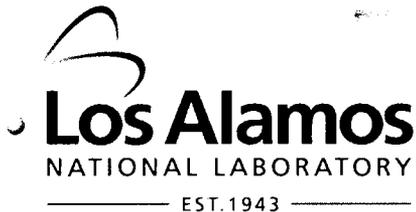


TASS



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Solid Waste Regulatory Compliance

Date: October 13, 2005
Refer to: ENV-SWRC:05-071

Lee Winn
Permits Management Program
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303



Subject: Requested Changes to Tables within the U.S. Department of Energy-National Nuclear Security Administration (DOE-NNSA)/University of California (UC) Closure Certification Report for Technical Area 55, Building PF4, Room B38 (LA-UR-05-3872)

Dear Ms. Winn:

This letter transmits revised tables for the closure certification report referenced above that was transmitted to your office May 26, 2005. As you requested on July 25, 2005, additions to Table 2-5 and Table D-1 of Appendix D of that report have been made.

A footnote was added to Table 2-5 to indicate that the Environmental Protection Agency Region 6 Media Specific Screening Levels are drinking water levels, and columns for actual detection limits and raw quantities for analytes have been added to Table D-1. Units were not converted from those found in the analytical laboratory's data package; therefore, detection limits and raw quantities in Table D-1 are expressed in parts per million or in parts per billion as the analytical data package listed them.

If you have any comments or questions regarding this submittal, please contact Luciana Vigil-Holterman of my staff at (505) 665-3435.

Sincerely,

Tony Grieggs
Group Leader

Enclosures

cc w/enclosure:
Laurie King, Chief (6PD-N)
New Mexico/Federal Facilities Section
Environmental Protection Agency
Region 6, 1445 Ross Avenue, Suite 1200
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cc w/out enclosure:

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J. Carmichael, RRES-SWRC/NMT-7, LANL, MS-E501
G. Turner, DOE/NNSA/LASO, MS-A316

Table 2-5
B38 Verification Sample Results - Comparison to Baseline, QA/QC, and EPA Region 6 MSSLS^a

Sample ID	Location	Parameter	Results (mg/L)	Qualifier	EPA Region 6 MSSLS (mg/L)	Comparison Results
Method Blank	Method Blank	1,2 Dichlorobenzene	0.001		0.061	NA
03SWRC605	NW wall #2	1,2 Dichloroethane (EDC)	0.0034		0.00012	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC609	NE wall	1,2 Dichloroethane (EDC)	0.0034		0.00012	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC603	Duplicate	1,2 Dichloroethane (EDC)	0.0025		0.00012	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC601	NW wall #1	1,2 Dichloroethane (EDC)	0.0022		0.00012	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC620	SW wall	1,2 Dichloroethane (EDC)	0.001		0.00012	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
Method Blank	Method Blank	1,3 Dichlorobenzene	0.0013		0.18	NA
03SWRC620	SW wall	1,4 Dichlorobenzene	0.0016	B	0.00047	The detected levels are equal to or less than the detected level in the Method Blank.
Method Blank	Method Blank	1,4 Dichlorobenzene	0.0016		0.00047	NA
03SWRC598	Baseline	1,4-Dichlorobenzene	0.0015		0.00047	NA
03SWRC598	Baseline	2-Butanone (MEK)	0.049		1.9	NA
Method Blank	Method Blank	Arsenic	0.2		0.000045	NA
Method Blank	Method Blank	Arsenic	0.2		0.000045	NA
03SWRC610	NE wall	Barium	0.1		2.6	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC613	SE wall #1	Barium	0.1	B	2.6	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC618	SE wall #2	Barium	0.1	B	2.6	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC624	Floor #1	Barium	0.1	B	2.6	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC628	Floor #2	Barium	0.1	B	2.6	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.

Table 2-5
B38 Verification Sample Results - Comparison to Baseline, QA/QC, and EPA Region 6 MSSLs^a

Sample ID	Location	Parameter	Results (mg/L)	Qualifier	EPA Region 6 MSSLs (mg/L)	Comparison Results
03SWRC616	SE wall #2	bis (2-Ethylhexyl) phthalate	0.7		0.0048	A surrogate recovery rate was outside of the laboratories QC criteria, suggesting matrix interference problems that likely resulted in either false positive readings or elevated levels. This analytical result will, therefore, be discarded from further comparison.
03SWRC604	NW wall #2	bis (2-Ethylhexyl) phthalate	0.17	2	0.0048	A surrogate recovery rate was outside of the laboratories QC criteria, suggesting matrix interference problems that likely resulted in either false positive readings or elevated levels. This analytical result will, therefore, be discarded from further comparison.
03SWRC611	SE wall #1	bis (2-Ethylhexyl) phthalate	0.15	2	0.0048	A surrogate recovery rate was outside of the laboratories QC criteria, suggesting matrix interference problems that likely resulted in either false positive readings or elevated levels. This analytical result will, therefore, be discarded from further comparison.
03SWRC597	Baseline	bis (2-Ethylhexyl) phthalate	0.13	2	0.0048	NA
03SWRC600	NW wall #1	bis (2-Ethylhexyl) phthalate	0.015		0.0048	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC614	Duplicate	bis (2-Ethylhexyl) phthalate	0.014		0.0048	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC619	SW wall	bis (2-Ethylhexyl) phthalate	0.014	2	0.0048	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC626	Floor #2	bis (2-Ethylhexyl) phthalate	0.013		0.0048	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC598	Baseline	Bromodichloromethane	0.02		0.00018	NA
03SWRC598	Baseline	Bromoform	0.0022		0.0085	NA
03SWRC608	NE wall	Butylbenzylphthalate	0.0086	2	7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC604	NW wall #2	Butylbenzylphthalate	0.005	2	7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC622	Floor #1	Butylbenzylphthalate	0.005	2	7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC626	Floor #2	Butylbenzylphthalate	0.0039		7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.

Table 2-5
B38 Verification Sample Results - Comparison to Baseline, QA/QC, and EPA Region 6 MSSLS^a

Sample ID	Location	Parameter	Results (mg/L)	Qualifier	EPA Region 6 MSSLS (mg/L)	Comparison Results
03SWRC600	NW wall #1	Butylbenzylphthalate	0.0034		7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC616	SE wall #2	Butylbenzylphthalate	0.0034		7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC619	SW wall	Butylbenzylphthalate	0.0024	2	7.3	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC598	Baseline	Chlorodibromomethane	0.0089		0.00013	NA
03SWRC598	Baseline	Chloroform	0.042		0.00016	NA
03SWRC618	SE wall #2	Chromium	0.06	B	0.11	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC624	Floor #1	Chromium	0.06	B	0.11	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC628	Floor #2	Chromium	0.06	B	0.11	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC629	Duplicate	Chromium	0.06	B	0.11	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC613	SE wall #1	Chromium	0.05	B	0.11	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC621	SW wall	Chromium	0.05	B	0.11	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC625	Equipment Blank	Chromium	0.05	B	0.11	NA
Method Blank	Method Blank	Chromium	0.04		0.11	NA
Method Blank	Method Blank	Chromium	0.04		0.11	NA
03SWRC622	Floor #1	Diethylphthalate	0.036	2	29	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC597	Baseline	Diethylphthalate	0.0054	2	29	NA
03SWRC626	Floor #2	Diethylphthalate	0.0017		29	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC604	NW wall #2	Diethylphthalate	0.0011	2	29	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC611	SE wall #1	Diethylphthalate	0.001	2	29	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC626	Floor #2	di-n-Butylphthalate	0.048		3.7	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.

Table 2-5
B38 Verification Sample Results - Comparison to Baseline, QA/QC, and EPA Region 6 MSSLS^a

Sample ID	Location	Parameter	Results (mg/L)	Qualifier	EPA Region 6 MSSLS (mg/L)	Comparison Results
03SWRC622	Floor #1	di-n-Butylphthalate	0.046	2	3.7	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC619	SW wall	di-n-Butylphthalate	0.036	2	3.7	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC600	NW wall #1	di-n-Butylphthalate	0.032		3.7	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC614	Duplicate	di-n-Butylphthalate	0.027		3.7	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC615	Equipment Blank	di-n-Butylphthalate	0.027		3.7	NA
03SWRC608	NE wall	di-n-Butylphthalate	0.025	2	3.7	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC616	SE wall #2	di-n-Butylphthalate	0.025		3.7	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC604	NW wall #2	di-n-Butylphthalate	0.024	2	3.7	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC611	SE wall #1	di-n-Butylphthalate	0.023	2	3.7	The detected levels are equal to or less than the detected level in the Equipment Blank sample.
03SWRC597	Baseline	di-n-Butylphthalate	0.0031	2	3.7	NA
03SWRC608	NE wall	di-n-Octylphthalate	0.096	2	0.73	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC622	Floor #1	di-n-Octylphthalate	0.053	2	0.73	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC611	SE wall #1	di-n-Octylphthalate	0.03	2	0.73	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC626	Floor #2	di-n-Octylphthalate	0.018		0.73	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample, however it is below the MSSL.
03SWRC597	Baseline	di-n-Octylphthalate	0.005	2	0.73	NA
03SWRC616	SE wall #2	di-n-Octylphthalate	0.0044		0.73	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC604	NW wall #2	di-n-Octylphthalate	0.002	2	0.73	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC619	SW wall	di-n-Octylphthalate	0.0011	2	0.73	The detected levels are equal to or less than the detected level in the Baseline sample.
03SWRC600	NW wall #1	di-n-Octylphthalate	0.001		0.73	The detected levels are equal to or less than the detected level in the Baseline sample.

Table 2-5
B38 Verification Sample Results - Comparison to Baseline, QA/QC, and EPA Region 6 MSSLS^a

Sample ID	Location	Parameter	Results (mg/L)	Qualifier	EPA Region 6 MSSLS (mg/L)	Comparison Results
03SWRC628	Floor #2	Lead	0.09		0.015	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC629	Duplicate	Lead	0.09		0.015	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
03SWRC624	Floor #1	Lead	0.08	B	0.015	The detected level cannot be ruled out due to a detected level in a baseline or QA/QC sample and is above the MSSL. This sample location must be forwarded to swipe sampling.
Method Blank	Method Blank	Styrene	0.0011		1.6	NA

a. Drinking Water Medium-Specific Screening Levels.

Qualifier

B = Analyte detected in Method Blank.

2 = A surrogate recovery rate was outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.

Definition of Acronyms

EPA = U.S. Environmental Protection Agency.

ID = identification.

mg/L = milligram per liter.

MSSL = Medium-Specific Screening Level.

NA = not applicable.

QA/QC = quality assurance/quality control.

Table D-1
Range of Reporting Limits for Verification Samples

Analytical Method	Analyte	Minimum RL (µg/L) ^a	Maximum RL (µg/L) ^a	DL (ppm or ppb) ^b	Minimum RQ (ppm or ppb) ^c	Maximum RQ (ppm or ppb) ^c	EPA Region 6 MSSL (µg/L)
Total Metals (Method 6010A)	Arsenic	100	100	0	0.00089	0.0608	0.045
	Barium	100	100	0	0.00951	0.13778	2,600
	Cadmium	20	20	0	0 ^d	0.12515	18
	Chromium	20	20	0	0 ^d	0.0644	110
	Lead	50	50	0	0 ^d	0.8874	15
	Selenium	50	50	0	0 ^d	0.01673	180
	Silver	40	40	0	0 ^d	0.00954	180
7000 Series	Lead	100	100	0	0 ^d	0 ^d	15
Mercury (Method 7470)	Mercury	0.2	0.2	0	0 ^d	0.00009	11
Volatile Organic Compounds (Method 8260B)	1,1,1,2-Tetrachloroethane	1	1	0.062	0	0.43	0.43
	1,1,1-Trichloroethane	1	1	0.08	0 ^d	0.31	840
	1,1,2,2-Tetrachloroethane	1	1	0.328	0	0.96	0.055
	1,1,2-Trichloroethane	1	1	0.19	0	0.51	0.2
	1,1-Dichloroethane	1	1	0.07	0	0.22	810
	1,1-Dichloroethene	1	1	0.17	0.38	2.38	340
	1,2,3-Trichloropropane	1	1	0.372	0	0.74	0.0016
	1,2,4-Trimethylbenzene	1	1	0.442	0 ^d	0.94	12
	1,2-Dibromoethane (EDB)	1	1	0.092	0	0.58	0.00076
	1,2-Dichlorobenzene	1	1	0.48	0	0.41	61
	1,2-Dichloroethane (EDC)	1	1	0.06	0.23	17.27	0.12
	1,2-Dichloropropane	1	1	0.122	0	1.91	0.16
	1,3,5-Trimethylbenzene	1	1	0.37	0 ^d	0.5	12
	1,3-Dichlorobenzene	1	1	0.488	0	2.2	18
	1,4-Dichloro-2-butene	10	10	0.098	0	6.73	0.0012
	1,4-Dichlorobenzene	1	1	0.506	0.26	8.22	0.47
	2-Butanone (MEK)	5	5	0.554	0 ^d	245.11	7,100
	2-Hexanone (MBK)	5	5	0.218	0.48	3.54	n/a
	4-Methyl-2-pentanone (MIBK)	5	5	0.272	0	22.39	2,000
	Acetone	10	10	0.59	0 ^d	20.05	33,000
	Acrolein	20	20	1.224	1.55	8.82	0.042
	Acrylonitrile	20	20	0.3	0	2.01	0.039
	Benzene	1	1	0.104	0.09	2	0.35
	Bromodichloromethane	1	1	0	0	101.34	0.18
	Bromoform	1	1	0.044	0	10.79	8.5
	Bromomethane	5	5	0.186	0 ^d	0 ^d	8.7
	Carbon disulfide	5	5	0.336	0.96	8.89	1000
	Carbon tetrachloride	1	1	0.148	0 ^d	0.31	0.17
	Chlorobenzene	1	1	0.192	0	2.91	110
	Chlorodibromomethane	1	1	0.072	0	44.51	0.13
	Chloroethane	5	5	0.174	0 ^d	10.7	3.9
	Chloroform	1	1	0.48	0	210.75	75
Chloromethane	5	5	0.128	0 ^d	7.38	1.5	
cis-1,2-Dichloroethene	1	1	0.078	0	0.45	61	
cis-1,3-Dichloropropene	1	1	0	0	0.4	0.4	
Dibromomethane	1	1	0.054	0	1.06	61	

Table D-1
Range of Reporting Limits for Verification Samples

Analytical Method	Analyte	Minimum RL (µg/L) ^a	Maximum RL (µg/L) ^a	DL (ppm or ppb) ^b	Minimum RQ (ppm or ppb) ^c	Maximum RQ (ppm or ppb) ^c	EPA Region 6 MSSL (µg/L)
Volatile Organic Compounds (Method 8260B)	Ethyl methacrylate	5	5	0.092	0	16.13	550
	Ethylbenzene	1	1	0.242	0.46	1.25	1,300
	Freon 113	5	5	0.204	0 ^d	0.4	n/a
	Freon 12	10	10	0.198	0	0.44	n/a
	Methyl t-butyl ether (MTBE)	1	1	0.184	0	0.19	20
	Methylene chloride	10	10	1.046	1.3	3.29	4.3
	Naphthalene	5	5	1.554	0.29	1.18	6.2
	o-Xylene	1	1	0.218	0.1	2.98	1,400
	p/m-Xylenes	2	2	0.546	0.65	1.41	10
	Styrene	1	1	0.272	0	3.83	1,600
	t-1,2-Dichloroethene	1	1	0.16	0	0.64	120
	t-1,3-Dichloropropene	1	1	0.079	0	0.39	0.4
	Tetrachloroethene (PCE)	1	1	0.318	0	0.57	0.1
	Toluene	1	1	0.186	0 ^d	4.45	720
	Trichloroethene	1	1	0.196	0	2.08	0.028
	Trichlorofluoromethane	5	5	0.246	0	0.24	1,300
	Vinyl acetate	5	5	0.094	0.26	1.27	410
	Vinyl chloride	5	5	0.114	0	0.36	0.043
Semivolatile Organic Compounds (Method 8270B)	1,2,4-Trichlorobenzene	1	11	0.08	0	0	8.2
	1,2-Dichlorobenzene	1	1	0.19	0	0	61
	1,3-Dichlorobenzene	1	1	0.16	0	0	18
	1,4-Dichlorobenzene	1	1	0	0	0	0.47
	1-Methylnaphthalene	1	11	0.07	0	0.26	n/a
	2,3,4,6-Tetrachlorophenol	5	5	0.29	0	0.01	1,100
	2,4,5-Trichlorophenol	5	5	0.28	0	0.12	3,700
	2,4,6-Trichlorophenol	5	5	0.3	0	0.24	6.1
	2,4-Dichlorophenol	5	55	0.66	0	1.48	110
	2,4-Dimethylphenol	1	11	0.19	0	0.05	730
	2,4-Dinitrophenol	10	10	0	0	61.03	73
	2,4-Dinitrotoluene	5	5	0.38	0	0.38	73
	2,6-Dinitrotoluene	5	5	0.27	0	1.02	37
	2-Chloronaphthalene	1	1	0.13	0	0.01	490
	2-Chlorophenol	1	1	0.18	0	0.06	30
	2-Methylnaphthalene	1	11	0.08	0	0.24	n/a
	2-Methylphenol	1	1	0.18	0.02	0.32	1,800
	2-Nitroaniline	5	5	0.16	0.01	0.77	1.1
	2-Nitrophenol	5	55	0.23	0	0.05	n/a
	3,3-Dichlorobenzidine	10	10	0.17	0^d	0.29	0.15
	3+4 Methylphenol	1	1	0.16	0	0.39	180
	3-Nitroaniline	5	5	0.3	0 ^d	1.6	n/a
	4,6-Dinitro-2-methylphenol	10	10	0.62	0	5.71	n/a
4-Bromophenyl-phenylether	1	1	0.2	0	0.81	n/a	
4-Chloro-3-methylphenol	5	55	0.81	0	0.2	n/a	
4-Chloroaniline	5	55	0.52	0 ^d	2	150	
4-Chlorophenyl-phenylether	1	1	0.15	0	0	n/a	

Table D-1
Range of Reporting Limits for Verification Samples

Analytical Method	Analyte	Minimum RL (µg/L) ^a	Maximum RL (µg/L) ^a	DL (ppm or ppb) ^b	Minimum RQ (ppm or ppb) ^c	Maximum RQ (ppm or ppb) ^c	EPA Region 6 MSSL (µg/L)
Semivolatile Organic Compounds (Method 8270B)	4-Nitroaniline	5	5	0.32	0	0.25	n/a
	4-Nitrophenol	10	10	0	0.03	1.38	290
	Acenaphthene	1	1	0.1	0	0.02	370
	Acenaphthylene	1	1	0.12	0	0.06	n/a
	Aniline	10	10	0.17	0	0.34	12
	Anthracene	1	1	0.07	0	0.09	1800
	Azobenzene&1,2-Diphenylhydrazine	1	1	0.1	0.01	0.15	0.084
	Benzo(a)anthracene	1	1	0.11	0	0.17	0.092
	Benzo(a)pyrene	1	1	0.13	0	0.03	0.0092
	Benzo(b&k)fluoranthene	1	1	0.144	0	0.02	0.092
	Benzo(g,h,i)perylene	1	1	0.06	0	0.01	n/a
	Benzoic acid	25	275	0	0	8.53	150,000
	Benzyl alcohol	5	5	0.21	0.12	7.84	11,000
	bis(2-Chloroethoxy)methane	1	11	0.14	0	0.42	n/a
	bis(2-Chloroethyl)ether	1	1	0.05	0	0.45	0.0098
	bis(2-Chloroisopropyl)ether	1	1	0.18	0	0.1	0.27
	bis(2-Ethylhexyl)phthalate	5	510	4.32	0.37	306.16	4.8
	Butylbenzylphthalate	1	1	0.13	0.26	4.21	7,300
	Chrysene	1	1	0.09	0	0.18	9.2
	Dibenz(a,h)anthracene	1	1	0.09	0	0.01	0.0092
	Dibenzofuran	1	1	0.12	0	0.33	12
	Diethylphthalate	1	1	0.08	0.08	16.66	29,000
	Dimethylphthalate	1	1	0.09	0	0.07	370,000
	di-n-Butylphthalate	1	1	0.12	1.49	23.77	3,700
	di-n-Octylphthalate	1	1	0.33	0.08	47.2	1,500
	Fluoranthene	1	1	0.1	0.01	0.38	1,500
	Fluorene	1	1	0.15	0	0.05	240
	Hexachlorobenzene	10	10	0.29	0	0	0.042
	Hexachlorobutadiene	10	110	0.44	0	0	0.86
	Hexachlorocyclopentadiene	10	10	0.2	0	0	220
	Hexachloroethane	5	5	0.26	0	0.71	4.8
	Indeno(1,2,3-cd)pyrene	1	1	0.1	0	0	0.092
	Isophorone	1	11	0.07	0	0.31	71
	Naphthalene	1	11	0.09	0	0.14	6.2
	Nitrobenzene	1	11	0.08	0	0.42	3.4
	n-Nitroso-dimethyl-amine	10	10	0	0.02	0.67	0.0013
	n-Nitroso-di-n-propylamine	1	1	0.16	0	0.28	0.0096
	n-Nitrosodiphenylamine	1	1	0.02	0	0.1	14
	Pentachlorophenol	10	10	0.74	0	4.32	0.56
	Phenanthrene	1	1	0.04	0	0.1	n/a
	Phenol	10	10	0.16	0	1.07	11,000
	Pyrene	1	1	0	0	0.04	180
	Pyridine	10	10	0	0	0.01	37

Table D-1
Range of Reporting Limits for Verification Samples

Analytical Method	Analyte	Minimum RL (µg/L) ^a	Maximum RL (µg/L) ^a	DL (ppm or ppb) ^b	Minimum RQ (ppm or ppb) ^c	Maximum RQ (ppm or ppb) ^c	EPA Region 6 MSSL (µg/L)
<p>a. Reporting limits (RLs) are 3 to 5 times the method detection limit (the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the value is above zero) and are sample-specific (i.e., reporting limit multiplied by the dilution factor). Treating results as nondetect at the RL sets the acceptable rate of false negatives at <1 percent.</p> <p>b. Detection Limits (DLs) are the minimum concentration of a substance that can be measured. Values for DLs were obtained from analytical data packages provided by the analytical laboratory. DLs for metals and semivolatile organic compounds are expressed in parts per million (ppm), and DLs for volatile organic compounds are expressed in parts per billion (ppb).</p> <p>c. Raw quantity (RQ) is the an estimated concentration of a substance detected above the detection limit. Ranges for RQ were obtained from analytical data packages provided by the analytical laboratory. RQs for metals and semivolatile organic compounds are expressed in parts per million (ppm), and RQs for volatile organic compounds are expressed in parts per billion (ppb).</p> <p>d. Raw quantities that are negative numbers are expressed as 0 within this table.</p> <p>µg/L = micrograms per liter ppm = parts per million ppb = parts per billion</p>							