Rio Grande at Otowi Bridge	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.12	ug/L	0.04	U	U	CAWR-10-11786		GELC
Rio Grande at Otowi Bridge	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	F	<	0.11	ug/L	0.04	U	U	CAWR-10-11872	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	12674-11-2	Aroclor-1016	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11104-28-2	Aroclor-1221	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11141-16-5	Aroclor-1232	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	53469-21-9	Aroclor-1242	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	12672-29-6	Aroclor-1248	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11097-69-1	Aroclor-1254	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	11096-82-5	Aroclor-1260	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Rio Grande at Otowi Bridge	1/26/10	37324-23-5	Aroclor-1262	SW-846:8082	UF	<	0.10	ug/L	0.04	U	U	CAWR-10-11781	FD	GELC
Location Name	**Start Date**	**Analyte**	**Analyte Desc**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**
Rio Grande at Otowi Bridge	1/26/10	1336-36-3	Total PCB	EPA:1668A	F		0.0000325	ug/L	NA			CAWR-10-11783		ALTC
Rio Grande at Otowi Bridge	1/26/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	NA	U	U	CAWR-10-11786		ALTC
Rio Grande at Otowi Bridge	1/26/10	1336-36-3	Total PCB	EPA:1668A	F		0.0000044	ug/L	NA			CAWR-10-11872	FD	ALTC
Rio Grande at Otowi Bridge	1/26/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	NA	U	U	CAWR-10-11781	FD	ALTC
Rio Grande at Otowi Bridge	1/26/10	1336-36-3	Total PCB	EPA:1668A	UF	<	0.0000000	ug/L	NA	U	U	CAWR-10-11784	FB	ALTC

Notes:

[1]NA means that no MDL is available for Total PCB measurements because the result is a summation of individual congener values.

Table 6.0
Rio Grande at Otowi Bridge
General Inorganics

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	01/26/10	ALK-CO3	EPA:310.1	UF	<	1.0	mg/L	0.73	U	U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	ALK-CO3+HCO3	EPA:310.1	UF		95.4	mg/L	0.73			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Br(-1)	EPA:300.0	UF	<	0.20	mg/L	0.07	U	U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	CN(TOTAL)	EPA:335.4	UF	<	0.003	mg/L	0.00	J	U	CAWR-10-11786		GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ca	SW-846:6010B	UF		38.4	mg/L	0.05			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Ca	SW-846:6010B	F		34.0	mg/L	0.05			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Cl(-1)	EPA:300.0	UF		6.14	mg/L	0.07			CAWR-10-11786		GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	ClO4	SW-846:6850	UF		0.083	ug/L	0.05	J	J	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	DO	Field Measurement	UF		13.1	mg/L				CAWR-10-11786		FLD		
Rio Grande at Otowi Bridge	01/26/10	F(-1)	EPA:300.0	UF		0.39	mg/L	0.03			CAWR-10-11786		GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	HARDNESS	SM:A2340B	F		111	mg/L	0.35			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	HARDNESS	SM:A2340B	UF		126	mg/L	0.35			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	K	SW-846:6010B	UF		3.0	mg/L	0.05			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	K	SW-846:6010B	F		2.6	mg/L	0.05			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Mg	SW-846:6010B	F		6.4	mg/L	0.09			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Mg	SW-846:6010B	UF		7.3	mg/L	0.09			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	NH3-N	EPA:350.1	UF	<	0.04	mg/L	0.02	J	U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	NO3+NO2-N	EPA:353.2	UF		0.22	mg/L	0.05	J	J+	CAWR-10-11786		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Na	SW-846:6010B	UF		20.5	mg/L	0.10			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Na	SW-846:6010B	F		18.9	mg/L	0.10			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	PO4-P	EPA:365.4	UF	<	0.08	mg/L	0.02		U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	SO4(-2)	EPA:300.0	UF		36.4	mg/L	0.10		J+	CAWR-10-11786		GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	SPEC_CONDC	FIELD CONDUCTIVITY	UF		289	uS/cm				CAWR-10-11786		FLD		
Rio Grande at Otowi Bridge	01/26/10	SPEC_CONDC	EPA:120.1	UF		292	uS/cm	1			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	SSC	EPA:160.2	UF		33.1	mg/L	1.6			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	TDS	EPA:160.1	UF		204	mg/L	2.4			CAWR-10-11786		GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	TEMP	GENERIC FIELD TEMP	UF		1.0	deg C				CAWR-10-11786		FLD		
Rio Grande at Otowi Bridge	01/26/10	TKN	EPA:351.2	UF		0.09	mg/L	0.03	J	J-	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	TOC	SW-846:9060	UF		2.5	mg/L	0.33			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	TURB	GENERIC FIELD TURB	UF		9.61	NTU				CAWR-10-11786		FLD		
Rio Grande at Otowi Bridge	01/26/10	pH	GENERIC FIELD PH	UF		7.33	SU				CAWR-10-11786		FLD	6.5-8.5	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	pH	EPA:150.1	UF		8.12	SU	0.01	H	J-	CAWR-10-11786		GELC	6.5-8.5	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	01/26/10	ALK-CO3	EPA:310.1	UF	<	1	mg/L	0.73	U	U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	ALK-CO3+HCO3	EPA:310.1	UF		97.9	mg/L	0.73			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Br(-1)	EPA:300.0	UF	<	0.2	mg/L	0.07	U	U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	CN(TOTAL)	EPA:335.4	UF	<	0.003	mg/L	0.00	J	U	CAWR-10-11781	FD	GELC	0.2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ca	SW-846:6010B	F		35.1	mg/L	0.05			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Ca	SW-846:6010B	UF		38.5	mg/L	0.05			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Cl(-1)	EPA:300.0	UF		6.18	mg/L	0.07			CAWR-10-11781	FD	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	ClO4	SW-846:6850	UF		0.081	ug/L	0.05	J	J	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	F(-1)	EPA:300.0	UF		0.39	mg/L	0.03			CAWR-10-11781	FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	HARDNESS	SM:A2340B	F		115	mg/L	0.35			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	HARDNESS	SM:A2340B	UF		126	mg/L	0.35			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	K	SW-846:6010B	F		2.66	mg/L	0.05			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	K	SW-846:6010B	UF		2.93	mg/L	0.05			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Mg	SW-846:6010B	UF		7.19	mg/L	0.09			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Mg	SW-846:6010B	F		6.74	mg/L	0.09			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	NH3-N	EPA:350.1	UF	<	0.03	mg/L	0.02	J	U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	NO3+NO2-N	EPA:353.2	UF		0.23	mg/L	0.05	J	J+	CAWR-10-11781	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Na	SW-846:6010B	UF		20.8	mg/L	0.10			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Na	SW-846:6010B	F		19.7	mg/L	0.10			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	PO4-P	EPA:365.4	UF	<	0.1	mg/L	0.02		U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	SO4(-2)	EPA:300.0	UF		36.4	mg/L	0.10		J+	CAWR-10-11781	FD	GELC	250	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	SPEC_CONDC	EPA:120.1	UF		290	uS/cm	1.0			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	SSC	EPA:160.2	UF		26.1	mg/L	0.65			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	TDS	EPA:160.1	UF		200	mg/L	2.4			CAWR-10-11781	FD	GELC	500	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	TKN	EPA:351.2	UF		0.11	mg/L	0.03		J-	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	TOC	SW-846:9060	UF		2.27	mg/L	0.33			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	pH	EPA:150.1	UF		8.14	SU	0.01	H	J-	CAWR-10-11781	FD	GELC	6.5-8.5	EPA SEC DW LVL

Table 7.0
Rio Grande at Otowi Bridge
Metals

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code		Std Result	Units	Std Mdl	Lab Qual Code	Concat Flag Code	Sample Id	Fld Qc Type Code	Lab Code	Scr Lvl	Scr Lvl Type Code
Rio Grande at Otowi Bridge	01/26/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-11783		GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-11786		GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	CAWR-10-11783		GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Al	SW-846:6010B	UF		868	ug/L	68			CAWR-10-11786		GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	As	SW-846:6020	F		3.39	ug/L	1.5	J	J	CAWR-10-11783		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	As	SW-846:6020	UF		2.95	ug/L	1.5	J	J	CAWR-10-11786		GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	B	SW-846:6010B	F		23.8	ug/L	15	J	J	CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	B	SW-846:6010B	UF		29.1	ug/L	15	J	J	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Ba	SW-846:6010B	F		43	ug/L	1			CAWR-10-11783		GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ba	SW-846:6010B	UF		57	ug/L	1			CAWR-10-11786		GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-11783		GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Be	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-11786		GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-11783		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-11786		GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Co	SW-846:6010B	F	<	5.0	ug/L	1	U	U	CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Co	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-11783		GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cr	SW-846:6020	UF	<	2.9	ug/L	2.5	J	U	CAWR-10-11786		GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-11783		GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-11786		GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	CAWR-10-11783		GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Fe	SW-846:6010B	UF		638	ug/L	30			CAWR-10-11786		GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-11783		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-11786		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mn	SW-846:6010B	F		13.1	ug/L	2			CAWR-10-11783		GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mn	SW-846:6010B	UF		45.9	ug/L	2			CAWR-10-11786		GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mo	SW-846:6020	F		5.62	ug/L	0.1			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Mo	SW-846:6020	UF		5.6	ug/L	0.1			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Ni	SW-846:6020	F		1.3	ug/L	0.5	J	J	CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Ni	SW-846:6020	UF		1.7	ug/L	0.5	J	J	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-11783		GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Pb	SW-846:6020	UF		0.76	ug/L	0.5	J	J	CAWR-10-11786		GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-11783		GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-11786		GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-11783		GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-		GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	SiO2	SW-846:6010B	UF		31.2	mg/L	0.05			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Sr	SW-846:6010B	F		250	ug/L	1.0			CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	Sr	SW-846:6010B	UF		281	ug/L	1.0			CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Tl	SW-846:6020	F	<	1	ug/L	0.30	U	U	CAWR-10-11783		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Tl	SW-846:6020	UF	<	1	ug/L	0.30	U	U	CAWR-10-11786		GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	U	SW-846:6020	F		3.63	ug/L	0.05			CAWR-10-11783		GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	U	SW-846:6020	UF		3.49	ug/L	0.05			CAWR-10-11786		GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	V	SW-846:6010B	F		3.26	ug/L	1.0	J	J	CAWR-10-11783		GELC		
Rio Grande at Otowi Bridge	01/26/10	V	SW-846:6010B	UF		4.6	ug/L	1.0	J	J	CAWR-10-11786		GELC		
Rio Grande at Otowi Bridge	01/26/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-11783		GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Zn	SW-846:6010B	UF		5.62	ug/L	3.3	J	J	CAWR-10-11786		GELC	5000	EPA SEC DW LVL
Location Name	**Start Date**	**Analyte**	**Anyl Meth Code**	**Fld Prep Code**		**Std Result**	**Units**	**Std Mdl**	**Lab Qual Code**	**Concat Flag Code**	**Sample Id**	**Fld Qc Type Code**	**Lab Code**	**Scr Lvl**	**Scr Lvl Type Code**
Rio Grande at Otowi Bridge	01/26/10	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	CAWR-10-	FD	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ag	SW-846:6020	UF	<	1	ug/L	0.2	U	U	CAWR-10-	FD	GELC	100	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Al	SW-846:6010B	F	<	200	ug/L	68	U	U	CAWR-10-11872	FD	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Al	SW-846:6010B	UF		325	ug/L	68			CAWR-10-11781	FD	GELC	200	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	As	SW-846:6020	F		3.7	ug/L	1.5	J	J	CAWR-10-11872	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	As	SW-846:6020	UF		3.7	ug/L	1.5	J	J	CAWR-10-11781	FD	GELC	10	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	B	SW-846:6010B	F		34.2	ug/L	15	J	J	CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	B	SW-846:6010B	UF		26.0	ug/L	15	J	J	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Ba	SW-846:6010B	F		45.8	ug/L	1			CAWR-10-11872	FD	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Ba	SW-846:6010B	UF		53.6	ug/L	1			CAWR-10-11781	FD	GELC	2000	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Be	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-11872	FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Be	SW-846:6010B	UF	<	5.0	ug/L	1	U	U	CAWR-10-11781	FD	GELC	4	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	CAWR-10-11872	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cd	SW-846:6020	UF	<	1	ug/L	0.11	U	U	CAWR-10-11781	FD	GELC	5	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Co	SW-846:6010B	UF	<	5	ug/L	1	U	U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	CAWR-10-11872	FD	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cr	SW-846:6020	UF	<	10	ug/L	2.5	U	U	CAWR-10-11781	FD	GELC	100	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	CAWR-10-11872	FD	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Cu	SW-846:6010B	UF	<	10	ug/L	3	U	U	CAWR-10-11781	FD	GELC	1300	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Fe	SW-846:6010B	F	<	100	ug/L	30	U	U	CAWR-10-11872	FD	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Fe	SW-846:6010B	UF		260	ug/L	30			CAWR-10-11781	FD	GELC	300	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Hg	EPA:245.2	F	<	0.2	ug/L	0.07	U	U	CAWR-10-11872	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Hg	EPA:245.2	UF	<	0.2	ug/L	0.07	U	U	CAWR-10-11781	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mn	SW-846:6010B	F		14.6	ug/L	2			CAWR-10-11872	FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mn	SW-846:6010B	UF		41.9	ug/L	2			CAWR-10-11781	FD	GELC	50	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Mo	SW-846:6020	F		5.89	ug/L	0.1			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Mo	SW-846:6020	UF		5.52	ug/L	0.1			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Ni	SW-846:6020	F		1.71	ug/L	0.5	J	J	CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Ni	SW-846:6020	UF		1.63	ug/L	0.5	J	J	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	CAWR-10-11872	FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Pb	SW-846:6020	UF		0.64	ug/L	0.5	J	J	CAWR-10-11781	FD	GELC	15	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Sb	SW-846:6020	F	<	3	ug/L	0.5	U	U	CAWR-10-11872	FD	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Sb	SW-846:6020	UF	<	3	ug/L	0.5	U	U	CAWR-10-11781	FD	GELC	6	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Se	SW-846:6020	F	<	5	ug/L	1	U	U	CAWR-10-11872	FD	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Se	SW-846:6020	UF	<	5	ug/L	1	U	U	CAWR-10-11781	FD	GELC	50	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	SiO2	SW-846:6010B	UF		27.8	mg/L	0.05			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Sn	SW-846:6010B	F	<	100	ug/L	25	U	U	CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Sn	SW-846:6010B	UF	<	100	ug/L	25	U	U	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Sr	SW-846:6010B	F		259	ug/L	1			CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Sr	SW-846:6010B	UF		280	ug/L	1			CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Tl	SW-846:6020	F	<	1	ug/L	0.3	U	U	CAWR-10-11872	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	Tl	SW-846:6020	UF	<	1	ug/L	0.3	U	U	CAWR-10-11781	FD	GELC	2	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	U	SW-846:6020	F		3.52	ug/L	0.05			CAWR-10-11872	FD	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	U	SW-846:6020	UF		3.53	ug/L	0.05			CAWR-10-11781	FD	GELC	30	EPA PRIM DW LVL
Rio Grande at Otowi Bridge	01/26/10	V	SW-846:6010B	F		3.31	ug/L	1	J	J	CAWR-10-11872	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	V	SW-846:6010B	UF		3.83	ug/L	1	J	J	CAWR-10-11781	FD	GELC		
Rio Grande at Otowi Bridge	01/26/10	Zn	SW-846:6010B	F	<	10	ug/L	3.3	U	U	CAWR-10-11872	FD	GELC	5000	EPA SEC DW LVL
Rio Grande at Otowi Bridge	01/26/10	Zn	SW-846:6010B	UF		3.97	ug/L	3.3	J	J	CAWR-10-11781	FD	GELC	5000	EPA SEC DW LVL

Lab Qual Code	Lab Qual Description
*	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criter
**	** (Organic) and (Inorganic) - The result for this analyte in the Laboratory Control Sample analysis was outside acceptance crite
*E	* (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the up range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
B	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit.
B*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
B*E	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BE*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BEN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BEN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BJ	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
BJN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (J) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC).
BJP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BJPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this anal between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BN	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
BN*	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
BNE	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. (E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
BP	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
BPX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
BW	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than Instrument Detection Limit but less than the Contract Required Detection Limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteria.
BX	(B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (X) Diode array didn't confi
D	(D) (Organic) - The result for this analyte was reported from a dilution
DJ	(D) (Organic) - The result for this analyte was reported from a dilution. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Li (MDL) but less than the Practical Quantitaion Limit (PQL).
DNA	did not analyze due to broken equipment
DP	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
DPX	(D) (Organic) - The result for this analyte was reported from a dilution. (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
E	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
E*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJ	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
EJ*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
EJN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the se dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
EN*	(E) (Organic) - The result for this anlayte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
H	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeds
H*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic) - The result for this analyte in the Labora Control Sample analysis was outside acceptance criteria.
HJ	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
HJ*	(H) (Organic/Inorganic) - The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics) - The result for this analyte was gre than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
I	(I) (DIOXIN) The lab is reporting an interference for the associated congener. The reported concentration is an Estimated Maximum Possible Concentration (EMPC) due to t reported interference.
INS	(d15N) - The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value can not be given to a bla since the blank does not have nitrate. This is different than most analytical methods where you would run a blank and use the designator: "non detect" or detected, but below detection limit.
J	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
J*	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL) (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JN	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
JN*	(J) (Organic/Inorganic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQ (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
JP	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
JPX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
JX	(J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL). (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
L	(L) (Inorganic) - The result for this analyte in the serial dilution sample indicates physical and chemical interferences are prese
LT	(LT) (Rad) - The result for this analyte is affected by spectral interferance
N	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria.
N*	(N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptar criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
P	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference.
PJ	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Meth 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (J) (Organic/General Inorganics) - The result for this analyte was greater than the Method Detection Limit (MDL) but less than the Practical Quantitaion Limit (PQL).
PX	(P) (Pesticides/PCBs) - The quantitative results for this analyte between the primary and secondary GC columns were greater than 25% difference. (P) (SW-846 EPA Method 8310 High Pressure Liquid Chromotography, HPLC results) - The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected.
Q	(Q) The result for this analyte was reported at an elevated reporting lim
R	(Inorganic) -The data are not useable. Organic -The data are unusable (compound may or may not be present.) Resampling and reanalysis is necessary for verification.
SI	(SI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
SQ	(SQ) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
TI	(TI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification due to spectral interferanc
U	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting lim
U*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. * (Inorganic) - The result for this analyte in the Laboratory Replicate anal was outside acceptance criteria.
UE	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative.
UE*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UEN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (E) (Organic) - The result for this anlayte exceeded the upper range of instrument initial calibration curve. (E) (Inorganic) (ICP-AES) - The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA) - The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic) - The reported analyte is a tentitively identified compound (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UH	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded.
UH*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic) - The required extraction or analysis holding time this result was exceeded. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UI	(UI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identificatio
UJ	(UJ) (Organic) Legacy CST lab code should not be used
UL	UL (all suites) Not detected legacy - This lab qual code is applied by WQ personnel for CST data and other legacy data that was reported as not detected using the less th symbol without the laboratory assigning a U lab code.
UN	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria.
UN*	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (N) (Organic) - The reported analyte is a tentitively identified compou (TIC). (N) (Inorganic) - The result for this anlayte in the matrix spike sample was outside acceptance criteria. * (Inorganic) - The result for this analyte in the Laboratory Replicate analysis was outside acceptance criteria.
UUI	(UUI) (Rad) - Gamma spectrocopy result should be regarded as an uncertain identification and the lab assigned these gamma spectroscopy results as not detected.
UW	(U) (Organic/Inorganic) - The result for this analyte was not detected at the specified reporting limit. (W) (Inorganic GFAA CLP) - The result for this analyte in the post-digest spike sample was outside acceptance criteria.
UY2	(UY2) (Rad) - Result should be regarded as an uncertain identification due to spectral interferanc
W	(W) (Inorganic GFAA CLP) - The result for this analyte in the post-digestion spike sample was outside acceptance criteri
X	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detecte
XB	(X) (Organic/Inorganic) - The result for this analyte should be regarded as not detected. (B) (Organic) - This analyte was detected in the associated Laboratory Method Blank and the sample. (B) (Inorganic) - The result for this analyte was greater than the Instrument Detection Limit but less than the Contract Required Detection Limit.

Valid Flag Code
A
DNA
GUP
IUP
J
J-
J+
JN-
JN+
JPM
LIMIT
MS
MSD
N
NJ
NQ
NUP
P
PM
R
RPM
RUP
U
UA
UJ
VUP

Reason Code	Reason Description
CB16	The instrument performance sample did not pass method acceptance criteri
CB4	The sample result is ≤<5 times the concentration of the related analyte in the method bla
CB4a	The affected analytes are considered estimated and biased high because this analyte was idenified in the method blank, but was >5x.
CB4d	The sample result is ≤<5 times the concentration of the related analyte in the trip blank, rinsate blank or equipment bla
DF7c	The ICV and/or CCV were recovered outside the method specific limit
DR12e	The MS/MSD percent recovery was greater than or equal to 10%, but less than 70
G3TPU	The sample result is less than or equal to three times the 1-sigma total propagated uncertain
GNPO	The reported result should be regarded as rejected because no peak was observed for this radionuclide in the gamma spectru
GNQ	The reported result should regarded as rejected because the the gamma spectrum peak was not quantitati
GR1	The tracer yield information is missing. Data may not be acceptable for us
GR19	The validator identified quality deficiencies in the reported data that require qualificati
GR1a	The tracer %R value is less than 10%
GR1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
GR1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
GR3	The matrix spike information is missing. Data may not be acceptable for use
GR3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
GR4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal t the associated sample concentration.
GR5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
GR6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
GR6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
GR6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
GR7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
GR7c	The affected analytes are qualified as as rejected because the RER was greater than
GTI	The reported result should be regarded as rejected because the radionuclide identification based on the gamma spectrum is tentative.
GUP_R	Gamma:Units and matrix inconsistent
H0	The analyte RT shifted by more than 0.05 minutes from the mid-level standard of the initial calibrati
H10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
H11	The required retention time information is missing. Data may not be acceptable for us
H11a	The affected analytes should be regarded as rejected because the associated retention times have shifted by more than 0.05 minutes from the initial calibration.
H12	Required LCS data are missing. The LCS analyte recoveries could not be evaluated. Data may not be acceptable for u
H12a	The LCS percent recivery was < the Lower Acceptance Limit (LAL) but >10%. Follow external laboratory limits located within the associated d package.
H14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
H14b	The matrix spike and/or the matrix spike duplicate analyses were not performed on a sample associated with a LANL request number.
H14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
H15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
H16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
H19	The validator identified quality deficiencies in the reported data that require qualificati
H3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results
H3a	The surrogate percent recovery is less than the LAL but greater than 10%R, which indicates the potential for a low bias in the detected results.
H3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
H3d	The surrogate recovery is less than 10% and the result is a nondetect, which indicates significant potential for false negative resu
H3e	At least one surrogate percent recovery exceeds its upper UAL and at least one surrogate is less than its LAL, which indicates a greater than normal degree of uncertainty in the data.
H3f	At least one surrogate is less than 10%R and the sample result is a detect, which indicates the potential for a severely low bias in the results.
H3g	Required surrogate information is missing. Data may not be acceptable for us
H4	The sample result is greater than the EQL and less than five times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x.
H4b	Required method blank information is missing. Data may not be acceptable for us
H5	The sample result is less than the EQL and less than five times the concentration of the analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
H6	The recovery of the LCS analyte is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
H6b	The of the LCS analyte percent recovery is less than the LAL and greater than or equal to 10%R, which indicates (1) the reporting limit is approxir and probably biased low for nondetected results, and (2) that detected results likely are biased low.
H6d	The result is a nondetect and the %R value of surrogates or the analyte in the LCS is less than 10%R, which indicates a greatly increased potential for false negative results.
H7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
H7c	The affected analytes should be regarded as estimated and/or rejected because the associated analyte did not have a standard at the reporting limit.
H8	The analyte was not confirmed on a second dissimilar column or diode array spectrums do not match librar
H88	Duplicate, dilution, or reanalysi
H8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
H9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the effects of exceeding the holding time. Factors to consider include how long the holding time was exceeded, sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
H9a	The extraction/analytical holding time was exceeded by >2X the published method for holding tim
HE12a	The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory lim
HE12d	The MS/MSD percent recovery was <10%
HE12e	The MS/MSD percent recovery was >10% but <70%
HE12f	The MS/MSD percent recover was >70%
HE12g	The MS/MSD relative percent difference was >30%
HE16	The Contract Required Detection Limit Check Standard (CRI) sample did not pass method acceptance criter
HE1c	The IS area count for the quantitating IS is >130% of the average of that obtained from the calibration standa
HE3	The surrogate is <10%R. Follow the external laboratory limi
HE4	The sample result is ≤5 times the concentration of the related analyte in the method blar
HE7b	The affected analytes were analyzed with a RRF of <0.05 in the initial calibration and/or C
HE7c	The ICV and/or CCV were recovered outside the method limit
HE88	Duplicate, dilution, or reanalysis
HE9	The holding time was >1 and ≤2 times the applicable holding time requiremen
HWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
HWQ10	Calibration Verification %D exceeded 60%
HWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
HWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
HWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
HWQ5	Non-specified quality control failure - see validation repo
HWQ6	The sample was improperly preserved
HWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
HWQ8	Calibration % RSD was greater than 60%
HWQ9	Calibration verification %D exceeded acceptance criteria but was less than 60
I1	The sample result was reported as detected between the IDL and the EDL. Reported result may be less precise than results which are reported as being above the EDL.
I10	The duplicate sample RPD is greater than the advisory limit and the sample result is a detect. Manual review is suggested to determine the source of the difference between analyses.
I10a	The duplicate sample RPD is greater than the advisory limit and the sample result is a nondetect. Manual review is suggested to determine the source of the difference between analyses.
I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package
I10c	The affected analytes should be regarded as estimated because the duplicate results exceeded the RPD requiremer
I10d	The affected analytes should be regarded as estimated because the duplicate results were greater than 2x the RL and the RPD was greater than 20 for wates and 35 for soils.
I13a	Insufficient sample volume was received for a duplicate-sample analysi
I13b	The duplicate-sample analysis was not performed on a sample associated with this request numbe
I14a	Insufficient sample volume was received for a matrix-spike analysi
I14b	The matrix-spike analysis was not performed on a sample associated with this request numbe
I15	The sample was damaged, lost, or there was insufficient quantity and the analytical laboratory was unable to analyz
I15a	An ICV was not reported for this sample
I15b	A CCV was not reported for this sample
I16	Relative percent difference is greater than 10% in the serial dilution samp
I16a	The affected analytes should be regarded as rejected because the ICV/CCV recovered hig
I16c	The affected analytes should be regarded as estimated because the ICV/CCV recovered lo
I16d	The affected analytes should be regarded as rejected because the ICV/CCV recovered less than 10
I16e	The affected analytes should be regarded as rejected because the initial calibrations corralation coefficient was less than 0.9
I16z	The affected analytes should be regarded as rejected because the ICV/CCV was not analyzed with the associated sampl
I18	Serial dilution sample RPD was >10% and the sample result was >50X MDL (>100X the MDL for ICPMS). Qualify only the sample used for serial dilution
I18a	The affected analytes should be regarded as estimated because a serial dilution sample was not analyzed on a LANL sam
I19	the LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the LANL project chemist.
I3	The spike percent recovery value is greater than or equal to the upper acceptance limit (125%) but less than or equal to 150% and the result is a detect, which indicates a potential high bias in the sample results.
I3a	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a detect, which indicates a potential low bias in the results.
I3d	The spike percent recovery value is less than 30%, and the result is a nondetect, which increases the potential for false negatives being reported. This could be caused by analytical interferences.
I3e	The spike percent recovery value is greater than 30% and less than the lower acceptance limit (75%), and the sample result is a nondetect, which indicates a potential for false negatives being reported.
I3f	The spike percent recovery value is less than 30% and the sample result is a detect, which indicates a potential low bi
I3g	The sample result is undetected and the spike percent recovery value is greater than 150%, which indicates a potential bias in the sample result.
I3h	The sample result is detected and the spike percent recovery value is greater than 150%, which indicates a potential high bias in the sample result.
I4	the sample result is ≤<5x the concentration of related analyte in the method blar
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x
I4b	The sample result is ≤< 5x the concentration of the related analyte in the instrument blank and continuing calibration bl
I4d	The sample result is ≤<5x the concentration of the related analyte in the trip blank, rinsate blank, or equipment bl
I5	The sample result is less than the estimated detection limit (EDL) and is considered to be not detecte
I6	The percent recovery value of the analyte in the LCS is greater than the upper acceptance limit, which indicates a potential for quantitation problems in the analyses and the potential for false positive results being reported.
I6a	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a detect, which indicates a potentia quantitation problems in the analyses and the potential for false negative results being reported.
I6b	The percent recovery value of the analyte in the LCS is less than the lower acceptance limit and the analyte is a nondetect, which indicates a potential for quantitation problems in the analyses and the potential for false negative results being reported.
I6c	The corresponding LCS or LCS analyte was not analyzed with the associated batc
I7	The ICS percent recovery value is greater than 120% and the result is a detect, which indicates potential quantitation problems in the analyses and the potential for false positive results being reported.
I7a	The ICS percent recovery value is greater than or equal to 50% and less than 80% and the result is a detect, which indicates a potential for a low bias.
I7b	The ICS percent recovery value is less than 50%, which indicates a greatly increased potential for false negative sample results being reported.
I7c	The ICS percent recovery value is greater than or equal to 50% and less than 80%, and result is a nondetect, which indicates a potential for false negative results being reported.
I7d	The ICS data was not provided by the analytical laborator
I88	Duplicate, dilution, or reanalysi
I9	The holding time is exceeded. Positive results may be biased low and nondetected analytes may be false negatives. An evaluation of the data with respect to the technical implications of exceeding the holding time is recommended. Factors to consider include sample preservation; sample storage practices; data use; levels of contamination found in the sample; and the physical, chemical, and biological stability of the target analytes in the sample matrix.
I9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceed
IWQ1	The sample temperature was elevate
IWQ2	Negative blank samples results were greater than the MD
IWQ4	Sample should have been preserved by acidification, but was nc Error not corrected at laboratory.
IWQ5	Sample should not have been acidified, but was. Error could n be corrected at laboratory.
IWQ6	Non-specified quality control failure - see validation repo
IWQ7	Reporting limit verification recovery was greater than the acceptance criter
J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the M
LB	Gross contamination exists from a source other than the standar
LB1	Method-blank data is missing, or method blank was not analyzed at the required frequen
LB2	ICB/CCB data is missing, or ICB/CCB was not run at the required frequenc
LB9	The sample result is less than five times the concentration of the related analyte in the bla
LC1	The frequency of the CCV did not meet method criteri
LC2	The CCV %D failed high
LC3	The CCV %D failed low
LCO	Suspected carry over. Compound detected in sample at value < 5X PQL. The previous sample had a value > high standard and required dilution.
LDL1	No CRI was analysed to verify the reporting lim
LDL2	The CRI recovery failed high
LDL3	The CRI recovery failed low
LDS1	An initial dilution was performed and the surrogate recovery was >/= 10% OR < 10% but some sample results are > PQ
LDS2	An initial dilution was performed and the surrogate recovery was 0% and sample results are non-dete
LDS3	The sample result in a diluted sample was non-detec
LDS4	The instrument response for a diluted sample result was < half the lowest calibration standard and the sample result is dete
LH1	The holding time is exceeded for sample analysi
LH2	The holding time is exceeded for sample extractio
LH3	The holding time is exceeded by greater than twice the specified holding tir
LI	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
LI2	A second source ICV (or second standard made from the same stock) was not used to verify the Ic
LI3	The initial calibration %RSD or correlation coefficient failed to meet acceptance criter
LI4	The initial calibration slope or RF criteria were not me
LI5	The initial calibration y-intercept criteria were not me
LI6	An insufficient number of calibration standards were used and/or all standards were not analyzed within a 24 hour period. Data may not be acceptable for use.
LI7	Points were removed from the calibration curve and the reporting limits were not adjusted according
LIR1	Chorine isotope ratio criteria not met
LIS	Required IS information is missing
LIS1	The IS area count failed high
LIS2	The IS area count failed low
LIS4	The IS RT is > 30secs from that of the associated standard
LIV2	The ICV %D failed high
LIV3	The ICV %D failed low
LL1	The frequency of the LCS did not meet the specified criteri
LL2	The LCS %R failed high
LL3	The LCS %R failed low
LL4	The LCS %Rs failed both high and low, or the LCS/LSCD RPD failed to meet criteri
LMS1	An applicable MS/MSD analysis was not performed
LMS2	The MS/MSD %R failed high
LMS3	The MS/MSD %R failed low
LMS4	Relative percent difference of the MS/MSD is greater than the acceptance criteria or the recoveries fail both high and l
LP1	The sample was improperly preserved
LP3	Sample not maintained at required temperatur
LR1	The sample result exceeded the calibration rang
LR2	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
LRP1	There is no measure of precison for the sample ie. No replicate, MSD or LCSD was performe
LRP2	The replicate precision criteria are not met
LS	Required surrogate information is missing. Data may not be acceptable for us
LS1	Surrogate failed high
LS2	Surrogate failed low
LS4	The surrogate %R in the blank did not meet acceptance criteri
LWQ1	Non-specified quality control failure - see repo
NQ	The analytical laboratory did not qualify the analyte as not detected and/or any other standard qualifier. The analyte is detected in the sample.
P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential fthe labile compounds Endrin and 4,4'--DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windov
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary w included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptable for use
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptable for use.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	The ICV/CCV were recovered outside the method specific limit
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P88	Duplicate, dilution, or reanalysi
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PE12e	The MS/MSD percent recovery was >10% but <75
PE12f	The MS/MSD percent recovery was >125%
PE15a	The sample was diluted because target analytes were > the initial verification calibrati
PE16a	The Interference Check Sample was not within ±20% of the known valu
PE7c	The ICV and/or CCV were recovered outside the method limit
PE7d	The ICV and/or CCV were not analyzed at the appropriate method frequen
PE9	The holding time was >1 and <=2 times the applicable holding time requireme
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R1	The tracer /carrier %R value is < 10%
R10	Associated duplicate sample has DER or RED> the analytical laboratory's acceptance limit
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix-spike %R value is less than 10% and the result is detecte
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R4	The method blank information is missing. Data may not be acceptable for us
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The associated matrix spike recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to Gamma Spectroscopy.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R88	Duplicate, dilution, or reanalysi
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MDI
RWQ3	Less than the negative MDI
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125%
RWQ7	Non-specified quality control failure - see validation repo
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results. SV3a Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV4d	The sample result is </=5x the concentration of the related analyte in the rinse or equipment bla
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV7c	The ICV/CCV were recovered outside the method specific limit
SV7d	The ICV/CCV was not analyzed at the appropriate method frequenc
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV88	Duplicate, dilution, or reanalysi
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%–+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for use
V12a	The LCS percent recovery was less than 10%
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary w included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1b	This analyte should be regarded as estimated because the IS failed hig
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4d	The samples result is </=5x the concentration of the related analyte in the trip, rinsate and/or equipment bla
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V7c	The ICV and or CCV recovered outside the method specific criteri
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V88	Duplicate, dilution, or reanalysi
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
OPa	ORGANIC_OPa
OR1	INORGANIC_OR1
OSIN	ORGANIC_OSIN
OSV12	ORGANIC_OSV12
OSV1a	ORGANIC_OSV1a
OSV3	ORGANIC_OSV3
OSV3a	ORGANIC_OSV3a
OSV4	ORGANIC_OSV4
OSV4a	ORGANIC_OSV4a
OSV7	ORGANIC_OSV7
OSV7a	ORGANIC_OSV7a
OSV9	ORGANIC_OSV9
OUJLA	O_UJ_LAB
OULAB	O_U_LAB This analyte should be regarded as not detected because the laboratory assigned a U lab quali
OV3	OV3
OV36	ORGANIC_OV36
OV3a	ORGANIC_OV3a
OV3b	ORGANIC_OV3b
OV3c	ORGANIC_OV3c
OV4	INORGANIC_OV4
OV7	ORGANIC_OV7
OV7a	ORGANIC_OV7a
OV9	ORGANIC_OV9

P10	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a low bias in the reported results and potential f the labile compounds Endrin and 4,4'--DDT.
P10a	The breakdown criteria have been exceeded, which indicates poor instrument performance, which can result in a high bias in the reported results and potential false positive results for the breakdown products Endrin ketone, Endrin aldehyde, DDD, and DDE.
P10b	The breakdown recovery data are missing. The analyte breakdown could not be evaluat
P10c	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
P11	The surrogate retention time has shifted by more than 0.05 min, possibly affecting analyte identification and causing false positives or negatives to be reported.
P11a	The surrogate recovery data are missing. Surrogate recoveries could not be evaluate
P11b	The affected analytes are considered estimated because the confirmed analytes was outside the retention time windo
P12	The LCS data are missing. The LCS analyte recoveries could not be evaluate
P12a	The LCS analyte is less than 10%R, which indicates the potential for a severely low bias in the resu
P12b	The LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for a low bias in the resu
P12c	The result is a nondetect and the LCS analyte is greater than 10%R but less than the LAL, which indicates the potential for false negative results.
P12d	The LCS analyte %R value is greater than the UAL, which indicates the potential for high bias in the results and for false positive results.
P13	The Florisil cleanup not conducted; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13a	The GPC cleanup was not conducted on this soil sample; interferences may have increased analytical uncertainty and the potential for both false positives and false negatives.
P13b	The appropriate cleanup was not conducted; interferences may have increased the analytical uncertainty and the potential for both false positives false negatives. Examples of required cleanups are sulfur contamination (sulfur cleanup required), interferences in PCB samples (sulfuric acid cleanup required), and high molecular weight interferences in water samples (GPC cleanup required).
P14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
P14b	The matrix spike and/or the matrix spike duplicate analysis were not performed on a sample associated with a LANL request number.
P14c	The matrix spike and/or the matrix spike duplicate were analyzed on a sample associated with a different LANL request number but no summary was included.
P15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
P16	Required continuing calibration information is missing. Data may not be acceptable for us
P19	The validator identified quality deficiencies in the reported data that require qualificatio
P23B	P23B
P3	The surrogate %R value is greater than the UAL, which indicates the a potential for a high bias in the results and a potential for false positive results.
P3a	The surrogate is greater than 10%R but less than the LAL, which indicates the potential for low bias in the resu
P3b	The surrogate is less than 10%R, which indicates the potential for a severely low bias in the resul
P3c	The result is less than the EQL and the surrogate %R value is greater than10 % but less than the LAL, which indicates a potential for false negative results being reported.
P3d	The result is less than the EQL and the surrogate less than 10%R, which indicates a significant potential for false negative resu
P3e	One surrogate recovery is greater than the UAL and one surrogate recovery is less than the LAL, which indicates increased uncertainty in reported results.
P3f	The surrogate information is missing. Data may not be acceptale for us
P4	The sample result is a detect but less than 5 times the concentration of the related analyte in the blank, which indicates that the reported detection is considered indistinguishable from blank contamination.
P46	PESTPCB_P46
P4a	The method blank or instrument blank documentation is missing
P4b	The surrogate information is missing. Data may not be acceptale for use.
P5	PESTPCB_P5
P6	PESTPCB_P6
P7	The percent relative standard deviation (%RSD) or percent difference (%D) exceeds the applicable acceptance criterion, which indicates potential quantitation problems in the analyses and the potential for false negative results.
P77	The affected analytes are considered estimated because the associated continuing calibration standard was not analyzed within 72 hours of the initial analysis. This is for multi-component analytes.
P7a	The multicomponent analyte standard was not analyzed within 72 hrs of a multicomponent analyte detection. Quantitation of the multicomponent detection in the sample may not be accurate.
P7b	PESTPCB_P7b
P7c	PESTPCB_P7c
P8	This analyte should be regarded as not-detected because it was not confirmed on a second dissimilar colum
P8a	The required confirmation column analysis data is missing. Data may not be acceptable for us
P9	The holding time is exceeded. The data user should conduct a technical evaluation of the data of interest with respect to the impact of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
P913	PESTPCB_P913
P9a	The affected analytes should be regarded as estimated because the extraction holding time was exceeded by 2 times the acceptable holding time.
P9b	The results for the affected analytes are rejected because the analytical holding time was exceede
PC	PESTPCB_PC
PEQL	P_EQL/MDL The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the M
PHOLD	P_HOLD_TIME
PJCST	P_J_CST
PJLAB	PJLAB_PESTPCB
PLIA	P_LIA
PNONE	No reason for historic AROCLOR data
PNQ	P_NQ
PQCBL	P_QC_BLIND
PS10	P_Surr < 10%
PUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
PUJLA	P_U_LAB
PULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
PV3	PESTPCB_PV3
PV4	PESTPCB_PV4
PWQ1	No MS/MSD data was included in the data packag
PWQ10	Calibration verification %D exceeded acceptance criteria but was less than 60
PWQ11	Calibration Verification %D exceeded 60%
PWQ2	Relative percent difference of the MS/MSD is greater than the acceptance criter
PWQ3	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
PWQ4	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
PWQ5	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
PWQ6	Non-specified quality control failure - see validation repo
PWQ7	The sample was improperly preserved
PWQ8	Calibration % RSD was greater than the acceptance criteria but less than 60
PWQ9	Calibration % RSD was greater than 60%
R 6B	RAD_R 6B
R_MDA	R_MDA
R1	The tracer /carrier %R value is < 10%
R10	RAD_R10
R10a	RAD_R10a
R10b	RAD_R10b
R11	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration was less than 3x the 1 sigma TPU.
R11a	RAD_R11a
R11b	RAD_R11b
R11c	RAD_R11c
R11d	RAD_R11d
R14	RAD_R14
R14a	Insufficient sample volume was received for a matrix-spike analysi
R14b	The matrix-spike analysis was not performed on a sample associated with this R
R16	RAD_R16
R16a	Result is greater than the MDC for the following fission and activation products with half-lives less than 365 days: Ce-144, Co-57, Mn-54, Pa-233, Se-75, and Zn-65.
R16b	Result is greater than the MDC for the following radionuclides not reliably measured by gamma spectroscopy: Ac-228, Ba-140, Bi-212, I-129, La-140, Np-237, Pa-231, Pa-234, Pb-210, Pb-211, Ra,-223, Ra-224, Ra-226, and Rn-219.
R16c	Result is greater than the MDC for the following naturally occurring radionuclides that are reliably measured by gamma spectroscopy and that can provide an indication of the quality of the gamma spectroscopy measurement: Bi-211, Bi-214, K-40, Pb-212, Pb-214, Th-227, Th-234, Tl-208, and annihilation radiation.
R16d	Result is greater than the MDC for the following six radionuclides typically used by the analytical labs in their LCSs for instrument calibration and checks on instrument performance: Cd-109, Ce-139, Hg-203, Sn-113, Sr-85, and Y-88.
R19	The validator identified quality deficiencies in the reported data that require qualificati
R1a	The tracer %R value is 10-30% inclusive and the sample result is greater than the MD
R1b	The tracer %R value is 10-30% inclusive and the sample result is less than the MD
R1c	The MDC for the affected analytes are qualified as estimated because the associated tracer recoverywas less than 30% but greater than 10% and the result is a non-detect.
R1d	The results for the affected analytes are qualified as estimated and biased high because the associated tracer yield was greater than 105%.
R1e	The tracer/carrier %R value is not reported
R1x	The tracer %R value is less than 10%
R1z	The tracer %R value is less than 30% but greater than 10% and the sample result is a dete
R3	The matrix spike %R value is greater than the upper limit and the sample result is greater than the MI
R3a	The matrix spike %R value is less than the lower limit and the sample result is greater than the MI
R3b	The matrix-spike %R value is less than 10% and the result is not-detecte
R3c	The matrix spike %R value is less than the lower limit and the sample result is less than the MD
R3d	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are detected.
R3e	The results for the affected analytes are qualified as estimated and biased low because the associate matrix spike recovery was less than the LAL but greater than 10%, and the results are non-detect.
R3TPU	P_UJ_LAB
R4	The sample result is greater than the MDA but less than 5 times the amount found in the bla
R4a	The results for the affected analytes should be regarded as not-detected (U) because the associated sample concentration is less than or equal to the associated sample concentration.
R4b	Blank data is either missing from or not reported in the data record packag
R4z	The method blank information is missing. The data may be acceptable for us
R5	Analyte is not detected because the amount reported is less than the MD
R5a	The MDC and/or TPU documentation is missing. Data may not be acceptable for us
R5b	This analyte should be regarded as rejected because spectral interferences prevents positive identification of the analyt
R6	Recovery of the analyte in the LCS is greater than the upper limit and the analyte result is greater than the M
R6a	Recovery of analyte in the LCS is less than the lower limit and the analyte is greater than the MDA in the sam
R6b	The results for the affected analytes should be regarded as rejected because the LCS %R was less than 10
R6c	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are detected.
R6d	The results for the affected analytes are qualified as estimated and biased low because the associated LCS was less than the LAL but greater than 10%, and the results are non-detect.
R6e	The LCS data is missing from the data record package
R7	The duplicate information is missing. Data may not be acceptable for us
R7a	The results for the affected analytes are qualified as estimated because the associated duplicate results were prepared separately from the original analysis.
R7b	The duplicate and sample results have a DER (duplicate error ratio) that is greater than 2
R7c	The affected analytes are qualified as as rejected because the RER was greater than
R8	RAD_R8
R9	The results for the affected analytes should be regarded as estimated because the hloding time was exceed
R96	RAD_R96
R9a	The results for the affecteed anaytes should be regarded as rejected because the holding time was exceeded by 2x the method published holding times.
R9b	RAD_R9b
RA	R_Accidentally_
Rb	RAD_Rb
RB7	RAD_RB7
RC0TP	R_CST_ZERO_TPU
RC0UN	R_CST_0_UNC
RI14a	RAD_RI14a
RI14b	RAD_RI14b
RI3	RAD_RI3
RI3a	RAD_RI3a
RI4	RAD_RI4
RI5	RAD_RI5
RI6	RAD_RI6
RIA	RAD_RIA
RIB	RAD_RIB
RJCST	R_J_CST
RJLAB	R_J_LAB
RLIA	R_LIA
RNONE	No reason for historic RAD data
RNQ	R_NQ
RPA	RAD_RPA
RQCBL	RQCBL_RAD
RQCMX	R_Samp_QC_Mixed
RRLAB	R Lab RAD
RSQLP	RAD_SQLPLUR9B
RT30	R_Tracer < 30%
RUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
RUJLA	RUJLA_RAD
RULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
RUP_R	RAD: Units and matrix inconsistent
RWQ1	Planchets were flamed
RWQ2	Result values are less than than 3 times the MD
RWQ3	Less than the negative MD
RWQ4	Planchets were not flamed
RWQ5	The tracer %R value is greater than 105% but less than 125
RWQ6	The tracer %R value is greater than 125
RWQ7	Non-specified quality control failure - see validation repo
RZUNC	R_ZERO_UNCERT
SEQLM	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
SHOLD	SHOLD
SJCST	SJCST
SJLAB	SJLAB
SNQ	SNQ
SPECT	HEXP_SPECTRAL MATCH
SQCBL	SQCBL
SQLPL	RAD_SQLPLUR9B
SRO9	ORGANIC_SRO9
SSU10	SSU10
SUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
SUJLA	SUJLA
SULAB	SULAB
SV0	The IS retention time has shifted by more than ?30 sec, which could affect compound identification and result in false positives or negatives.
SV1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration, which could affect the quantitation accuracy of the associated analytes and the correct quantitation of surrogate %R values.
SV10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
SV11	TICs are not reported but were requested by ER Project. The validator contacted the laboratory that had not provided T
SV12	The LCS documentation is missing. Data may not be acceptable for use
SV12a	The LCS percent recovery was less than 10%
SV12b	The LCS percent recovery was less than the LAL but greater than 10% and the result is detecte
SV12c	The LCS percent recovery was less than the LAL but greater than 10% and the result is not detecte
SV12d	The affected analytes should be regarded as estimated and biased high because the LCS percent recovery was greater than the UAL.
SV13c	SVOC_SV13c
SV15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
SV16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
SV16a	The results for the affected analytes are rejected because the instrument performance sample (DFTPP) did not pass method acceptance criteria
SV19	The affected analytes are qualified because the data validator identified quality deficiencies in the reported d
SV1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
SV1b	The area count for the quantitating IS is greater than 200% of the area count for the previous continuing calibrat
SV2	The quantitating IS area count is less than 10% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation.
SV2a	Required IS information is missing. Data may not be acceptable for use
SV2c	SVOC_SV2c
SV3	The %R values for two or more surrogates in either SV fraction is greater than the UAL, which indicates the potential for high bias in the results and the potential for false positive results.
SV3a	Two or more surrogates in either SV fraction are greater than or equal to 10%R but less than the LAL, which indicates the potential for low bias in the results.
SV3b	A surrogate in the related fraction is less than 10%R, and the result is a detect, which indicates the potential for severely low bias in the results.
SV3c	The result is a nondetect and two or more surrogates are greater than or equal to 10%R but less than the LAL, which indicates increased potentia false negative results.
SV3d	The result is a nondetect and a surrogate in the related fraction is less than 10%R, which indicates a greatly increased potential for false negative results.
SV3e	The %R value of one surrogate in a fraction is greater than the UAL and one is less than the LAL but greater than or equal to 10%R, which indicat greater than normal uncertainty in the results.
SV3f	Required surrogate information is missing. Data may not be acceptable for us
SV4	The sample result is greater than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the related analyte in the blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
SV4b	Required method blank information is missing. Data may not be acceptable for us
SV5	The sample result is less than the EQL and less than or equal to 5 times (10 times for common phthalates) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from contamination in the blank.
SV5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
SV5v7	SVOC_SV5v7a
SV6	SVOC_SV6
SV6b	SVOC_SV6b
SV7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
SV7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
SV7b	The affected analytes were analyzed with a RRF of less than 0.0
SV8	The affected analyte is considered not detected because mass spectrum did not meet specification
SV8a	The mass spectrum documentation is missing. Data may not be acceptable for use
SV9	The extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effect of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
SV9a	The affected analytes are regarded as rejected because the extraction holding time was exceeded by 2x the method published holding time requirements.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceede
SVA	SVOC_SVA
SVC	SVOC_SVC
SVD	SVOC_SVD
SVI	SVOC_SV
SVIA	SVOC_SVIA
SVNON	No reason for historic SVOC data
SVPM	SVOC_SVPM
SVS	SVOC_SVS
SVV12	SVOC_SVV12a
SVV1a	SVOC_SVV1a
SVV3	SVOC_SVV3
SVV4	SVOC_SVV4
SVV5	SVOC_SVV5
SVV7a	SVOC_SVV7a
SVV9	SVOC_SVV9
SVVS1	SVOC_SVVS1a
SWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
SWQ10	Calibration Verification %D exceeded 60%
SWQ11	The LCS recovery was greater than the acceptance criteri
SWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit and the result is a detect, which indicates a potential high in the sample results.
SWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
SWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
SWQ5	Non-specified quality control failure - see validation repo
SWQ6	The sample was improperly preserved
SWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
SWQ8	Calibration %RSD exceeded 60%
SWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60
U_LAB	The analytical laboratory qualified the analyte as not detecte
UNK	Unknown
V	VOC_V
V+	VOC_V+
V0	The IS retention time has shifted by more than ?30 seconds, which could affect compound identification and cause false positives or negatives to be reported.
V1	The IS area count for the quantitating IS is outside the -50%-+100% window in relation to the previous continuing calibration. This condition could affect the quantitation accuracy of the associated analytes.
V10	The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference.
V11	TICs are not reported by the analytical laboratory but were requested by the ER Project. The analytical laboratory was contacted and TICs were not provided.
V12	The LCS documentation is missing. The data may not be acceptable for us
V126	VOC_V126
V12a	The LCS percent recovery was less than 10%
V12b	The LCS percent recovery was less than the LAL but greater than 10%. The result is biased low and is detect
V12c	The LCS percent recovery was less than the LAL but greater than 10%. The result was not-detecte
V12d	The LCS percent recovery was greater than the UAL. The result is detected and biased hig
V14a	Insufficient sample volume was received for a matrix spike and/or a matrix spike duplicate analys
V14b	The matrix spike and/or the matrix spike duplicate analysis was not performed on a sample associated with a LANL request number.
V14c	The matrix spike a nd/or the matrix spike duplicate was analyzed on a sample associated with a different LANL request number but no summary was included.
V15	Because the sample was damaged, lost, or of insufficient quantity, the laboratory was unable to analyze
V16	Required calibration information is missing or samples were analyzed on an expired calibration. Data may not be acceptable for use.
V16a	The results should be regarded as rejected because the BFB instrument performance sample did not pass method acceptance criteria.
V19	The validator identified quality deficiencies in the reported data that require qualificati
V1a	The area count for the quantitating IS is less than 50% of the area count for the previous continuing calibration, greatly increasing the potential for false negative results.
V1b	This analyte should be regarded as estimated because the IS failed hig
V1c	VOC_V1c
V1s	VOC_V1s
V2	The quantitating IS area is less than 10% of the expected value, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
V2a	Required IS information is missing. Data may not be acceptable for use
V3	The surrogate percent recovery is greater than the UAL, which indicates the potential for a high bias in the results and the potential for false positive results.
V3a	The surrogate is less than the LAL but greater than or equal to 10%R, which indicates the potential for a low bias in the resu
V3b	The surrogate is less than 10%R and the result is a detect, which indicates the potential for a severely low bias in the resu
V3c	The surrogate is less than LAL and the result is a non-detect, which indicates the potential for a low bias in the resu
V3d	The surrogate is less than 10%R and the result is a nondetect, which indicates a greatly increased potential for false negative results.
V3e	At least one surrogate is greater than the UAL and one surrogate is less than the LAL, which indicates a greater than normal degree of uncertainty in the result.
V3f	Required surrogate information is missing. Data may not be acceptable for us
V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was greater than 5x (for common lab contaminates).
V4b	Required method blank information is missing. Data may not be acceptable for us
V5	VOC_V5
V5a	Method-blank data is missing, or method blank was not analyzed. Data may not be acceptable for u
V5c	VOC_V5c
V6b	VOC_V6b
V7	The affected results were not analyzed with a valid 5 point calibration cuve and/or a standard at the reporting li
V76	VOC_V76
V78	VOC_V78
V7a	The affected analytes were analyzed with a initial calibration curve that exceeded the %RSD criteria and/or a continuing calibration standard that exceeded %D criteria.
V7b	The affected analytes were analyzed with a RRF of less than 0.0
V8	The affected analyte is considered not detected because mass spectrum did not meet specification
V8a	The mass spectrum documentation is missing. Data may not be acceptable for use
V9	The analytical and/or extraction holding time is exceeded. The data user should evaluate the data of interest with respect to the effects of exceeding the holding time. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
V9a	The affected analytes are regarded as rejected because the analytical/extraction holding time was exceeded by 2x the method published holding time requirements.
VC4	VOC_VC4
VEQL	The result should be regarded as estimated (J) because the result was less than the EQL, but greater than the MI
VI1	VOC_VI1
VI4	VOC_VI4
VI45	VOC_VI45
VIA	VOC_VIA
VIC	VOC_VIC
VJCST	VJCST
VJLAB	VJLAB
VLA	VOC_VLA
VNONE	No reason for historic VOC data
VNQ	VNQ
VO	VOC_VO
VP	VOC_VP
VQCBL	VQCBL
VR5	VOC_VR5
VR7b	VOC_VR7b
VS	VOC_SPECTRUM
VSV1	VOC_VSV1
VSV1a	VOC_VSV1a
VSV3b	VOC_VSV3b
VSV3c	VOC_VSV3c
VSV4	VOC_VSV4
VSV5	VOC_VSV5
VSV7	VOC_VSV7
VSV7a	VOC_VSV7a
VU7a	VOC_VU7a
VUCST	VUCST
VUJCS	This analyte should be regarded as not detected because the laboratory assigned a U lab qualifier. CST assigned the J qualifier, need hard-copy to determine CST's reason.
VUJLA	VUJLA
VULAB	This analyte should be regarded as not detected because the laboratory assigned a U lab qualif
VUP_R	VOC: Units and matrix inconsistent
VWQ1	Relative percent difference of the MS/MSD is greater than the acceptance criter
VWQ10	Calibration Verification %D exceeded 60%
VWQ11	The LCS recovery was greater than the acceptance criteri
VWQ2	The spike percent recovery value is greater than or equal to the upper acceptance limit but and the result is a detect, which indicates a potential high bias in the sample results.
VWQ3	The spike percent recovery value is greater than 10% and less than the lower acceptance limit, which indicates a potential low bias in the results.
VWQ4	The spike percent recovery value is less than 10% which increases the potential for false negatives being reported. This could be caused by analytical interferences.
VWQ5	Non-specified quality control failure - see validation repo
VWQ6	The sample was improperly preserved
VWQ7	Calibration % RSD was greater than the acceptance criteria but less than 60
VWQ8	Calibration %RSD exceeded 60%
VWQ9	Calibration Verification %D was greater than the acceptance criteria but less than 60