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Los Alamos
NATIONAL LABORATORY
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Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX: (505) 667-5224

Date: June 25, 2009
Refer To: ENV-RCRA-09-112
LA-UR: 09-03826

Mr. William C. Olson, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2250
1190 St. Francis Dr.
P.O. Box 2611
Santa Fe, New Mexico 87502

Dear Mr. Olson:

SUBJECT: NOTICE OF INTENT TO DISCHARGE, SUBGRADE CARBON FILTERS

Enclosed is a Notice of Intent to Discharge (NOI) that has been prepared for submittal to the New Mexico Environment Department (NMED) pursuant to 20 NMAC 6.2.1201of the New Mexico Water Quality Control Commission (NMWQCC) Regulations. This NOI is being submitted to provide coverage for the discharge of groundwater from three springs following treatment with carbon filtration. The capture and treatment of spring flow is for the remediation of high explosives from the alluvial system in the Water Canyon watershed. This work is being performed as specified in the New Mexico Environment Department-approved Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1 (July 2007). An electronic copy of the Corrective Measures Implementation Plan has been provided on the enclosed CD.

Please contact me at (505) 667-7969 if you have questions or require additional information.

Sincerely,

Bob Beers
Water Quality & RCRA Group

BB/lm

31726

Enclosures: a/s

Cy: Glenn Saums, NMED/SWQB, Santa Fe, NM, (NOI)
James Bearzi, NMED/HWB, Santa Fe, NM, (NOI)
Gene Turner, LASO-EO, (NOI), A316
Hai Shen, LASO-EO, (NOI), A316
Steve Yanicak, LASO-GOV, (NOI), J993
Michael B. Mallory, PADOPS, w/o enc., A102
Chris Cantwell, ADESHQ, w/o enc., K491
Mike Saladen, ENV-RCRA, (NOI), K490
Don Hickmott, EES-14, (NOI), D462
John McCann, ADEP-PM, (NOI), M992
Randy Johnson, ENV-EAQ, (NOI), M992
ENV-DO, File, w/o enc., J978
ENV-RCRA, File, w/enc., K490
IRM-RMMSO, w/enc., A150

NOI

Enclosure #1
Carbon Filtration Units at Martin Spring

Enclosure #2
Carbon Filtration Units at SWSC Spring

Enclosure #3
Carbon Filtration Units at Burning Ground Spring

Enclosure # 4
Letter to NMED

1. Name and mailing address of person proposing to discharge:

Los Alamos National Laboratory
PO Box 1663, Mail Stop K490
Los Alamos, NM 87545

Work Phone: 505-667-7969
Cell/Home Phone: NA
Fax: 505-665-9344

Attention: Robert Beers
Water Quality & RCRA Group

Email: bbeers@lanl.gov

2. Name of facility:
Los Alamos National Laboratory (LANL or the Laboratory)

3. Physical location of discharge (if applicable, give street address, township, range, section, distance from closest town or landmark, directions to facility, location map):
See Location Map, Figure 1.1-1, on Page 37 of the Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1, on the enclosed CD.

4. Type of operation generating the discharge (e.g., truck wash, food processing plant, restaurant, etc.):
The discharges result from the treatment of groundwater for the remediation of high explosives. This work is being performed as specified in the New Mexico Environment Department-approved Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1.

5. Source(s) of the discharge. Describe how the wastewater, sludge, or other discharges processed and/or disposed at your facility are generated. Identify all sources. Attach additional pages if needed:
In 2001, the Laboratory installed pilot carbon filters at Martin Spring (Martin Spring Canyon) to test the feasibility of removing high-explosives from spring water using a commercially available stormwater treatment BMP. The pilot filters have operated so successfully that the Laboratory intends to expand their use at two additional springs, SWSC and Burning Ground Springs in Cañon de Valle. See the detailed description on Page 17 of the Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1.

6. Expected contaminants in the discharge (e.g., nitrate-nitrogen, metals, organic compounds, salts, etc.) Include estimated concentration if known, and copies of results of laboratory analyses, if available:
Water quality data is presented in Enclosures 1, 2, and 3 for Martin Spring, SWSC Spring, and Burning Ground Spring, respectively. The data show that no contaminants exceed NMWQCC 3103 standards with the exception of the following:
(1) boron concentrations at Martin Spring of about 1.3 mg/L in 3/09 exceeded the standard of 1 mg/L.
(2) iron concentrations at SWSC Spring of about 1.03 mg/L in 4/08 exceeded the standard of 1 mg/L.
Low concentrations of VOCs below NMWQCC standards have been detected in all three springs. RDX is present in all three springs at concentrations greater than the EPA cancer risk level. The remedial objective for the carbon filters is to treat RDX present in the spring waters to levels below the 10^{-5} risk-based standard for RDX of 6.1 µg/L.
In May 2009, the Laboratory submitted a "Contained-In" request to the NMED-HWB for listed contaminants detected in spring and alluvial waters since 1995 (Enclosure 4). The HWB's response to the "Contained-In" request is pending.

7. Describe all components of wastewater processing, treatment, storage, and disposal system (e.g., grease interceptor, lagoon, septic tank/leachfield, etc.) Include sizes, site layout map, plans and specifications, etc. if available:
The subgrade carbon filtration system consists of a collection weir box, subgrade piping, and a subgrade carbon filter to collect, treat, and discharge treated water. See design drawings C-1002, C-1004, C3001, C-3002, C-5001, C-5002, and M-5001 of the Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1, on the enclosed CD for details. The current design specifies a surface discharge of treated water from the carbon filters directly to the respective watercourse for each spring. This component of the carbon filtration system is being reevaluated and the alternate option of a subsurface discharge, via a leach field, for example, is under consideration. The NMED-GWQB will be informed of all design changes prior to construction.

8. Estimated maximum daily discharge volume in gallons per day (or other units):
SWSC Spring: 2-10 gpm; Burning Ground Spring: 4-20 gpm; Martin Spring: 1-3 gpm

9. Estimated depth to ground water (ft): <5 ft.

Signature: A R Grieggs **Title:** Group Leader

Printed name: Anthony R. Grieggs **Date:** 6/24/09

Please return this form to:
NMED Ground Water Quality Bureau
P.O. Box 5469
Santa Fe, New Mexico 87502-5469

Telephone: 505-827-2900
Fax: 505-827-2965

ENCLOSURE #1

Table 1.0. All Analytical Results, NMWQCC Regulation 3103 Contaminants (non-organic), Martin Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Martin Spring	3/24/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
Martin Spring	10/8/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
Martin Spring	4/2/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	UJ		GELC
Martin Spring	3/24/09	Al	SW-846:6010B	F		214	ug/L	68				GELC
Martin Spring	10/8/08	Al	SW-846:6010B	F		104	ug/L	68	J	J		GELC
Martin Spring	4/2/08	Al	SW-846:6010B	F		1250	ug/L	68				GELC
Martin Spring	3/24/09	As	SW-846:6020	F	<	6.61	ug/L	1.5		U		GELC
Martin Spring	10/8/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
Martin Spring	4/2/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
Martin Spring	3/24/09	B	SW-846:6010B	F		1270	ug/L	10				GELC
Martin Spring	10/8/08	B	SW-846:6010B	F		1230	ug/L	10				GELC
Martin Spring	4/2/08	B	SW-846:6010B	F		892	ug/L	10				GELC
Martin Spring	3/24/09	Ba	SW-846:6010B	F		160	ug/L	1				GELC
Martin Spring	10/8/08	Ba	SW-846:6010B	F		166	ug/L	1				GELC
Martin Spring	4/2/08	Ba	SW-846:6010B	F		135	ug/L	1				GELC
Martin Spring	3/24/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Martin Spring	10/8/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Martin Spring	4/2/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Martin Spring	3/24/09	Cl(-1)	EPA:300.0	F		24.4	mg/L	0.13				GELC
Martin Spring	10/8/08	Cl(-1)	EPA:300.0	F		20.5	mg/L	0.13				GELC
Martin Spring	4/2/08	Cl(-1)	EPA:300.0	F		19.2	mg/L	0.066				GELC
Martin Spring	3/24/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Martin Spring	10/8/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Martin Spring	4/2/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Martin Spring	3/24/09	Cr	SW-846:6020	F		2.4	ug/L	1.5	J	J		GELC
Martin Spring	10/8/08	Cr	SW-846:6020	F		1.7	ug/L	1.5	J	J		GELC
Martin Spring	4/2/08	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U		GELC
Martin Spring	3/24/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Martin Spring	10/8/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Martin Spring	4/2/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Martin Spring	3/24/09	F(-1)	EPA:300.0	F		0.611	mg/L	0.033				GELC
Martin Spring	10/8/08	F(-1)	EPA:300.0	F		0.457	mg/L	0.033				GELC
Martin Spring	4/2/08	F(-1)	EPA:300.0	F		0.349	mg/L	0.033				GELC
Martin Spring	3/24/09	Fe	SW-846:6010B	F		95.3	ug/L	25	J	J		GELC
Martin Spring	10/8/08	Fe	SW-846:6010B	F		60.6	ug/L	25	J	J		GELC
Martin Spring	4/2/08	Fe	SW-846:6010B	F		612	ug/L	25				GELC
Martin Spring	3/24/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC

Table 1.0. All Analytical Results, NMWQCC Regulation 3103 Contaminants (non-organic), Martin Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Martin Spring	10/8/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC
Martin Spring	4/2/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.03	U	U		GELC
Martin Spring	3/24/09	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Martin Spring	10/8/08	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Martin Spring	4/2/08	Mn	SW-846:6010B	F		8.5	ug/L	2	J	J		GELC
Martin Spring	3/24/09	Mo	SW-846:6020	F		2.93	ug/L	0.1				GELC
Martin Spring	10/8/08	Mo	SW-846:6020	F		2.7	ug/L	0.1		J		GELC
Martin Spring	4/2/08	Mo	SW-846:6020	F		2.2	ug/L	0.1				GELC
Martin Spring	3/24/09	NO3+NO2-N	EPA:353.2	F		3.34	mg/L	0.1				GELC
Martin Spring	10/8/08	NO3+NO2-N	EPA:353.2	F		3.04	mg/L	0.05		J		GELC
Martin Spring	4/2/08	NO3+NO2-N	EPA:353.2	F		1.69	mg/L	0.05				GELC
Martin Spring	3/24/09	Ni	SW-846:6020	F		1.01	ug/L	0.5	J	J		GELC
Martin Spring	10/8/08	Ni	SW-846:6020	F		0.83	ug/L	0.5	J	J		GELC
Martin Spring	4/2/08	Ni	SW-846:6020	F		0.9	ug/L	0.5	J	J		GELC
Martin Spring	3/24/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
Martin Spring	10/8/08	Pb	SW-846:6020	F	<	1.1	ug/L	0.5	J	U		GELC
Martin Spring	4/2/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
Martin Spring	3/24/09	SO4(-2)	EPA:300.0	F		17.8	mg/L	0.1		J-		GELC
Martin Spring	10/8/08	SO4(-2)	EPA:300.0	F		16.8	mg/L	0.1				GELC
Martin Spring	4/2/08	SO4(-2)	EPA:300.0	F		13.1	mg/L	0.1				GELC
Martin Spring	3/24/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Martin Spring	10/8/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Martin Spring	4/2/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Martin Spring	3/24/09	TDS	EPA:160.1	F		216	mg/L	2.4				GELC
Martin Spring	10/8/08	TDS	EPA:160.1	F		215	mg/L	2.4				GELC
Martin Spring	4/2/08	TDS	EPA:160.1	F		185	mg/L	2.4				GELC
Martin Spring	3/24/09	U	SW-846:6020	F		2.62	ug/L	0.05				GELC
Martin Spring	10/8/08	U	SW-846:6020	F		1.5	ug/L	0.05				GELC
Martin Spring	4/2/08	U	SW-846:6020	F		0.42	ug/L	0.05				GELC
Martin Spring	3/24/09	Zn	SW-846:6010B	F	<	3.46	ug/L	2	J	U		GELC
Martin Spring	10/8/08	Zn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Martin Spring	4/2/08	Zn	SW-846:6010B	F		3.5	ug/L	2	J	J		GELC
Martin Spring	3/24/09	pH	EPA:150.1	F		7.22	SU	0.01	H	J-		GELC
Martin Spring	10/8/08	pH	EPA:150.1	F		7.19	SU	0.01	H	J-		GELC
Martin Spring	4/2/08	pH	EPA:150.1	F		7.48	SU	0.01	H	J-		GELC

Table 2.0. Detections of High-Explosives, Martin Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
Martin Spring	1/30/07	59229-75-3	2,6-Diamino-4-nitrotoluene	SW-846:8321A_MOD	UF		0.191	ug/L	0.169	J		GELC	
Martin Spring	3/24/09	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.988	ug/L	0.61	J	J	GELC	
Martin Spring	10/8/08	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.808	ug/L	0.61	J	J	GELC	
Martin Spring	4/2/08	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.782	ug/L	0.61	J	J	GELC	
Martin Spring	3/24/09	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.97	ug/L	0.13			GELC	
Martin Spring	10/8/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		2.03	ug/L	0.13			GELC	
Martin Spring	4/2/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.13	ug/L	0.13			GELC	
Martin Spring	10/19/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.67	ug/L	0.13			GELC	
Martin Spring	5/9/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.96	ug/L	0.13			GELC	FD
Martin Spring	5/9/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.9	ug/L	0.13			GELC	
Martin Spring	1/30/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.53	ug/L	0.13			GELC	
Martin Spring	7/28/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.54	ug/L	0.13			GELC	
Martin Spring	7/28/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.878	ug/L	0.13			GELC	FD
Martin Spring	3/29/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		2.2	ug/L	0.13		J-, J+	GELC	
Martin Spring	11/14/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.863	ug/L	0.13		J-	GELC	
Martin Spring	8/25/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.898	ug/L			J	GELC	
Martin Spring	4/14/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.329	ug/L	0.33	J	J	GEL	
Martin Spring	1/18/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.117	ug/L	0.09	J	J	GEL	
Martin Spring	3/24/09	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.67	ug/L	0.12			GELC	
Martin Spring	10/8/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.73	ug/L	0.12			GELC	
Martin Spring	4/2/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.05	ug/L	0.12			GELC	
Martin Spring	10/19/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.47	ug/L	0.117			GELC	
Martin Spring	5/9/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.53	ug/L	0.117			GELC	FD
Martin Spring	5/9/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.66	ug/L	0.117			GELC	
Martin Spring	1/30/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.24	ug/L	0.117			GELC	
Martin Spring	7/28/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.772	ug/L	0.117			GELC	FD
Martin Spring	7/28/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.28	ug/L	0.117			GELC	
Martin Spring	3/29/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.93	ug/L	0.117		J+, J-	GELC	
Martin Spring	11/14/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		1.36	ug/L	0.117			GELC	
Martin Spring	8/25/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.798	ug/L			J	GELC	
Martin Spring	4/14/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.548	ug/L	0.33	J	J	GEL	
Martin Spring	3/24/09	DNX	DNX	SW-846:8330	UF		0.29	ug/L	0.069	JP	J	STSL	
Martin Spring	5/9/07	DNX	DNX	SW-846:8330	UF		0.37	ug/L	0.069	J		STSL	
Martin Spring	5/9/07	DNX	DNX	SW-846:8330	UF		0.24	ug/L	0.069	JP		STSL	FD
Martin Spring	1/30/07	DNX	DNX	SW-846:8330	UF		0.21	ug/L	0.069	J	J, J+	STSL	
Martin Spring	11/14/05	606-20-2	Dinitrotoluene[2,6-]	SW-846:8321A_MOD	UF		0.09	ug/L	0.078	J		GELC	
Martin Spring	3/24/09	2691-41-0	HMX	SW-846:8321A_MOD	UF		16.2	ug/L	1.3		J	GELC	
Martin Spring	10/8/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		16.8	ug/L	1		J	GELC	
Martin Spring	4/2/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		13.3	ug/L	1.3		J	GELC	
Martin Spring	10/19/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		19.8	ug/L	1.3		J, J-	GELC	

Table 2.0. Detections of High-Explosives, Martin Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
Martin Spring	5/9/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		18.4	ug/L	0.519		J+	GELC	FD
Martin Spring	5/9/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		18.4	ug/L	0.519		J+	GELC	
Martin Spring	1/30/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		21.1	ug/L	2.6		J+	GELC	
Martin Spring	3/29/06	2691-41-0	HMX	SW-846:8321A_MOD	UF		15.9	ug/L	2.6		J-, J+	GELC	
Martin Spring	11/14/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		15.6	ug/L	1.3			GELC	
Martin Spring	8/25/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		31.7	ug/L			J, J+	GELC	
Martin Spring	4/14/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		8.17	ug/L	0.42		J	GEL	
Martin Spring	1/18/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		0.976	ug/L	0.1		J-	GEL	
Martin Spring	3/24/09	MNX	MNX	SW-846:8330	UF		0.41	ug/L	0.091	J	J	STSL	
Martin Spring	10/8/08	MNX	MNX	SW-846:8330	UF		0.57	ug/L	0.091		J	STSL	
Martin Spring	4/2/08	MNX	MNX	SW-846:8330	UF		0.66	ug/L	0.091	P	J	STSL	
Martin Spring	10/19/07	MNX	MNX	SW-846:8330	UF		1.1	ug/L	0.091			STSL	
Martin Spring	5/9/07	MNX	MNX	SW-846:8330	UF		0.85	ug/L	0.091	P	J	STSL	FD
Martin Spring	5/9/07	MNX	MNX	SW-846:8330	UF		0.91	ug/L	0.091	P	J	STSL	
Martin Spring	1/30/07	MNX	MNX	SW-846:8330	UF		0.56	ug/L	0.091		J	STSL	
Martin Spring	3/24/09	121-82-4	RDX	SW-846:8321A_MOD	UF		102	ug/L	1.6		J	GELC	
Martin Spring	10/8/08	121-82-4	RDX	SW-846:8321A_MOD	UF		114	ug/L	1.3			GELC	
Martin Spring	4/2/08	121-82-4	RDX	SW-846:8321A_MOD	UF		89.1	ug/L	1.6		J	GELC	
Martin Spring	10/19/07	121-82-4	RDX	SW-846:8321A_MOD	UF		117	ug/L	1.62		J	GELC	
Martin Spring	5/9/07	121-82-4	RDX	SW-846:8321A_MOD	UF		135	ug/L	2.6		J, J+	GELC	FD
Martin Spring	5/9/07	121-82-4	RDX	SW-846:8321A_MOD	UF		137	ug/L	2.6		J, J+	GELC	
Martin Spring	1/30/07	121-82-4	RDX	SW-846:8321A_MOD	UF		130	ug/L	3.25		J+	GELC	
Martin Spring	7/28/06	121-82-4	RDX	SW-846:8321A_MOD	UF		135	ug/L	3.25			GELC	
Martin Spring	7/28/06	121-82-4	RDX	SW-846:8321A_MOD	UF		111	ug/L	3.25		J+	GELC	FD
Martin Spring	3/29/06	121-82-4	RDX	SW-846:8321A_MOD	UF		181	ug/L	3.25		J, J-	GELC	
Martin Spring	11/14/05	121-82-4	RDX	SW-846:8321A_MOD	UF		118	ug/L	1.62			GELC	
Martin Spring	8/25/05	121-82-4	RDX	SW-846:8321A_MOD	UF		76.9	ug/L			J	GELC	
Martin Spring	4/14/05	121-82-4	RDX	SW-846:8321A_MOD	UF		45.6	ug/L	0.33			GEL	
Martin Spring	1/18/05	121-82-4	RDX	SW-846:8321A_MOD	UF		9.22	ug/L	0.1		J-	GEL	
Martin Spring	3/24/09	TNX	TNX	SW-846:8330	UF		0.2	ug/L	0.082	JP	J	STSL	
Martin Spring	10/19/07	TNX	TNX	SW-846:8330	UF		1.1	ug/L	0.082			STSL	
Martin Spring	5/9/07	TNX	TNX	SW-846:8330	UF		0.82	ug/L	0.082			STSL	
Martin Spring	5/9/07	TNX	TNX	SW-846:8330	UF		0.78	ug/L	0.082			STSL	FD
Martin Spring	3/24/09	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.93	ug/L	0.1			GELC	
Martin Spring	10/8/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.277	ug/L	0.1	J	J	GELC	
Martin Spring	5/9/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.132	ug/L	0.104	J		GELC	FD
Martin Spring	5/9/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.138	ug/L	0.104	J		GELC	
Martin Spring	1/30/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.133	ug/L	0.104	J		GELC	
Martin Spring	3/29/06	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.118	ug/L	0.104	J	J-	GELC	

Table 3.0. Detections of VOCs and SVOCs[1], Martin Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld Qc Type Code	Anyl Suite Code
Martin Spring	7/28/06	67-64-1	Acetone	SW-846:8260B	UF		2.81	ug/L	1.25	J		GELC	FD	VOA
Martin Spring	7/28/06	67-64-1	Acetone	SW-846:8260B	UF		2.83	ug/L	1.25	J		GELC		VOA
Martin Spring	3/29/06	67-64-1	Acetone	SW-846:8260B	UF		4.48	ug/L	1.25	J		GELC		VOA
Martin Spring	8/25/05	67-64-1	Acetone	SW-846:8260B	UF		3	ug/L		J	J+	GELC		VOA
Martin Spring	4/14/05	67-64-1	Acetone	SW-846:8260B	UF		2.2	ug/L	1.3	J	J	GEL		VOA
Martin Spring	8/25/05	75-05-8	Acetonitrile	SW-846:8260B	UF		9.2	ug/L		J	J+	GELC		VOA
Martin Spring	3/24/09	78-93-3	Butanone[2-]	SW-846:8260B	UF		1.49	ug/L	1.3	J	J	GELC		VOA
Martin Spring	10/19/07	75-15-0	Carbon Disulfide	SW-846:8260B	UF		1.33	ug/L	1.25	J		GELC		VOA
Martin Spring	3/29/06	75-09-2	Methylene Chloride	SW-846:8260B	UF		3.12	ug/L	2	J		GELC		VOA
Martin Spring	10/19/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.386	ug/L	0.25	J		GELC		VOA
Martin Spring	7/28/06	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.356	ug/L	0.25	J		GELC	FD	VOA
Martin Spring	7/28/06	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.428	ug/L	0.25	J		GELC		VOA
Martin Spring	3/29/06	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.293	ug/L	0.25	J		GELC		VOA
Martin Spring	11/14/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.268	ug/L	0.25	J		GELC		VOA
Martin Spring	8/25/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.31	ug/L		J	J+	GELC		VOA
Martin Spring	3/24/09	79-01-6	Trichloroethene	SW-846:8260B	UF		0.333	ug/L	0.25	J	J	GELC		VOA
Martin Spring	10/8/08	79-01-6	Trichloroethene	SW-846:8260B	UF		0.391	ug/L	0.25	J	J	GELC		VOA
Martin Spring	10/19/07	79-01-6	Trichloroethene	SW-846:8260B	UF		0.259	ug/L	0.25	J		GELC		VOA
Martin Spring	1/30/07	79-01-6	Trichloroethene	SW-846:8260B	UF		0.328	ug/L	0.25	J		GELC		VOA
Martin Spring	7/28/06	79-01-6	Trichloroethene	SW-846:8260B	UF		0.286	ug/L	0.25	J		GELC	FD	VOA
Martin Spring	7/28/06	79-01-6	Trichloroethene	SW-846:8260B	UF		0.275	ug/L	0.25	J		GELC		VOA
Martin Spring	3/29/06	79-01-6	Trichloroethene	SW-846:8260B	UF		0.627	ug/L	0.25	J		GELC		VOA
Martin Spring	4/14/05	79-01-6	Trichloroethene	SW-846:8260B	UF		0.39	ug/L	0.25	J	J	GEL		VOA
Martin Spring	1/18/05	79-01-6	Trichloroethene	SW-846:8260B	UF		0.37	ug/L	0.36	J	J	GEL		VOA

Notes
[1]None detected.

ENCLOSURE #2

Table 1.0. All Analytical Results, NMWQCC Regulation 3103 Contaminants (non-organic), SWSC Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
SWSC Spring	3/24/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
SWSC Spring	10/8/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
SWSC Spring	4/1/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	UJ		GELC
SWSC Spring	3/24/09	Al	SW-846:6010B	F		260	ug/L	68				GELC
SWSC Spring	10/8/08	Al	SW-846:6010B	F		236	ug/L	68				GELC
SWSC Spring	4/1/08	Al	SW-846:6010B	F		2300	ug/L	68				GELC
SWSC Spring	3/24/09	As	SW-846:6020	F	<	5.09	ug/L	1.5		U		GELC
SWSC Spring	10/8/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
SWSC Spring	4/1/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
SWSC Spring	3/24/09	B	SW-846:6010B	F		28.2	ug/L	10	J	J		GELC
SWSC Spring	10/8/08	B	SW-846:6010B	F		23.2	ug/L	10	J	J		GELC
SWSC Spring	4/1/08	B	SW-846:6010B	F		25.7	ug/L	10	J	J		GELC
SWSC Spring	3/24/09	Ba	SW-846:6010B	F		265	ug/L	1				GELC
SWSC Spring	10/8/08	Ba	SW-846:6010B	F		268	ug/L	1				GELC
SWSC Spring	4/1/08	Ba	SW-846:6010B	F		253	ug/L	1				GELC
SWSC Spring	3/24/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
SWSC Spring	10/8/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
SWSC Spring	4/1/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
SWSC Spring	3/24/09	Cl(-1)	EPA:300.0	F		24	mg/L	0.13				GELC
SWSC Spring	10/8/08	Cl(-1)	EPA:300.0	F		18.1	mg/L	0.066				GELC
SWSC Spring	4/1/08	Cl(-1)	EPA:300.0	F		23	mg/L	0.13				GELC
SWSC Spring	3/24/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
SWSC Spring	10/8/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
SWSC Spring	4/1/08	Co	SW-846:6010B	F		2.7	ug/L	1	J	J		GELC
SWSC Spring	3/24/09	Cr	SW-846:6020	F		2.88	ug/L	1.5	J	J		GELC
SWSC Spring	10/8/08	Cr	SW-846:6020	F		1.8	ug/L	1.5	J	J		GELC
SWSC Spring	4/1/08	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U		GELC
SWSC Spring	3/24/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
SWSC Spring	10/8/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
SWSC Spring	4/1/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
SWSC Spring	3/24/09	F(-1)	EPA:300.0	F		0.182	mg/L	0.033				GELC
SWSC Spring	10/8/08	F(-1)	EPA:300.0	F		0.161	mg/L	0.033				GELC
SWSC Spring	4/1/08	F(-1)	EPA:300.0	F		0.143	mg/L	0.033				GELC
SWSC Spring	3/24/09	Fe	SW-846:6010B	F		104	ug/L	25				GELC
SWSC Spring	10/8/08	Fe	SW-846:6010B	F		127	ug/L	25				GELC
SWSC Spring	4/1/08	Fe	SW-846:6010B	F		1030	ug/L	25				GELC

Table 1.0. All Analytical Results, NMWQCC Regulation 3103 Contaminants (non-organic), SWSC Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
SWSC Spring	3/24/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC
SWSC Spring	10/8/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC
SWSC Spring	4/1/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.03	U	U		GELC
SWSC Spring	3/24/09	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
SWSC Spring	10/8/08	Mn	SW-846:6010B	F		11	ug/L	2				GELC
SWSC Spring	4/1/08	Mn	SW-846:6010B	F		10.2	ug/L	2				GELC
SWSC Spring	3/24/09	Mo	SW-846:6020	F		0.595	ug/L	0.1				GELC
SWSC Spring	10/8/08	Mo	SW-846:6020	F	<	0.71	ug/L	0.1		U		GELC
SWSC Spring	4/1/08	Mo	SW-846:6020	F		0.45	ug/L	0.1	J	J		GELC
SWSC Spring	3/24/09	NO3+NO2-N	EPA:353.2	F		1.2	mg/L	0.05				GELC
SWSC Spring	10/8/08	NO3+NO2-N	EPA:353.2	F	<	1.13	mg/L	0.05		U		GELC
SWSC Spring	4/1/08	NO3+NO2-N	EPA:353.2	F		0.72	mg/L	0.05				GELC
SWSC Spring	3/24/09	Ni	SW-846:6020	F		1.22	ug/L	0.5	J	J		GELC
SWSC Spring	10/8/08	Ni	SW-846:6020	F		1	ug/L	0.5	J	J		GELC
SWSC Spring	4/1/08	Ni	SW-846:6020	F		2	ug/L	0.5	J	J		GELC
SWSC Spring	3/24/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
SWSC Spring	10/8/08	Pb	SW-846:6020	F	<	1.1	ug/L	0.5	J	U		GELC
SWSC Spring	4/1/08	Pb	SW-846:6020	F		0.62	ug/L	0.5	J	J		GELC
SWSC Spring	3/24/09	SO4(-2)	EPA:300.0	F		8.49	mg/L	0.1		J-		GELC
SWSC Spring	10/8/08	SO4(-2)	EPA:300.0	F		7.7	mg/L	0.1				GELC
SWSC Spring	4/1/08	SO4(-2)	EPA:300.0	F		10.8	mg/L	0.1				GELC
SWSC Spring	3/24/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
SWSC Spring	10/8/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
SWSC Spring	4/1/08	Se	SW-846:6020	F		1.5	ug/L	1	J	J		GELC
SWSC Spring	3/24/09	TDS	EPA:160.1	F		153	mg/L	2.4				GELC
SWSC Spring	10/8/08	TDS	EPA:160.1	F		150	mg/L	2.4				GELC
SWSC Spring	4/1/08	TDS	EPA:160.1	F		169	mg/L	2.4		J		GELC
SWSC Spring	3/24/09	U	SW-846:6020	F		0.358	ug/L	0.05				GELC
SWSC Spring	10/8/08	U	SW-846:6020	F		0.29	ug/L	0.05				GELC
SWSC Spring	4/1/08	U	SW-846:6020	F		0.28	ug/L	0.05				GELC
SWSC Spring	3/24/09	Zn	SW-846:6010B	F	<	3.28	ug/L	2	J	U		GELC
SWSC Spring	10/8/08	Zn	SW-846:6010B	F		2.9	ug/L	2	J	J		GELC
SWSC Spring	4/1/08	Zn	SW-846:6010B	F	<	4.9	ug/L	2	J	U		GELC
SWSC Spring	3/24/09	pH	EPA:150.1	F		7.23	SU	0.01	H	J-		GELC
SWSC Spring	10/8/08	pH	EPA:150.1	F		7.51	SU	0.01	H	J-		GELC
SWSC Spring	4/1/08	pH	EPA:150.1	F		7.02	SU	0.01	H	J-		GELC

Table 2.0. Detections of High-Explosives, SWSC Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
SWSC Spring	3/24/09	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.175	ug/L	0.078	J	J		GELC
SWSC Spring	10/8/08	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.085	ug/L	0.078	J	J		GELC
SWSC Spring	4/1/08	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.147	ug/L	0.078	J	J		GELC
SWSC Spring	10/23/07	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.096	ug/L	0.078	J			GELC
SWSC Spring	5/10/07	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.165	ug/L	0.078	J	J-		GELC
SWSC Spring	11/9/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.106	ug/L	0.078	J			GELC
SWSC Spring	8/26/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.667	ug/L					GELC
SWSC Spring	4/11/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.289	ug/L	0.065	J	J		GEL
SWSC Spring	3/24/09	121-82-4	RDX	SW-846:8321A_MOD	UF		43.4	ug/L	0.65		J		GELC
SWSC Spring	10/8/08	121-82-4	RDX	SW-846:8321A_MOD	UF		40.6	ug/L	0.65				GELC
SWSC Spring	4/1/08	121-82-4	RDX	SW-846:8321A_MOD	UF		61	ug/L	1.6				GELC
SWSC Spring	10/23/07	121-82-4	RDX	SW-846:8321A_MOD	UF		39.8	ug/L	0.649		J+		GELC
SWSC Spring	5/10/07	121-82-4	RDX	SW-846:8321A_MOD	UF		27.2	ug/L	1.3		J		GELC
SWSC Spring	11/9/05	121-82-4	RDX	SW-846:8321A_MOD	UF		26	ug/L	0.325		J+		GELC
SWSC Spring	8/26/05	121-82-4	RDX	SW-846:8321A_MOD	UF		47.8	ug/L			J-		GELC
SWSC Spring	4/11/05	121-82-4	RDX	SW-846:8321A_MOD	UF		37.1	ug/L	0.33				GEL
SWSC Spring	3/24/09	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.1	ug/L	0.13				GELC
SWSC Spring	10/8/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.909	ug/L	0.13				GELC
SWSC Spring	4/1/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.81	ug/L	0.13				GELC
SWSC Spring	10/23/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.04	ug/L	0.13				GELC
SWSC Spring	5/10/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.562	ug/L	0.13		J-		GELC
SWSC Spring	11/9/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.418	ug/L	0.13		J-		GELC
SWSC Spring	8/26/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.975	ug/L					GELC
SWSC Spring	4/11/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.541	ug/L	0.065				GEL
SWSC Spring	3/24/09	2691-41-0	HMX	SW-846:8321A_MOD	UF		3.92	ug/L	0.1		J+		GELC
SWSC Spring	10/8/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.7	ug/L	0.1		J		GELC
SWSC Spring	4/1/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		5.21	ug/L	0.1		J-		GELC
SWSC Spring	10/23/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		3.11	ug/L	0.104		J-		GELC
SWSC Spring	5/10/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.2	ug/L	0.104		J-		GELC
SWSC Spring	11/9/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.62	ug/L	0.104		J-, J+		GELC
SWSC Spring	8/26/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.84	ug/L		J			GELC
SWSC Spring	4/11/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.47	ug/L	0.084				GEL
SWSC Spring	3/24/09	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.819	ug/L	0.12				GELC
SWSC Spring	10/8/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.684	ug/L	0.12				GELC
SWSC Spring	4/1/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.725	ug/L	0.12		J+		GELC
SWSC Spring	10/23/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.699	ug/L	0.117				GELC
SWSC Spring	5/10/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.453	ug/L	0.117		J-		GELC
SWSC Spring	11/9/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.597	ug/L	0.117				GELC
SWSC Spring	8/26/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.829	ug/L					GELC
SWSC Spring	4/11/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.394	ug/L	0.065				GEL

Table 2.0. Detections of High-Explosives, SWSC Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
SWSC Spring	3/24/09	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.792	ug/L	0.61	J	J		GELC
SWSC Spring	4/1/08	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.627	ug/L	0.61	J	J		GELC
SWSC Spring	3/24/09	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		1.41	ug/L	0.1				GELC
SWSC Spring	10/8/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.217	ug/L	0.1	J	J		GELC
SWSC Spring	4/1/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.414	ug/L	0.1		J-		GELC
SWSC Spring	5/10/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.205	ug/L	0.104	J	J-		GELC
SWSC Spring	4/11/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.207	ug/L	0.078	J	J		GEL
SWSC Spring	3/24/09	DNX	DNX	SW-846:8330	UF		0.38	ug/L	0.069	JP	J		STSL
SWSC Spring	3/24/09	MNX	MNX	SW-846:8330	UF		0.5	ug/L	0.091		J		STSL
SWSC Spring	4/1/08	MNX	MNX	SW-846:8330	UF		0.73	ug/L	0.091	P			STSL
SWSC Spring	10/23/07	MNX	MNX	SW-846:8330	UF		0.81	ug/L	0.091				STSL
SWSC Spring	5/10/07	MNX	MNX	SW-846:8330	UF		0.23	ug/L	0.091	J	J+		STSL
SWSC Spring	3/24/09	TNX	TNX	SW-846:8330	UF		0.43	ug/L	0.082	J	J		STSL
SWSC Spring	5/10/07	TNX	TNX	SW-846:8330	UF		0.2	ug/L	0.082	JP	J+		STSL

Table 3.0. Detections of VOCs and SVOCs[1], SWSC Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld Qc Type Code	Anyl Suite Code
SWSC Spring	3/24/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.879	ug/L	0.45	J	J		GELC	VOA
SWSC Spring	10/8/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.17	ug/L	0.45				GELC	VOA
SWSC Spring	4/1/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.38	ug/L	0.25				GELC	VOA
SWSC Spring	5/10/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.33	ug/L	0.25				GELC	VOA
SWSC Spring	11/9/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.784	ug/L	0.25	J			GELC	VOA
SWSC Spring	8/26/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		0.74	ug/L		J			GELC	VOA
SWSC Spring	4/11/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.2	ug/L	0.25				GEL	VOA
SWSC Spring	4/1/08	67-64-1	Acetone	SW-846:8260B	UF		2.09	ug/L	1.3	J	J	FTB	GELC	VOA
SWSC Spring	8/26/05	67-64-1	Acetone	SW-846:8260B	UF		3	ug/L		J			GELC	VOA
SWSC Spring	3/24/09	79-01-6	Trichloroethene	SW-846:8260B	UF		0.958	ug/L	0.25	J	J		GELC	VOA
SWSC Spring	10/8/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.28	ug/L	0.25				GELC	VOA
SWSC Spring	4/1/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.23	ug/L	0.25				GELC	VOA
SWSC Spring	5/10/07	79-01-6	Trichloroethene	SW-846:8260B	UF		1.17	ug/L	0.25				GELC	VOA
SWSC Spring	11/9/05	79-01-6	Trichloroethene	SW-846:8260B	UF		0.987	ug/L	0.25	J			GELC	VOA
SWSC Spring	8/26/05	79-01-6	Trichloroethene	SW-846:8260B	UF		0.71	ug/L		J			GELC	VOA
SWSC Spring	4/11/05	79-01-6	Trichloroethene	SW-846:8260B	UF		0.98	ug/L	0.25	J	J		GEL	VOA

Notes

[1]None detected.

ENCLOSURE #3

Table 1.0. All Analytical Results, NMWQCC 3103 Contaminants (non-organic), Burning Ground Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Burning Ground Spring	3/24/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	FD	GELC
Burning Ground Spring	3/24/09	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
Burning Ground Spring	10/7/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U		GELC
Burning Ground Spring	10/7/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	U	FD	GELC
Burning Ground Spring	4/1/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	UJ		GELC
Burning Ground Spring	4/1/08	Ag	SW-846:6020	F	<	1	ug/L	0.2	U	UJ	FD	GELC
Burning Ground Spring	3/24/09	Al	SW-846:6010B	F		255	ug/L	68				GELC
Burning Ground Spring	3/24/09	Al	SW-846:6010B	F		258	ug/L	68			FD	GELC
Burning Ground Spring	10/7/08	Al	SW-846:6010B	F		144	ug/L	68	J	J	FD	GELC
Burning Ground Spring	10/7/08	Al	SW-846:6010B	F		189	ug/L	68	J	J		GELC
Burning Ground Spring	4/1/08	Al	SW-846:6010B	F		2010	ug/L	68				GELC
Burning Ground Spring	4/1/08	Al	SW-846:6010B	F		2050	ug/L	68			FD	GELC
Burning Ground Spring	3/24/09	As	SW-846:6020	F	<	5.66	ug/L	1.5		U	FD	GELC
Burning Ground Spring	3/24/09	As	SW-846:6020	F	<	4.12	ug/L	1.5	J	U		GELC
Burning Ground Spring	10/7/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	FD	GELC
Burning Ground Spring	10/7/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
Burning Ground Spring	4/1/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U		GELC
Burning Ground Spring	4/1/08	As	SW-846:6020	F	<	5	ug/L	1.5	U	U	FD	GELC
Burning Ground Spring	3/24/09	B	SW-846:6010B	F		20.2	ug/L	10	J	J	FD	GELC
Burning Ground Spring	3/24/09	B	SW-846:6010B	F		21.9	ug/L	10	J	J		GELC
Burning Ground Spring	10/7/08	B	SW-846:6010B	F		16.7	ug/L	10	J	J	FD	GELC
Burning Ground Spring	10/7/08	B	SW-846:6010B	F		16.9	ug/L	10	J	J		GELC
Burning Ground Spring	4/1/08	B	SW-846:6010B	F		18.2	ug/L	10	J	J	FD	GELC
Burning Ground Spring	4/1/08	B	SW-846:6010B	F		18.9	ug/L	10	J	J		GELC
Burning Ground Spring	3/24/09	Ba	SW-846:6010B	F		174	ug/L	1			FD	GELC
Burning Ground Spring	3/24/09	Ba	SW-846:6010B	F		173	ug/L	1				GELC
Burning Ground Spring	10/7/08	Ba	SW-846:6010B	F		189	ug/L	1			FD	GELC
Burning Ground Spring	10/7/08	Ba	SW-846:6010B	F		190	ug/L	1				GELC
Burning Ground Spring	4/1/08	Ba	SW-846:6010B	F		204	ug/L	1			FD	GELC
Burning Ground Spring	4/1/08	Ba	SW-846:6010B	F		211	ug/L	1				GELC
Burning Ground Spring	3/24/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	FD	GELC
Burning Ground Spring	3/24/09	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Burning Ground Spring	10/7/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	FD	GELC
Burning Ground Spring	10/7/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Burning Ground Spring	4/1/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U	FD	GELC
Burning Ground Spring	4/1/08	Cd	SW-846:6020	F	<	1	ug/L	0.11	U	U		GELC
Burning Ground Spring	3/24/09	Cl(-1)	EPA:300.0	F		23.8	mg/L	0.13				GELC
Burning Ground Spring	3/24/09	Cl(-1)	EPA:300.0	F		23.8	mg/L	0.13			FD	GELC

Table 1.0. All Analytical Results, NMWQCC 3103 Contaminants (non-organic), Burning Ground Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Burning Ground Spring	10/7/08	Cl(-1)	EPA:300.0	F		18.6	mg/L	0.066		J+	FD	GELC
Burning Ground Spring	10/7/08	Cl(-1)	EPA:300.0	F		18.7	mg/L	0.066		J+		GELC
Burning Ground Spring	4/1/08	Cl(-1)	EPA:300.0	F		23.3	mg/L	0.13			FD	GELC
Burning Ground Spring	4/1/08	Cl(-1)	EPA:300.0	F		23.1	mg/L	0.13				GELC
Burning Ground Spring	3/24/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	3/24/09	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	10/7/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	10/7/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	4/1/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	4/1/08	Co	SW-846:6010B	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	3/24/09	Cr	SW-846:6020	F	<	2.92	ug/L	1.5	J	U	FD	GELC
Burning Ground Spring	3/24/09	Cr	SW-846:6020	F	<	2.33	ug/L	1.5	J	U		GELC
Burning Ground Spring	10/7/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U	FD	GELC
Burning Ground Spring	10/7/08	Cr	SW-846:6020	F	<	3	ug/L	1.5	U	U		GELC
Burning Ground Spring	4/1/08	Cr	SW-846:6020	F	<	10	ug/L	2.5	U	U	FD	GELC
Burning Ground Spring	4/1/08	Cr	SW-846:6020	F		2.7	ug/L	2.5	J	J		GELC
Burning Ground Spring	3/24/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	FD	GELC
Burning Ground Spring	3/24/09	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Burning Ground Spring	10/7/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Burning Ground Spring	10/7/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	FD	GELC
Burning Ground Spring	4/1/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U		GELC
Burning Ground Spring	4/1/08	Cu	SW-846:6010B	F	<	10	ug/L	3	U	U	FD	GELC
Burning Ground Spring	3/24/09	F(-1)	EPA:300.0	F		0.181	mg/L	0.033			FD	GELC
Burning Ground Spring	3/24/09	F(-1)	EPA:300.0	F		0.179	mg/L	0.033				GELC
Burning Ground Spring	10/7/08	F(-1)	EPA:300.0	F		0.177	mg/L	0.033			FD	GELC
Burning Ground Spring	10/7/08	F(-1)	EPA:300.0	F		0.179	mg/L	0.033				GELC
Burning Ground Spring	4/1/08	F(-1)	EPA:300.0	F		0.147	mg/L	0.033				GELC
Burning Ground Spring	4/1/08	F(-1)	EPA:300.0	F		0.145	mg/L	0.033			FD	GELC
Burning Ground Spring	3/24/09	Fe	SW-846:6010B	F		104	ug/L	25			FD	GELC
Burning Ground Spring	3/24/09	Fe	SW-846:6010B	F		123	ug/L	25				GELC
Burning Ground Spring	10/7/08	Fe	SW-846:6010B	F		113	ug/L	25				GELC
Burning Ground Spring	10/7/08	Fe	SW-846:6010B	F		86	ug/L	25	J	J	FD	GELC
Burning Ground Spring	4/1/08	Fe	SW-846:6010B	F		898	ug/L	25			FD	GELC
Burning Ground Spring	4/1/08	Fe	SW-846:6010B	F		871	ug/L	25				GELC
Burning Ground Spring	3/24/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	FD	GELC
Burning Ground Spring	3/24/09	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC
Burning Ground Spring	10/7/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U	FD	GELC

Table 1.0. All Analytical Results, NMWQCC 3103 Contaminants (non-organic), Burning Ground Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Burning Ground Spring	10/7/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.067	U	U		GELC
Burning Ground Spring	4/1/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.03	U	U	FB	GELC
Burning Ground Spring	4/1/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.03	U	U		GELC
Burning Ground Spring	4/1/08	Hg	EPA:245.2	UF	<	0.2	ug/L	0.03	U	U	FD	GELC
Burning Ground Spring	3/24/09	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Burning Ground Spring	3/24/09	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U	FD	GELC
Burning Ground Spring	10/7/08	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Burning Ground Spring	10/7/08	Mn	SW-846:6010B	F	<	10	ug/L	2	U	U	FD	GELC
Burning Ground Spring	4/1/08	Mn	SW-846:6010B	F		4.5	ug/L	2	J	J		GELC
Burning Ground Spring	4/1/08	Mn	SW-846:6010B	F		4.7	ug/L	2	J	J	FD	GELC
Burning Ground Spring	3/24/09	Mo	SW-846:6020	F	<	0.629	ug/L	0.1		U		GELC
Burning Ground Spring	3/24/09	Mo	SW-846:6020	F	<	0.55	ug/L	0.1		U	FD	GELC
Burning Ground Spring	10/7/08	Mo	SW-846:6020	F		0.65	ug/L	0.1			FD	GELC
Burning Ground Spring	10/7/08	Mo	SW-846:6020	F		0.63	ug/L	0.1				GELC
Burning Ground Spring	4/1/08	Mo	SW-846:6020	F		0.37	ug/L	0.1	J	J		GELC
Burning Ground Spring	4/1/08	Mo	SW-846:6020	F		0.4	ug/L	0.1	J	J	FD	GELC
Burning Ground Spring	3/24/09	NO3+NO2-N	EPA:353.2	F		1.11	mg/L	0.05		J+	FD	GELC
Burning Ground Spring	3/24/09	NO3+NO2-N	EPA:353.2	F		1.15	mg/L	0.05		J+		GELC
Burning Ground Spring	10/7/08	NO3+NO2-N	EPA:353.2	F		0.995	mg/L	0.05		J		GELC
Burning Ground Spring	10/7/08	NO3+NO2-N	EPA:353.2	F		0.98	mg/L	0.05		J	FD	GELC
Burning Ground Spring	4/1/08	NO3+NO2-N	EPA:353.2	F		0.7	mg/L	0.05				GELC
Burning Ground Spring	4/1/08	NO3+NO2-N	EPA:353.2	F		0.7	mg/L	0.05			FD	GELC
Burning Ground Spring	3/24/09	Ni	SW-846:6020	F		1.51	ug/L	0.5	J	J		GELC
Burning Ground Spring	3/24/09	Ni	SW-846:6020	F		1.56	ug/L	0.5	J	J	FD	GELC
Burning Ground Spring	10/7/08	Ni	SW-846:6020	F		1.4	ug/L	0.5	J	J	FD	GELC
Burning Ground Spring	10/7/08	Ni	SW-846:6020	F		1.6	ug/L	0.5	J	J		GELC
Burning Ground Spring	4/1/08	Ni	SW-846:6020	F	<	2.2	ug/L	0.5		U		GELC
Burning Ground Spring	4/1/08	Ni	SW-846:6020	F	<	2	ug/L	0.5	J	U	FD	GELC
Burning Ground Spring	3/24/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
Burning Ground Spring	3/24/09	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	FD	GELC
Burning Ground Spring	10/7/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U	FD	GELC
Burning Ground Spring	10/7/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
Burning Ground Spring	4/1/08	Pb	SW-846:6020	F		0.51	ug/L	0.5	J	J	FD	GELC
Burning Ground Spring	4/1/08	Pb	SW-846:6020	F	<	2	ug/L	0.5	U	U		GELC
Burning Ground Spring	3/24/09	SO4(-2)	EPA:300.0	F		8.35	mg/L	0.1				GELC
Burning Ground Spring	3/24/09	SO4(-2)	EPA:300.0	F		8.35	mg/L	0.1			FD	GELC
Burning Ground Spring	10/7/08	SO4(-2)	EPA:300.0	F		7.74	mg/L	0.1			FD	GELC
Burning Ground Spring	10/7/08	SO4(-2)	EPA:300.0	F		7.77	mg/L	0.1				GELC
Burning Ground Spring	4/1/08	SO4(-2)	EPA:300.0	F		10.9	mg/L	0.1			FD	GELC

Table 1.0. All Analytical Results, NMWQCC 3103 Contaminants (non-organic), Burning Ground Spring, 2008-2009.

Location Name	Start Date	Analyte	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Fld Qc Type Code	Lab Code
Burning Ground Spring	4/1/08	SO4(-2)	EPA:300.0	F		10.9	mg/L	0.1				GELC
Burning Ground Spring	3/24/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	3/24/09	Se	SW-846:6020	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	10/7/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	10/7/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	4/1/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U		GELC
Burning Ground Spring	4/1/08	Se	SW-846:6020	F	<	5	ug/L	1	U	U	FD	GELC
Burning Ground Spring	3/24/09	TDS	EPA:160.1	F		152	mg/L	2.4				GELC
Burning Ground Spring	3/24/09	TDS	EPA:160.1	F		165	mg/L	2.4			FD	GELC
Burning Ground Spring	10/7/08	TDS	EPA:160.1	F		149	mg/L	2.4				GELC
Burning Ground Spring	10/7/08	TDS	EPA:160.1	F		154	mg/L	2.4			FD	GELC
Burning Ground Spring	4/1/08	TDS	EPA:160.1	F		166	mg/L	2.4		J	FD	GELC
Burning Ground Spring	4/1/08	TDS	EPA:160.1	F		172	mg/L	2.4		J		GELC
Burning Ground Spring	3/24/09	U	SW-846:6020	F	<	0.389	ug/L	0.05		U	FD	GELC
Burning Ground Spring	3/24/09	U	SW-846:6020	F	<	0.385	ug/L	0.05		U		GELC
Burning Ground Spring	10/7/08	U	SW-846:6020	F		0.34	ug/L	0.05				GELC
Burning Ground Spring	10/7/08	U	SW-846:6020	F		0.34	ug/L	0.05			FD	GELC
Burning Ground Spring	4/1/08	U	SW-846:6020	F		0.29	ug/L	0.05				GELC
Burning Ground Spring	4/1/08	U	SW-846:6020	F		0.29	ug/L	0.05			FD	GELC
Burning Ground Spring	3/24/09	Zn	SW-846:6010B	F	<	3.4	ug/L	2	J	U		GELC
Burning Ground Spring	3/24/09	Zn	SW-846:6010B	F	<	3.2	ug/L	2	J	U	FD	GELC
Burning Ground Spring	10/7/08	Zn	SW-846:6010B	F	<	10	ug/L	2	U	U	FD	GELC
Burning Ground Spring	10/7/08	Zn	SW-846:6010B	F	<	10	ug/L	2	U	U		GELC
Burning Ground Spring	4/1/08	Zn	SW-846:6010B	F	<	3.8	ug/L	2	J	U		GELC
Burning Ground Spring	4/1/08	Zn	SW-846:6010B	F	<	4.1	ug/L	2	J	U	FD	GELC
Burning Ground Spring	3/24/09	pH	EPA:150.1	F		7.34	SU	0.01	H	J-		GELC
Burning Ground Spring	3/24/09	pH	EPA:150.1	F		7.33	SU	0.01	H	J-	FD	GELC
Burning Ground Spring	10/7/08	pH	EPA:150.1	F		7.24	SU	0.01	H	J-		GELC
Burning Ground Spring	10/7/08	pH	EPA:150.1	F		7.19	SU	0.01	H	J-	FD	GELC
Burning Ground Spring	4/1/08	pH	EPA:150.1	F		7.12	SU	0.01	H	J-	FD	GELC
Burning Ground Spring	4/1/08	pH	EPA:150.1	F		7.08	SU	0.01	H	J-		GELC

Table 2.0. Detections of High-Explosives, Burning Ground Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
Burning Ground Spring	3/24/09	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.683	ug/L	0.61	J	J	GELC	FD
Burning Ground Spring	3/24/09	618-87-1	3,5-Dinitroaniline	SW-846:8321A_MOD	UF		0.76	ug/L	0.61	J	J	GELC	
Burning Ground Spring	3/24/09	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.521	ug/L	0.13			GELC	
Burning Ground Spring	3/24/09	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.485	ug/L	0.13			GELC	FD
Burning Ground Spring	10/7/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.32	ug/L	0.13	J	J	GELC	FD
Burning Ground Spring	10/7/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.343	ug/L	0.13			GELC	
Burning Ground Spring	4/1/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.313	ug/L	0.13	J	J-	GELC	FD
Burning Ground Spring	4/1/08	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.29	ug/L	0.13	J	J-	GELC	
Burning Ground Spring	10/19/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.477	ug/L	0.13			GELC	
Burning Ground Spring	5/15/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.188	ug/L	0.13	J	J	GELC	
Burning Ground Spring	1/29/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.33	ug/L	0.13			GELC	
Burning Ground Spring	1/29/07	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.334	ug/L	0.13			GELC	FD
Burning Ground Spring	7/31/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.373	ug/L	0.13			GELC	
Burning Ground Spring	4/3/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.238	ug/L	0.13	J		GELC	FD
Burning Ground Spring	4/3/06	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.294	ug/L	0.13	J		GELC	
Burning Ground Spring	11/9/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		0.149	ug/L	0.13	J	J-	GELC	
Burning Ground Spring	8/26/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.01	ug/L				GELC	
Burning Ground Spring	8/26/05	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A_MOD	UF		1.12	ug/L			J+, J	GELC	FD
Burning Ground Spring	3/24/09	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.479	ug/L	0.12			GELC	FD
Burning Ground Spring	3/24/09	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.409	ug/L	0.12			GELC	
Burning Ground Spring	10/7/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.356	ug/L	0.12			GELC	FD
Burning Ground Spring	10/7/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.375	ug/L	0.12			GELC	
Burning Ground Spring	4/1/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.352	ug/L	0.12		J-	GELC	
Burning Ground Spring	4/1/08	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.344	ug/L	0.12		J-	GELC	FD
Burning Ground Spring	10/19/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.32	ug/L	0.117	J		GELC	
Burning Ground Spring	5/15/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.23	ug/L	0.117	J	J	GELC	
Burning Ground Spring	1/29/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.297	ug/L	0.117	J		GELC	
Burning Ground Spring	1/29/07	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.279	ug/L	0.117	J		GELC	FD
Burning Ground Spring	7/31/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.318	ug/L	0.117	J		GELC	
Burning Ground Spring	4/3/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.285	ug/L	0.117	J	J+	GELC	FD
Burning Ground Spring	4/3/06	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.301	ug/L	0.117	J	J+	GELC	
Burning Ground Spring	11/9/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.291	ug/L	0.117	J		GELC	
Burning Ground Spring	8/26/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.463	ug/L			J, J+	GELC	FD
Burning Ground Spring	8/26/05	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A_MOD	UF		0.387	ug/L				GELC	
Burning Ground Spring	3/24/09	DNX	DNX	SW-846:8330	UF		0.22	ug/L	0.069	JP	J	STSL	FD
Burning Ground Spring	3/24/09	DNX	DNX	SW-846:8330	UF		0.25	ug/L	0.069	JP	J	STSL	
Burning Ground Spring	5/15/07	DNX	DNX	SW-846:8330	UF		0.12	ug/L	0.069	J		STSL	
Burning Ground Spring	1/29/07	DNX	DNX	SW-846:8330	UF		0.27	ug/L	0.069	J		STSL	
Burning Ground Spring	1/29/07	DNX	DNX	SW-846:8330	UF		0.28	ug/L	0.069	J		STSL	FD
Burning Ground Spring	4/3/06	DNX	DNX	SW-846:8330	UF		0.26	ug/L	0.034	J		STSL	

Table 2.0. Detections of High-Explosives, Burning Ground Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
Burning Ground Spring	4/3/06	DNX	DNX	SW-846:8330	UF		0.25	ug/L	0.034	J		STSL	FD
Burning Ground Spring	3/24/09	2691-41-0	HMX	SW-846:8321A_MOD	UF		3.19	ug/L	0.1			GELC	FD
Burning Ground Spring	3/24/09	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.95	ug/L	0.1			GELC	
Burning Ground Spring	10/7/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.96	ug/L	0.1		J+	GELC	FD
Burning Ground Spring	10/7/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.27	ug/L	0.1		J+	GELC	
Burning Ground Spring	4/1/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.43	ug/L	0.1		J	GELC	
Burning Ground Spring	4/1/08	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.67	ug/L	0.1		J	GELC	FD
Burning Ground Spring	10/19/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.81	ug/L	0.104		J-	GELC	
Burning Ground Spring	5/15/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.28	ug/L	0.104		J, J+	GELC	
Burning Ground Spring	1/29/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.11	ug/L	0.104		J+	GELC	FD
Burning Ground Spring	1/29/07	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.97	ug/L	0.104		J+	GELC	
Burning Ground Spring	7/31/06	2691-41-0	HMX	SW-846:8321A_MOD	UF		2.11	ug/L	0.104		J-, J+	GELC	
Burning Ground Spring	4/3/06	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.52	ug/L	0.104			GELC	
Burning Ground Spring	4/3/06	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.65	ug/L	0.104			GELC	FD
Burning Ground Spring	11/9/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.88	ug/L	0.104		J+, J-	GELC	
Burning Ground Spring	8/26/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		5.91	ug/L				GELC	
Burning Ground Spring	8/26/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		7.58	ug/L			J, J+	GELC	FD
Burning Ground Spring	1/26/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.14	ug/L	0.25			GEL	
Burning Ground Spring	1/26/05	2691-41-0	HMX	SW-846:8321A_MOD	UF		1.07	ug/L	0.25			GEL	FD
Burning Ground Spring	3/24/09	MNX	MNX	SW-846:8330	UF		0.41	ug/L	0.091	JP	J	STSL	
Burning Ground Spring	3/24/09	MNX	MNX	SW-846:8330	UF		0.39	ug/L	0.091	JP	J	STSL	FD
Burning Ground Spring	4/1/08	MNX	MNX	SW-846:8330	UF		0.55	ug/L	0.091	P		STSL	
Burning Ground Spring	4/1/08	MNX	MNX	SW-846:8330	UF		0.58	ug/L	0.091	P		STSL	FD
Burning Ground Spring	5/15/07	MNX	MNX	SW-846:8330	UF		0.19	ug/L	0.091	J		STSL	
Burning Ground Spring	1/29/07	MNX	MNX	SW-846:8330	UF		0.26	ug/L	0.091	J		STSL	FD
Burning Ground Spring	1/29/07	MNX	MNX	SW-846:8330	UF		0.26	ug/L	0.091	J		STSL	
Burning Ground Spring	4/3/06	MNX	MNX	SW-846:8330	UF		0.24	ug/L	0.07	J		STSL	FD
Burning Ground Spring	4/3/06	MNX	MNX	SW-846:8330	UF		0.26	ug/L	0.07	J		STSL	
Burning Ground Spring	3/24/09	121-82-4	RDX	SW-846:8321A_MOD	UF		28.9	ug/L	0.65		J	GELC	
Burning Ground Spring	3/24/09	121-82-4	RDX	SW-846:8321A_MOD	UF		25.3	ug/L	0.65		J	GELC	FD
Burning Ground Spring	10/7/08	121-82-4	RDX	SW-846:8321A_MOD	UF		22.7	ug/L	0.65		J+	GELC	FD
Burning Ground Spring	10/7/08	121-82-4	RDX	SW-846:8321A_MOD	UF		24.2	ug/L	0.33		J+	GELC	
Burning Ground Spring	4/1/08	121-82-4	RDX	SW-846:8321A_MOD	UF		24.9	ug/L	0.65		J	GELC	FD
Burning Ground Spring	4/1/08	121-82-4	RDX	SW-846:8321A_MOD	UF		24.7	ug/L	0.65		J	GELC	
Burning Ground Spring	10/19/07	121-82-4	RDX	SW-846:8321A_MOD	UF		21.8	ug/L	0.649		J+	GELC	
Burning Ground Spring	5/15/07	121-82-4	RDX	SW-846:8321A_MOD	UF		17.1	ug/L	0.325		J+, J	GELC	
Burning Ground Spring	1/29/07	121-82-4	RDX	SW-846:8321A_MOD	UF		23.3	ug/L	0.325		J, J+	GELC	
Burning Ground Spring	1/29/07	121-82-4	RDX	SW-846:8321A_MOD	UF		23.6	ug/L	0.649		J+, J	GELC	FD
Burning Ground Spring	7/31/06	121-82-4	RDX	SW-846:8321A_MOD	UF		21.9	ug/L	0.649			GELC	
Burning Ground Spring	4/3/06	121-82-4	RDX	SW-846:8321A_MOD	UF		18.6	ug/L	0.325		J	GELC	
Burning Ground Spring	4/3/06	121-82-4	RDX	SW-846:8321A_MOD	UF		18.5	ug/L	0.325		J, J+	GELC	FD
Burning Ground Spring	11/9/05	121-82-4	RDX	SW-846:8321A_MOD	UF		12.3	ug/L	0.13		J+	GELC	

Table 2.0. Detections of High-Explosives, Burning Ground Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld QC Type Code
Burning Ground Spring	8/26/05	121-82-4	RDX	SW-846:8321A_MOD	UF		42.1	ug/L			J-	GELC	
Burning Ground Spring	8/26/05	121-82-4	RDX	SW-846:8321A_MOD	UF		51.3	ug/L			J	GELC	FD
Burning Ground Spring	1/26/05	121-82-4	RDX	SW-846:8321A_MOD	UF		14.3	ug/L	0.25			GEL	
Burning Ground Spring	1/26/05	121-82-4	RDX	SW-846:8321A_MOD	UF		14.4	ug/L	0.25			GEL	FD
Burning Ground Spring	3/24/09	TNX	TNX	SW-846:8330	UF		0.33	ug/L	0.082	J	J	STSL	FD
Burning Ground Spring	3/24/09	TNX	TNX	SW-846:8330	UF		0.38	ug/L	0.082	J	J	STSL	
Burning Ground Spring	5/15/07	TNX	TNX	SW-846:8330	UF		0.19	ug/L	0.082	J		STSL	
Burning Ground Spring	1/29/07	TNX	TNX	SW-846:8330	UF		0.35	ug/L	0.082	JP	J+	STSL	
Burning Ground Spring	1/29/07	TNX	TNX	SW-846:8330	UF		0.34	ug/L	0.082	JP	J+	STSL	FD
Burning Ground Spring	4/3/06	TNX	TNX	SW-846:8330	UF		0.33	ug/L	0.041	J		STSL	FD
Burning Ground Spring	4/3/06	TNX	TNX	SW-846:8330	UF		0.37	ug/L	0.041	J		STSL	
Burning Ground Spring	3/24/09	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		1.82	ug/L	0.1			GELC	
Burning Ground Spring	3/24/09	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		2.11	ug/L	0.1			GELC	FD
Burning Ground Spring	10/7/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.517	ug/L	0.1			GELC	
Burning Ground Spring	10/7/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.58	ug/L	0.1			GELC	FD
Burning Ground Spring	4/1/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		1.08	ug/L	0.1		J-	GELC	FD
Burning Ground Spring	4/1/08	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		1.13	ug/L	0.1		J-	GELC	
Burning Ground Spring	10/19/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		1.18	ug/L	0.104			GELC	
Burning Ground Spring	5/15/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.618	ug/L	0.104		J	GELC	
Burning Ground Spring	1/29/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.802	ug/L	0.104			GELC	
Burning Ground Spring	1/29/07	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.852	ug/L	0.104			GELC	FD
Burning Ground Spring	7/31/06	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.327	ug/L	0.104		J-	GELC	
Burning Ground Spring	4/3/06	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.411	ug/L	0.104			GELC	FD
Burning Ground Spring	4/3/06	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.458	ug/L	0.104			GELC	
Burning Ground Spring	11/9/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.277	ug/L	0.104	J		GELC	
Burning Ground Spring	8/26/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.207	ug/L		J		GELC	
Burning Ground Spring	8/26/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.12	ug/L		J	J	GELC	FD
Burning Ground Spring	1/26/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.33	ug/L	0.21	J	J	GEL	FD
Burning Ground Spring	1/26/05	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A_MOD	UF		0.408	ug/L	0.21	J	J	GEL	
Burning Ground Spring	3/24/09	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.117	ug/L	0.078	J	J	GELC	FD
Burning Ground Spring	3/24/09	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.137	ug/L	0.078	J	J	GELC	
Burning Ground Spring	4/1/08	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.104	ug/L	0.078	J	J-	GELC	
Burning Ground Spring	4/1/08	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.112	ug/L	0.078	J	J-	GELC	FD
Burning Ground Spring	10/19/07	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.27	ug/L	0.078	J		GELC	
Burning Ground Spring	5/15/07	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.266	ug/L	0.078	J	J	GELC	
Burning Ground Spring	7/31/06	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.278	ug/L	0.078	J	J-	GELC	
Burning Ground Spring	11/9/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.106	ug/L	0.078	J		GELC	
Burning Ground Spring	8/26/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		1.85	ug/L			J	GELC	FD
Burning Ground Spring	8/26/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		2.27	ug/L				GELC	
Burning Ground Spring	1/26/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.363	ug/L	0.2	J	J	GEL	
Burning Ground Spring	1/26/05	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A_MOD	UF		0.438	ug/L	0.2	J	J	GEL	FD

Table 3.0. Detections of VOCs and SVOCs[1], Burning Ground Spring, 2005-2009.

Location Name	Start Date	Analyte	Analyte Desc	Anyl Meth Code	Fld Prep Code	Symbol	Std Result	Std Uom	Std Mdl	Lab Qual Code	Concat Flag Code	Lab Code	Fld Qc Type Code	Anyl Suite Code
Burning Ground Spring	3/24/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.36	ug/L	0.45			FD	GELC	VOA
Burning Ground Spring	3/24/09	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.33	ug/L	0.45				GELC	VOA
Burning Ground Spring	10/7/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.4	ug/L	0.45			FD	GELC	VOA
Burning Ground Spring	10/7/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.6	ug/L	0.45				GELC	VOA
Burning Ground Spring	4/1/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.35	ug/L	0.25				GELC	VOA
Burning Ground Spring	4/1/08	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.37	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	10/19/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.37	ug/L	0.25				GELC	VOA
Burning Ground Spring	5/15/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.38	ug/L	0.25				GELC	VOA
Burning Ground Spring	1/29/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.61	ug/L	0.25				GELC	VOA
Burning Ground Spring	1/29/07	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.66	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	4/3/06	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.64	ug/L	0.25				GELC	VOA
Burning Ground Spring	4/3/06	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.43	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	11/9/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.83	ug/L	0.25				GELC	VOA
Burning Ground Spring	8/26/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.7	ug/L			J-	FD	GELC	VOA
Burning Ground Spring	8/26/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.8	ug/L					GELC	VOA
Burning Ground Spring	1/26/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.5	ug/L	0.33				GEL	VOA
Burning Ground Spring	1/26/05	127-18-4	Tetrachloroethene	SW-846:8260B	UF		1.5	ug/L	0.33			FD	GEL	VOA
Burning Ground Spring	10/7/08	67-64-1	Acetone	SW-846:8260B	UF		3.43	ug/L	1.5	J	J		GELC	VOA
Burning Ground Spring	10/7/08	67-64-1	Acetone	SW-846:8260B	UF		2.8	ug/L	1.5	J	J	FD	GELC	VOA
Burning Ground Spring	5/15/07	67-64-1	Acetone	SW-846:8260B	UF		1.48	ug/L	1.25	J	J-		GELC	VOA
Burning Ground Spring	3/24/09	79-01-6	Trichloroethene	SW-846:8260B	UF		1.78	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	3/24/09	79-01-6	Trichloroethene	SW-846:8260B	UF		1.61	ug/L	0.25				GELC	VOA
Burning Ground Spring	10/7/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.61	ug/L	0.25				GELC	VOA
Burning Ground Spring	10/7/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.62	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	4/1/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.32	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	4/1/08	79-01-6	Trichloroethene	SW-846:8260B	UF		1.24	ug/L	0.25				GELC	VOA
Burning Ground Spring	10/19/07	79-01-6	Trichloroethene	SW-846:8260B	UF		1.66	ug/L	0.25				GELC	VOA
Burning Ground Spring	5/15/07	79-01-6	Trichloroethene	SW-846:8260B	UF		1.64	ug/L	0.25				GELC	VOA
Burning Ground Spring	1/29/07	79-01-6	Trichloroethene	SW-846:8260B	UF		1.62	ug/L	0.25				GELC	VOA
Burning Ground Spring	1/29/07	79-01-6	Trichloroethene	SW-846:8260B	UF		1.68	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	4/3/06	79-01-6	Trichloroethene	SW-846:8260B	UF		1.74	ug/L	0.25			FD	GELC	VOA
Burning Ground Spring	4/3/06	79-01-6	Trichloroethene	SW-846:8260B	UF		1.77	ug/L	0.25				GELC	VOA
Burning Ground Spring	11/9/05	79-01-6	Trichloroethene	SW-846:8260B	UF		1.82	ug/L	0.25				GELC	VOA
Burning Ground Spring	8/26/05	79-01-6	Trichloroethene	SW-846:8260B	UF		2	ug/L				FD	GELC	VOA
Burning Ground Spring	8/26/05	79-01-6	Trichloroethene	SW-846:8260B	UF		1.7	ug/L					GELC	VOA
Burning Ground Spring	1/26/05	79-01-6	Trichloroethene	SW-846:8260B	UF		1.9	ug/L	0.36				GEL	VOA
Burning Ground Spring	1/26/05	79-01-6	Trichloroethene	SW-846:8260B	UF		1.8	ug/L	0.36			FD	GEL	VOA

Notes
[1]None detected.

ENCLOSURE #4

Los Alamos
NATIONAL LABORATORY
EST. 1943

Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, Mail Stop K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX: (505) 667-5224

Date: May 4, 2009
Refer To: ENV-RCRA-09-077

Mr. James Bearzi
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Dear Mr. Bearzi:

SUBJECT: REQUEST FOR "CONTAINED-IN" DETERMINATION FOR SPRING AND ALLUVIAL WATERS TO EXPEDITE THE CORRECTIVE MEASURES IMPLEMENTATION PLAN FOR CONSOLIDATED UNIT 16-021(c)-99

The purpose of this letter is to request that the New Mexico Environment Department (NMED) Hazardous Waste Bureau use its authority under 20.4.1.200 New Mexico Administrative Code (NMAC) 261.3(f) and the Environmental Protection Agency's (EPA's) "contained-in" policy to determine that spring and alluvial waters in the Cañon de Valle drainage that are potentially contaminated by listed contaminants and residues from treatment of these waters do not warrant management as F-listed hazardous waste, pursuant to the requirements of 20.4.1.200 NMAC §261.31. The Technical Area 16 building 260 (TA-16-260) outfall is believed to be the major source of contaminants in the Cañon de Valle drainage. Based on document review and interviews with workers, a variety of F-listed solvents were discharged to the outfall from cleaning operations at TA-16-260. However, the documentation and interviews did not identify contamination from disposal or spills of P- or U-listed materials or releases from K-listed processes; therefore, these waste numbers would not be assigned to the alluvial and spring waters.

Without NMED's approval of this "contained-in" request, the waters would contain F-listed wastes and a Resource Conservation and Recovery Act (RCRA) permit may be required for the following treatment operations proposed in the NMED-approved Corrective Measures Implementation Plan for Consolidated Unit 16-021(c)-99, Revision 1 (July 2007):

- installing a permeable reactive barrier (PRB) for treatment of high explosives and barium in Cañon de Valle;

- installing carbon filters at Burning Ground Spring and Sanitary Wastewater Systems Consolidation (SWSC) Spring to treat high explosives, and

- modifying the existing carbon filter at Martin Spring to collect water from a new seep.

As discussed with Michael Dale of your staff during a December 22, 2008 meeting, the levels of contaminants in the waters to be treated are so low that a "contained-in" determination is appropriate. Therefore, a RCRA permit would not be necessary and implementation of these treatment technologies would not be delayed by permitting. To support this "contained-in" request, Table 1 compares the maximum detected concentrations of contaminants in the alluvial wells in the vicinity of the project and the springs with groundwater standards. The contaminants included in the table are those that could cause the waters to be F-listed. The comparison to groundwater standards was made in accordance with Section VIII.A.1 of the Compliance Order on Consent:

- If both a Water Quality Control Commission (WQCC) groundwater standard (20.6.2.3.3103 NMAC) and an EPA Safe Drinking Water Act Maximum Contaminant Levels (MCL) (40 Code of Federal Regulations [CFR] §141.61) have been established for an individual substance, then the lower of the two standards is used.

- If a WQCC standard and/or MCL are not available for a contaminant, EPA tap water standards are used (40 CFR §268.40).

Carbon tetrachloride (7 micrograms per liter [µg/L]) at Martin Spring is the only contaminant that exceeded a WQCC/MCL standard (5.0 µg/L). Carbon tetrachloride was detected only once (7 µg/L in July 1997) in 44 samples taken between 1995 and 2008. It has not been detected in the 40 samples collected since July 1997. Therefore, current levels of carbon tetrachloride meet applicable standards.

According to EPA documents and associated guidance, the authorized state may also make a determination on a case-specific basis as to how the Land Disposal Restrictions (LDRs) apply to the waste when a "contained-in" determination has been made. Table 1 compares the maximum detected concentrations of F-listed contaminants with the LDR Treatment Standards (40 CFR §268.40, incorporated into 20.4.800 NMAC). Because all of the maximum detected concentrations are below the LDR treatment standards, LANL also requests a determination from NMED that LDR treatment standards will not apply to untreated or treated waters or the residues from treatment.

LANL believes that a "contained-in" determination for the organic constituents shown in Table 1 is appropriate because it would be protective of human health and the environment and would expedite treatment of spring and alluvial waters in Cañon de Valle.

If you have any questions, please contact me at (505) 667-0666 or Gene Turner at (505) 667-5794.

Sincerely,

Marie Sandoval DGL

for Anthony R. Grieggs
Group Leader
Water Quality & RCRA Group (ENV-RCRA)

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John Tymkowych, ENV-RCRA, K490
EP-CAP Project File, M992
ENV-DO, file, w/o enc., J978
ENV-RCRA, File, w/enc., K490
IRM-RMMSO, w/enc., A150

Table 1. Comparison of Maximum Detections of F-Listed Contaminants to Water Quality Standards and Land Disposal Restrictions

Contaminant	Maximum Concentration (µg/L)[1]	WQCC (µg/L) or MCLs (µg/L) Standards[2]	LDR Treatment Standards (µg/L)
Burning Ground Spring			
Benzene	0.45	5.0	14
Butanone[2-]	8.1	No Standard	280
Methylene Chloride	0.44	5.0	89
Tetrachloroethene	3.9	5.0	56
Trichloroethane[1,1,1-]	0.28	60	54
Trichloroethene	3.7	5.0	54
Trichlorofluoromethane	1	No Standard	20
Martin Spring			
Butanone[2-]	2.3	No Standard	280
Carbon Disulfide	1.33	No Standard	3800
Carbon Tetrachloride	7	5.0	57
Methylene Chloride	3.12	5.0	89
Tetrachloroethene	0.62	5.0	56
Trichloro-1,2,2-trifluoroethane[1,1,2-]	2	No Standard	57
Trichloroethene	0.9	5.0	54
SWSC Spring			
Butanone[2-]	3.1	No Standard	280
Methylene Chloride	0.41	5.0	89
Tetrachloroethene	3	5.0	56
Toluene	0.55	750	800
Trichloroethene	2.4	5.0	54
Alluvial Well CDV-16-02656			
Toluene	3.68	750	800
Trichloroethene	1.1	5.0	54
Alluvial Well CDV-16-02657			
Carbon Disulfide	1.6	No Standard	3800
Alluvial Well CDV-16-02658			
Tetrachloroethene	2.6	5.0	56
Toluene	6.7	750	800
Trichloroethene	2.86	5.0	54
Alluvial Well CDV-16-02659			
Methylene Chloride	0.27	5.0	89
Toluene	0.454	750	800

µg/L = micrograms per liter
EPA = Environmental Protection Agency
LDR = Land Disposal Restrictions Treatment Standards for Hazardous Wastes, Wastewater
MCLs = Maximum Contaminant Levels
WQCC = Water Quality Control Commission

[1] Significant figures vary but are shown as they appear in the Waster Quality Database
[2] Note that EPA tap water standards were not available for any contaminants without 3101 standards and/or SDWA MCLs; therefore, EPA tap water standards were not used.