



A Waters Company

Larry Lem
Calscience Environmental Laboratories
7440 Lincoln Way
Garden Grove, CA 92841-1427

SOIL-75



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 07/18/11

Close Date: 09/01/11

Report Issued Date: 09/28/11



A Waters Company

September 29, 2011

Larry Lem
CalScience Environmental Laboratories
7440 Lincoln Way
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Enclosed is your final report for ERA's SOIL-75 Proficiency Testing (PT) study. Your final report includes an evaluation of all results submitted by your laboratory to ERA.

Data Evaluation Protocols: All analytes in ERA's SOIL-75 Proficiency Testing study have been evaluated using the following tiered approach. If the analyte is listed in the current TNI Fields of Proficiency Testing (FoPT) tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the current TNI FoPT tables. If the analyte is not included in the TNI FoPT tables, the reported result has been evaluated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260).

Please note the following changes to our final reports:

- At the request of the TNI Accreditation Council, we have included a Laboratory Exception Report that includes a list of all analytes reported with less than qualifiers when the assigned value was greater than "0." In addition, because we have received many requests from laboratories, this report also includes a list of all analytes with "Not Acceptable" evaluations.
- Some states have elected not to convert to the 2009 TNI Standards at this time. If you have released your results to a state that has retained the 2003 NELAC Evaluation Criteria, your final report will include a section that evaluates the results according to the 2003 Standard in addition to the 2009 TNI Standards.

Corrective Action Help: As part of your accreditation(s), you may be required to identify the root cause of any "Not Acceptable" results, implement the necessary corrective actions, and then satisfy your PT requirements by participating in a Supplemental (Quik™ Response) or future ERA PT study. ERA's technical staff is available to help your laboratory resolve any technical issues that may be impairing your PT performance and possibly affecting your routine data quality. Our laboratory and technical staff have well over three hundred years of collective experience in performing the full range of environmental analyses. As part of our technical support, ERA offers QC samples that can be helpful in helping you work through your technical issues.

Thank you for your participation in ERA's SOIL-75 Proficiency Testing study. If you have any questions, please contact our Proficiency Testing Department at 1-800-372-0122.

Sincerely,

A handwritten signature in black ink that reads "Jay R. McBurney".

Jay R. McBurney
Quality Program Manager

attachments
jrm



A Waters Company

Report Recipient	Contact/Phone Number	Reporting Type	Evaluation Type
California	Fred Choske / 510-620-3175	All Analytes	2009 TNI
DoD EDQW	Fred S McLean / 843-764-7266	All Analytes	2009 TNI
EPA Region 9	Andrew Lincoff / 510-412-2330	All Analytes	2009 TNI
Nevada	Sara Rairick / 775-687-9490	All Analytes	2003 NELAC
Oregon	Gary Ward / 503-693-4122	All Analytes	2009 TNI
Texas	Frank Jamison / (512) 239-3754	All Analytes	2009 TNI
Washington	Alan Rue / (360) 895-6178	All Analytes	2009 TNI
Perry Johnson Laboratory Accreditation, Inc.	Tracy Szerszen / 877-369-5227	All Analytes	2009 TNI

SOIL-75 Definitions & Study Discussion

Study Dates: 07/18/11 - 09/01/11

Report Issued: 09/28/11

SOIL Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Value for the Organic Proficiency Testing Standards is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation as applicable. The ERA assigned value for the Inorganic Proficiency Testing Standards, with the exception of the TCLP Metals in Soil, is equal to the maximum amount of the parameter available in the standard by applicable EPA methodologies. The ERA assigned value for the TCLP metals is equal to the mean of ERA's internal analytical analyses. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards. All parameters not added to the standard are given an assigned value of "< PTRL", per the guidelines contained in the 2009 TNI Standards. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT tables, or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

Acceptable = Reported Value falls within the Acceptance Limits.

Not Acceptable = Reported Value falls outside the Acceptance Limits.

No Evaluation = Reported Value cannot be evaluated.

Not Reported = No Value reported.

The Method Description is the method the laboratory reported to ERA.

SOIL Study Discussion

ERA's SOIL-75 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the 2009 TNI PT Standard and the criteria contained in the current TNI FoPT tables.

ERA's SOIL-75 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes in the standards met the acceptance criteria contained in the 2009 TNI PT Standard and the criteria contained in the current TNI Fields of Proficiency Testing (FoPT) tables.

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's SOIL-75 Proficiency Testing study reports shall not be reproduced except in its entirety and not without the permission of the participating laboratory. The report must not be used by the participating laboratories to claim product endorsement any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's SOIL Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122.



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SOIL-75 Laboratory Exception Report

Larry Lem
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2009 TNI Evaluation Check: There are no values reported with < where the assigned value was greater than 0.

2009 TNI Not Acceptable Evaluations: There were no Not Acceptable evaluations for this study.



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

2009 TNI Evaluation Report

Study: **SOIL-75**

ERA Customer Number: **C052701**

Laboratory Name: **Calscience
Environmental
Laboratories**

Inorganic Results





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SOIL-75 2009 TNI Evaluation Final Complete Report

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NELAC Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	4560 - 15600	Not Reported				10100	2490	
1005	Antimony	mg/kg		227	22.7 - 286	Not Reported				113	69.3	
1010	Arsenic	mg/kg		265	169 - 306	Not Reported				238	18.0	
1015	Barium	mg/kg		267	186 - 318	Not Reported				252	19.8	
1020	Beryllium	mg/kg		104	69.4 - 117	Not Reported				93.2	7.80	
1025	Boron	mg/kg		140	71.9 - 164	Not Reported				118	15.3	
1030	Cadmium	mg/kg		215	140 - 242	Not Reported				191	16.0	
1035	Calcium	mg/kg		6950	5080 - 8600	Not Reported				6840	601	
1040	Chromium	mg/kg		141	89.3 - 166	Not Reported				128	10.2	
1050	Cobalt	mg/kg		197	132 - 223	Not Reported				178	14.4	
1055	Copper	mg/kg		139	92.3 - 154	Not Reported				123	9.60	
1070	Iron	mg/kg		15000	4290 - 22000	Not Reported				13100	2080	
1075	Lead	mg/kg	115	112	73.0 - 132	Acceptable	EPA 7420	8/23/2011	1.44	103	8.52	
1085	Magnesium	mg/kg		3080	1980 - 4010	Not Reported				2990	360	
1090	Manganese	mg/kg		334	250 - 415	Not Reported				333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg		111	63.3 - 122	Not Reported				91.1	8.44	
1105	Nickel	mg/kg		131	85.8 - 150	Not Reported				118	10.5	
1125	Potassium	mg/kg		2930	1780 - 3950	Not Reported				2860	459	
1140	Selenium	mg/kg		123	72.6 - 148	Not Reported				110	11.9	
1150	Silver	mg/kg		51.4	31.4 - 63.2	Not Reported				47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg		581	289 - 811	Not Reported				550	68.6	
1160	Strontium	mg/kg		135	90.6 - 166	Not Reported				128	11.7	
1165	Thallium	mg/kg		176	108 - 208	Not Reported				158	12.9	
1175	Tin	mg/kg		119	61.7 - 153	Not Reported				107	11.5	
1180	Titanium	mg/kg		293	0.00 - 606	Not Reported				282	108	
1185	Vanadium	mg/kg		132	81.2 - 157	Not Reported				119	10.9	
1190	Zinc	mg/kg		192	127 - 239	Not Reported				183	15.3	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	4560 - 15600	Not Reported				10100	2490	
1005	Antimony	mg/kg		227	22.7 - 286	Not Reported				113	69.3	
1010	Arsenic	mg/kg		265	169 - 306	Not Reported				238	18.0	
1015	Barium	mg/kg		267	186 - 318	Not Reported				252	19.8	
1020	Beryllium	mg/kg		104	69.4 - 117	Not Reported				93.2	7.80	
1025	Boron	mg/kg		140	71.9 - 164	Not Reported				118	15.3	
1030	Cadmium	mg/kg		215	140 - 242	Not Reported				191	16.0	
1035	Calcium	mg/kg		6950	5080 - 8600	Not Reported				6840	601	
1040	Chromium	mg/kg		141	89.3 - 166	Not Reported				128	10.2	
1050	Cobalt	mg/kg		197	132 - 223	Not Reported				178	14.4	
1055	Copper	mg/kg		139	92.3 - 154	Not Reported				123	9.60	
1070	Iron	mg/kg		15000	4290 - 22000	Not Reported				13100	2080	
1075	Lead	mg/kg		112	73.0 - 132	Not Reported				103	8.52	
1085	Magnesium	mg/kg		3080	1980 - 4010	Not Reported				2990	360	
1090	Manganese	mg/kg		334	250 - 415	Not Reported				333	22.2	
1095	Mercury	mg/kg	12.2	12.8	6.36 - 18.4	Acceptable	EPA 7471B 1998	7/29/2011	-0.111	12.4	1.67	
1100	Molybdenum	mg/kg		111	63.3 - 122	Not Reported				91.1	8.44	
1105	Nickel	mg/kg		131	85.8 - 150	Not Reported				118	10.5	
1125	Potassium	mg/kg		2930	1780 - 3950	Not Reported				2860	459	
1140	Selenium	mg/kg		123	72.6 - 148	Not Reported				110	11.9	
1150	Silver	mg/kg		51.4	31.4 - 63.2	Not Reported				47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg		581	289 - 811	Not Reported				550	68.6	
1160	Strontium	mg/kg		135	90.6 - 166	Not Reported				128	11.7	
1165	Thallium	mg/kg		176	108 - 208	Not Reported				158	12.9	
1175	Tin	mg/kg		119	61.7 - 153	Not Reported				107	11.5	
1180	Titanium	mg/kg		293	0.00 - 606	Not Reported				282	108	
1185	Vanadium	mg/kg		132	81.2 - 157	Not Reported				119	10.9	
1190	Zinc	mg/kg		192	127 - 239	Not Reported				183	15.3	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	7960	10100	4560 - 15600	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.861	10100	2490	
1005	Antimony	mg/kg	37.0	227	22.7 - 286	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.1	113	69.3	
1010	Arsenic	mg/kg	252	265	169 - 306	Acceptable	EPA 6010B 2 1996	8/19/2011	0.799	238	18.0	
1015	Barium	mg/kg	266	267	186 - 318	Acceptable	EPA 6010B 2 1996	8/19/2011	0.704	252	19.8	
1020	Beryllium	mg/kg	98.7	104	69.4 - 117	Acceptable	EPA 6010B 2 1996	8/19/2011	0.698	93.2	7.80	
1025	Boron	mg/kg	119	140	71.9 - 164	Acceptable	EPA 6010B 2 1996	8/19/2011	0.0624	118	15.3	
1030	Cadmium	mg/kg	192	215	140 - 242	Acceptable	EPA 6010B 2 1996	8/19/2011	0.0691	191	16.0	
1035	Calcium	mg/kg	7130	6950	5080 - 8600	Acceptable	EPA 6010B 2 1996	8/19/2011	0.487	6840	601	
1040	Chromium	mg/kg	130	141	89.3 - 166	Acceptable	EPA 6010B 2 1996	8/19/2011	0.227	128	10.2	
1050	Cobalt	mg/kg	187	197	132 - 223	Acceptable	EPA 6010B 2 1996	8/19/2011	0.630	178	14.4	
1055	Copper	mg/kg	132	139	92.3 - 154	Acceptable	EPA 6010B 2 1996	8/19/2011	0.900	123	9.60	
1070	Iron	mg/kg	9870	15000	4290 - 22000	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.57	13100	2080	
1075	Lead	mg/kg	105	112	73.0 - 132	Acceptable	EPA 6010B 2 1996	8/19/2011	0.270	103	8.52	
1085	Magnesium	mg/kg	2870	3080	1980 - 4010	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.344	2990	360	
1090	Manganese	mg/kg	336	334	250 - 415	Acceptable	EPA 6010B 2 1996	8/19/2011	0.147	333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg	87.4	111	63.3 - 122	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.441	91.1	8.44	
1105	Nickel	mg/kg	124	131	85.8 - 150	Acceptable	EPA 6010B 2 1996	8/19/2011	0.582	118	10.5	
1125	Potassium	mg/kg	2530	2930	1780 - 3950	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.73	2860	459	
1140	Selenium	mg/kg	116	123	72.6 - 148	Acceptable	EPA 6010B 2 1996	8/19/2011	0.463	110	11.9	
1150	Silver	mg/kg	49.3	51.4	31.4 - 63.2	Acceptable	EPA 6010B 2 1996	8/19/2011	0.555	47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg	574	581	289 - 811	Acceptable	EPA 6010B 2 1996	8/19/2011	0.351	550	68.6	
1160	Strontium	mg/kg	140	135	90.6 - 166	Acceptable	EPA 6010B 2 1996	8/19/2011	0.979	128	11.7	
1165	Thallium	mg/kg	158	176	108 - 208	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.012	158	12.9	
1175	Tin	mg/kg	104	119	61.7 - 153	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.299	107	11.5	
1180	Titanium	mg/kg	166	293	0.00 - 606	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.07	282	108	
1185	Vanadium	mg/kg	117	132	81.2 - 157	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.206	119	10.9	
1190	Zinc	mg/kg	188	192	127 - 239	Acceptable	EPA 6010B 2 1996	8/19/2011	0.314	183	15.3	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	7460	10100	4560 - 15600	Acceptable	EPA 6020 1994	8/18/2011	-1.06	10100	2490	
1005	Antimony	mg/kg	50.1	227	22.7 - 286	Acceptable	EPA 6020 1994	8/18/2011	-0.908	113	69.3	
1010	Arsenic	mg/kg	263	265	169 - 306	Acceptable	EPA 6020 1994	8/18/2011	1.41	238	18.0	
1015	Barium	mg/kg	265	267	186 - 318	Acceptable	EPA 6020 1994	8/18/2011	0.654	252	19.8	
1020	Beryllium	mg/kg	102	104	69.4 - 117	Acceptable	EPA 6020 1994	8/18/2011	1.12	93.2	7.80	
1025	Boron	mg/kg	125	140	71.9 - 164	Acceptable	EPA 6020 1994	8/18/2011	0.453	118	15.3	
1030	Cadmium	mg/kg	207	215	140 - 242	Acceptable	EPA 6020 1994	8/18/2011	1.00	191	16.0	
1035	Calcium	mg/kg	7020	6950	5080 - 8600	Acceptable	EPA 6020 1994	8/18/2011	0.304	6840	601	
1040	Chromium	mg/kg	132	141	89.3 - 166	Acceptable	EPA 6020 1994	8/18/2011	0.424	128	10.2	
1050	Cobalt	mg/kg	187	197	132 - 223	Acceptable	EPA 6020 1994	8/18/2011	0.630	178	14.4	
1055	Copper	mg/kg	122	139	92.3 - 154	Acceptable	EPA 6020 1994	8/18/2011	-0.142	123	9.60	
1070	Iron	mg/kg	10100	15000	4290 - 22000	Acceptable	EPA 6020 1994	8/18/2011	-1.46	13100	2080	
1075	Lead	mg/kg	106	112	73.0 - 132	Acceptable	EPA 6020 1994	8/18/2011	0.387	103	8.52	
1085	Magnesium	mg/kg	2840	3080	1980 - 4010	Acceptable	EPA 6020 1994	8/18/2011	-0.428	2990	360	
1090	Manganese	mg/kg	346	334	250 - 415	Acceptable	EPA 6020 1994	8/18/2011	0.596	333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg	85.3	111	63.3 - 122	Acceptable	EPA 6020 1994	8/18/2011	-0.69	91.1	8.44	
1105	Nickel	mg/kg	121	131	85.8 - 150	Acceptable	EPA 6020 1994	8/18/2011	0.298	118	10.5	
1125	Potassium	mg/kg	2580	2930	1780 - 3950	Acceptable	EPA 6020 1994	8/18/2011	-0.621	2860	459	
1140	Selenium	mg/kg	107	123	72.6 - 148	Acceptable	EPA 6020 1994	8/18/2011	-0.294	110	11.9	
1150	Silver	mg/kg	46.2	51.4	31.4 - 63.2	Acceptable	EPA 6020 1994	8/18/2011	-0.297	47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg	583	581	289 - 811	Acceptable	EPA 6020 1994	8/18/2011	0.482	550	68.6	
1160	Strontium	mg/kg	125	135	90.6 - 166	Acceptable	EPA 6020 1994	8/18/2011	-0.304	128	11.7	
1165	Thallium	mg/kg	160	176	108 - 208	Acceptable	EPA 6020 1994	8/18/2011	0.144	158	12.9	
1175	Tin	mg/kg	109	119	61.7 - 153	Acceptable	EPA 6020 1994	8/18/2011	0.134	107	11.5	
1180	Titanium	mg/kg	190	293	0.00 - 606	Acceptable	EPA 6020 1994	8/18/2011	-0.849	282	108	
1185	Vanadium	mg/kg	118	132	81.2 - 157	Acceptable	EPA 6020 1994	8/18/2011	-0.115	119	10.9	
1190	Zinc	mg/kg	177	192	127 - 239	Acceptable	EPA 6020 1994	8/18/2011	-0.405	183	15.3	

SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	160	185	54.8 - 245	Acceptable	EPA 7199 1996	8/10/2011	0.468	150	21.3	
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SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	162	185	54.8 - 245	Acceptable	EPA 7196A 1 1992	8/11/2011	0.561	150	21.3	
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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	107	117	81.5 - 129	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.588	103	7.11	
1575	Chloride	mg/kg	212	227	127 - 305	Acceptable	EPA 300.0 2.1 1993	8/11/2011	-0.14	216	29.6	
1730	Fluoride	mg/kg	91.5	417	41.7 - 459	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.546	79.8	21.4	
1810	Nitrate as N	mg/kg	263	295	179 - 330	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.323	255	25.2	
1870	Phosphate as P	mg/kg	156	391	39.1 - 430	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.825	125	37.8	
2000	Sulfate	mg/kg	585	644	340 - 772	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.397	556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	107	117	81.5 - 129	Acceptable	EPA 9056A 2000	8/11/2011	0.588	103	7.11	
1575	Chloride	mg/kg	212	227	127 - 305	Acceptable	EPA 9056A 2000	8/11/2011	-0.14	216	29.6	
1730	Fluoride	mg/kg	91.5	417	41.7 - 459	Acceptable	EPA 9056A 2000	8/11/2011	0.546	79.8	21.4	
1810	Nitrate as N	mg/kg	263	295	179 - 330	Acceptable	EPA 9056A 2000	8/11/2011	0.323	255	25.2	
1870	Phosphate as P	mg/kg	156	391	39.1 - 430	Acceptable	EPA 9056A 2000	8/11/2011	0.825	125	37.8	
2000	Sulfate	mg/kg	585	644	340 - 772	Acceptable	EPA 9056A 2000	8/11/2011	0.397	556	72.0	





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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	103	117	81.5 - 129	Acceptable	SM4500-Br B M	8/11/2011	0.0252	103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg	250	227	127 - 305	Acceptable	SM4500Cl-C M	8/17/2011	1.14	216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg	92.7	417	41.7 - 459	Acceptable	SM4500F-C M	8/11/2011	0.602	79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	





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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg	260	295	179 - 330	Acceptable	SM4500-NO3 E M	8/11/2011	0.204	255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg	153	391	39.1 - 430	Acceptable	SM4500-P/B E M	8/10/2011	0.745	125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg	581	644	340 - 772	Acceptable	EPA 9038 1986	8/13/2011	0.341	556	72.0	

SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	24.6	25.6	11.0 - 31.4	Acceptable	EPA 9010C/9014 1996	8/5/2011	1.00	21.2	3.38	
1923	Reactive Cyanide	mg/kg	< 0.50	< 25.0		Acceptable	EPA 9010C/9014 1996	8/5/2011				





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SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg		25.6	11.0 - 31.4	Not Reported				21.2	3.38	
1923	Reactive Cyanide	mg/kg	< 0.50	< 25.0		Acceptable	SW846 Chap. 7 1996	8/5/2011				

SOIL Nutrients in Soil (cat# 869)

1515	Ammonia as N	mg/kg	692	888	345 - 1080	Acceptable	SM4500NH3 B/C M online	8/8/2011	-0.149	710	122	
1795	Total Kjeldahl Nitrogen	mg/kg	1340	1420	783 - 1910	Acceptable	SM4500N Org B online	8/4/2011	-0.046	1350	188	
2040	Total Organic Carbon (TOC)	mg/kg	3200	2300	230 - 7420	Acceptable	EPA 9060A 2002	7/26/2011	0.268	2780	1540	
1910	Total Phosphorus	mg/kg	350	343	94.2 - 567	Acceptable	SM4500P/B E M online	8/3/2011	0.248	330	78.7	

SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	9.72	10.3	9.70 - 10.9	Acceptable	EPA 9045 1986	8/2/2011	-1.81	10.1	0.204	
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SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	9.72	10.3	9.70 - 10.9	Acceptable	EPA 9040C 2002	8/15/2011	-1.81	10.1	0.204	
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SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	121	120	103 - 137	Acceptable	EPA 1010A 2002	8/15/2011	-0.148	122	5.14	
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Organic Results





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SOIL Volatiles in Soil (cat# 623)

4315	Acetone	µg/kg	330	346	40.0 - 626	Acceptable	EPA 8260B 2 1996	8/4/2011	0.445	278	116	
4320	Acetonitrile	µg/kg	532	640	145 - 1080	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.512	612	155	
4325	Acrolein	µg/kg	< 100	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4375	Benzene	µg/kg	69.1	76.0	44.7 - 105	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.913	75.3	6.77	
4385	Bromobenzene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4395	Bromodichloromethane	µg/kg	150	155	102 - 213	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.671	160	14.4	
4400	Bromoform	µg/kg	85.1	92.1	46.4 - 137	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.787	94.9	12.5	
4950	Bromomethane	µg/kg	< 25.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		8.44	0.00	
4410	2-Butanone (MEK)	µg/kg	387	390	63.8 - 612	Acceptable	EPA 8260B 2 1996	8/4/2011	0.534	338	91.4	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	202	192	81.3 - 280	Acceptable	EPA 8260B 2 1996	8/4/2011	0.418	192	23.2	
4450	Carbon disulfide	µg/kg	< 50.0	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4455	Carbon tetrachloride	µg/kg	147	157	76.5 - 232	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.86	162	17.2	
4475	Chlorobenzene	µg/kg	92.6	105	59.0 - 145	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.22	105	10.1	
4575	Chlorodibromomethane	µg/kg	160	169	104 - 232	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.75	173	17.8	
4485	Chloroethane	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		162	0.00	
4500	2-Chloroethylvinylether	µg/kg	< 50.0	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4505	Chloroform	µg/kg	182	197	120 - 274	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.691	195	19.1	
4960	Chloromethane	µg/kg	< 25.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	161	185	87.5 - 256	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.39	172	28.1	
4585	1,2-Dibromoethane (EDB)	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4595	Dibromomethane	µg/kg	< 5.00	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	8/4/2011		10.6	0.00	





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SOIL Volatiles in Soil (cat# 623) (Continued)

4610	1,2-Dichlorobenzene	µg/kg	123	135	65.2 - 191	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.19	138	12.9	
4615	1,3-Dichlorobenzene	µg/kg	139	160	62.6 - 236	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.983	159	20.1	
4620	1,4-Dichlorobenzene	µg/kg	62.4	72.9	25.2 - 104	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.34	72.7	7.72	
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4630	1,1-Dichloroethane	µg/kg	169	187	106 - 269	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.15	191	19.3	
4635	1,2-Dichloroethane	µg/kg	64.9	70.4	41.2 - 98.7	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.926	70.1	5.65	
4640	1,1-Dichloroethylene	µg/kg	129	145	102 - 204	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.4	153	17.1	
4645	cis-1,2-Dichloroethylene	µg/kg	144	154	104 - 204	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.594	154	16.8	
4700	trans-1,2-Dichloroethylene	µg/kg	67.7	72.9	49.5 - 101	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.886	75.3	8.59	
4655	1,2-Dichloropropane	µg/kg	150	161	94.1 - 215	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.925	162	13.3	
4680	cis-1,3-Dichloropropylene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4685	trans-1,3-Dichloropropylene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4765	Ethylbenzene	µg/kg	149	162	90.9 - 230	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.655	161	18.2	
4860	2-Hexanone	µg/kg	334	378	98.2 - 583	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.0817	341	80.8	
4900	Isopropylbenzene	µg/kg	104	107	66.9 - 161	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.634	114	15.7	
4975	Methylene chloride	µg/kg	165	186	87.1 - 267	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.755	184	25.0	
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	234	254	112 - 368	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.22	244	46.7	
5005	Naphthalene	µg/kg	146	149	63.3 - 236	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.125	150	28.8	
5100	Styrene	µg/kg	111	116	77.7 - 159	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.536	118	13.5	
5105	1,1,1,2-Tetrachloroethane	µg/kg	62.4	68.1	44.0 - 94.3	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.23	69.9	6.10	
5110	1,1,2,2-Tetrachloroethane	µg/kg	170	198	104 - 286	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.912	189	20.8	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Volatiles in Soil (cat# 623) (Continued)

5115	Tetrachloroethylene	µg/kg	66.9	83.9	37.4 - 121	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.33	82.5	11.7	
5140	Toluene	µg/kg	101	108	62.0 - 152	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.463	106	10.4	
5155	1,2,4-Trichlorobenzene	µg/kg	113	128	67.3 - 180	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.574	124	18.8	
5160	1,1,1-Trichloroethane	µg/kg	130	139	79.3 - 198	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.582	138	14.7	
5165	1,1,2-Trichloroethane	µg/kg	138	152	88.7 - 208	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.07	152	12.6	
5170	Trichloroethylene	µg/kg	118	128	65.8 - 182	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.895	129	12.8	
5175	Trichlorofluoromethane	µg/kg	< 50.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/kg	70.8	73.0	36.7 - 108	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.118	72.2	11.8	
5225	Vinyl acetate	µg/kg	< 50.0	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5235	Vinyl chloride	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5260	Xylenes, total	µg/kg	239	259	128 - 380	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.536	253	25.8	





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SOIL Volatiles in Soil (cat# 623)

4315	Acetone	µg/kg		346	40.0 - 626	Not Reported				278	116	
4320	Acetonitrile	µg/kg		640	145 - 1080	Not Reported				612	155	
4325	Acrolein	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
4375	Benzene	µg/kg	76.6	76.0	44.7 - 105	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.195	75.3	6.77	
4385	Bromobenzene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4395	Bromodichloromethane	µg/kg		155	102 - 213	Not Reported				160	14.4	
4400	Bromoform	µg/kg		92.1	46.4 - 137	Not Reported				94.9	12.5	
4950	Bromomethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				8.44	0.00	
4410	2-Butanone (MEK)	µg/kg		390	63.8 - 612	Not Reported				338	91.4	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	212	192	81.3 - 280	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.848	192	23.2	
4450	Carbon disulfide	µg/kg		< 12.0	0.00 - 12.0	Not Reported				0.00	0.00	
4455	Carbon tetrachloride	µg/kg		157	76.5 - 232	Not Reported				162	17.2	
4475	Chlorobenzene	µg/kg	104	105	59.0 - 145	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.0892	105	10.1	
4575	Chlorodibromomethane	µg/kg		169	104 - 232	Not Reported				173	17.8	
4485	Chloroethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				162	0.00	
4500	2-Chloroethylvinylether	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
4505	Chloroform	µg/kg		197	120 - 274	Not Reported				195	19.1	
4960	Chloromethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg		185	87.5 - 256	Not Reported				172	28.1	
4585	1,2-Dibromoethane (EDB)	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4595	Dibromomethane	µg/kg		< 12.0	0.00 - 12.0	Not Reported				10.6	0.00	





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SOIL Volatiles in Soil (cat# 623) (Continued)

4610	1,2-Dichlorobenzene	µg/kg	136	135	65.2 - 191	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.182	138	12.9	
4615	1,3-Dichlorobenzene	µg/kg	150	160	62.6 - 236	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.437	159	20.1	
4620	1,4-Dichlorobenzene	µg/kg	68.1	72.9	25.2 - 104	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.596	72.7	7.72	
4625	Dichlorodifluoromethane (Freon 12)	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
4630	1,1-Dichloroethane	µg/kg		187	106 - 269	Not Reported				191	19.3	
4635	1,2-Dichloroethane	µg/kg		70.4	41.2 - 98.7	Not Reported				70.1	5.65	
4640	1,1-Dichloroethylene	µg/kg		145	102 - 204	Not Reported				153	17.1	
4645	cis-1,2-Dichloroethylene	µg/kg		154	104 - 204	Not Reported				154	16.8	
4700	trans-1,2-Dichloroethylene	µg/kg		72.9	49.5 - 101	Not Reported				75.3	8.59	
4655	1,2-Dichloropropane	µg/kg		161	94.1 - 215	Not Reported				162	13.3	
4680	cis-1,3-Dichloropropylene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4685	trans-1,3-Dichloropropylene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4765	Ethylbenzene	µg/kg	155	162	90.9 - 230	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.326	161	18.2	
4860	2-Hexanone	µg/kg		378	98.2 - 583	Not Reported				341	80.8	
4900	Isopropylbenzene	µg/kg		107	66.9 - 161	Not Reported				114	15.7	
4975	Methylene chloride	µg/kg		186	87.1 - 267	Not Reported				184	25.0	
4995	4-Methyl-2-pentanone (MIBK)	µg/kg		254	112 - 368	Not Reported				244	46.7	
5005	Naphthalene	µg/kg		149	63.3 - 236	Not Reported				150	28.8	
5100	Styrene	µg/kg		116	77.7 - 159	Not Reported				118	13.5	
5105	1,1,1,2-Tetrachloroethane	µg/kg		68.1	44.0 - 94.3	Not Reported				69.9	6.10	
5110	1,1,2,2-Tetrachloroethane	µg/kg		198	104 - 286	Not Reported				189	20.8	





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SOIL Volatiles in Soil (cat# 623) (Continued)

5115	Tetrachloroethylene	µg/kg		83.9	37.4 - 121	Not Reported				82.5	11.7	
5140	Toluene	µg/kg	103	108	62.0 - 152	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.27	106	10.4	
5155	1,2,4-Trichlorobenzene	µg/kg		128	67.3 - 180	Not Reported				124	18.8	
5160	1,1,1-Trichloroethane	µg/kg		139	79.3 - 198	Not Reported				138	14.7	
5165	1,1,2-Trichloroethane	µg/kg		152	88.7 - 208	Not Reported				152	12.6	
5170	Trichloroethylene	µg/kg		128	65.8 - 182	Not Reported				129	12.8	
5175	Trichlorofluoromethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/kg		73.0	36.7 - 108	Not Reported				72.2	11.8	
5225	Vinyl acetate	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
5235	Vinyl chloride	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
5260	Xylenes, total	µg/kg	253	259	128 - 380	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.00734	253	25.8	





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SOIL Nitroaromatics & Nitramines in Soil (cat# 871)

9306	4-Amino-2,6-dinitrotoluene	µg/kg	2640	3100	1530 - 3530	Acceptable	EPA 8330 1994	8/4/2011	0.331	2530	332	
9303	2-Amino-4,6-dinitrotoluene	µg/kg	2420	2750	1300 - 3510	Acceptable	EPA 8330 1994	8/4/2011	0.0442	2400	369	
6160	1,3-Dinitrobenzene	µg/kg	3600	3900	2030 - 5190	Acceptable	EPA 8330 1994	8/4/2011	-0.0226	3610	528	
6185	2,4-Dinitrotoluene	µg/kg	4820	5240	1080 - 8120	Acceptable	EPA 8330 1994	8/4/2011	0.294	4600	761	
6190	2,6-Dinitrotoluene	µg/kg	4190	4380	1620 - 6750	Acceptable	EPA 8330 1994	8/4/2011	0.00909	4180	540	
9522	HMX	µg/kg	< 200	< 300	0.00 - 300	Acceptable	EPA 8330 1994	8/4/2011		0.00	0.00	
5015	Nitrobenzene	µg/kg	5950	6350	1580 - 10500	Acceptable	EPA 8330 1994	8/4/2011	-0.211	6060	548	
9507	2-Nitrotoluene	µg/kg	2910	3100	2100 - 4030	Acceptable	EPA 8330 1994	8/4/2011	-0.479	3060	322	
9510	3-Nitrotoluene	µg/kg	5580	6170	3990 - 7320	Acceptable	EPA 8330 1994	8/4/2011	-0.135	5650	555	
9513	4-Nitrotoluene	µg/kg	2640	2890	2010 - 3270	Acceptable	EPA 8330 1994	8/4/2011	-0.00501	2640	210	
9432	RDX	µg/kg	2260	2580	1320 - 3090	Acceptable	EPA 8330 1994	8/4/2011	0.184	2200	294	
6415	Tetryl	µg/kg	< 200	< 300	0.00 - 300	Acceptable	EPA 8330 1994	8/4/2011		0.00	0.00	
6885	1,3,5-Trinitrobenzene	µg/kg	3000	3620	2140 - 4420	Acceptable	EPA 8330 1994	8/4/2011	-0.739	3280	380	
9651	2,4,6-Trinitrotoluene	µg/kg	1500	2190	725 - 2410	Acceptable	EPA 8330 1994	8/4/2011	0.0168	1500	257	





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SOIL Low-Level PAHs in Soil (cat# 625)

5500	Acenaphthene	µg/kg	208	395	46.2 - 474	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.906	260	57.4	
5505	Acenaphthylene	µg/kg	212	165	30.0 - 233	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	3.04	113	32.5	
5555	Anthracene	µg/kg	344	740	102 - 905	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-1.39	503	115	
5575	Benzo(a)anthracene	µg/kg	326	441	136 - 541	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.193	339	66.2	
5585	Benzo(b)fluoranthene	µg/kg	87	75.1	20.0 - 102	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	2.41	61.0	10.8	
5600	Benzo(k)fluoranthene	µg/kg	167	215	63.6 - 271	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.0142	167	32.9	
5590	Benzo(g,h,i)perylene	µg/kg	120	147	20.0 - 211	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.237	112	35.2	
5580	Benzo(a)pyrene	µg/kg	145	183	31.9 - 231	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.466	131	29.0	
5855	Chrysene	µg/kg	160	168	38.1 - 242	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.638	140	31.3	
5895	Dibenz(a,h)anthracene	µg/kg	108	152	30.8 - 194	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.163	112	26.7	
6265	Fluoranthene	µg/kg	306	320	93.4 - 418	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	1.02	256	49.3	
6270	Fluorene	µg/kg	315	492	97.6 - 603	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.473	350	74.3	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	267	309	52.8 - 422	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.441	237	67.4	
5005	Naphthalene	µg/kg	726	831	83.1 - 1060	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	1.17	540	159	
6615	Phenanthrene	µg/kg	257	369	95.3 - 446	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.25	270	54.2	
6665	Pyrene	µg/kg	180	222	56.5 - 277	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.363	167	36.3	





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SOIL Low-Level PAHs in Soil (cat# 625)

5500	Acenaphthene	µg/kg	278	395	46.2 - 474	Acceptable	EPA 8270C SIM	8/1/2011	0.314	260	57.4	
5505	Acenaphthylene	µg/kg	106	165	30.0 - 233	Acceptable	EPA 8270C SIM	8/1/2011	-0.22	113	32.5	
5555	Anthracene	µg/kg	519	740	102 - 905	Acceptable	EPA 8270C SIM	8/1/2011	0.137	503	115	
5575	Benzo(a)anthracene	µg/kg	326	441	136 - 541	Acceptable	EPA 8270C SIM	8/1/2011	-0.193	339	66.2	
5585	Benzo(b)fluoranthene	µg/kg	51	75.1	20.0 - 102	Acceptable	EPA 8270C SIM	8/1/2011	-0.929	61.0	10.8	
5600	Benzo(k)fluoranthene	µg/kg	190	215	63.6 - 271	Acceptable	EPA 8270C SIM	8/1/2011	0.684	167	32.9	
5590	Benzo(g,h,i)perylene	µg/kg	114	147	20.0 - 211	Acceptable	EPA 8270C SIM	8/1/2011	0.0667	112	35.2	
5580	Benzo(a)pyrene	µg/kg	137	183	31.9 - 231	Acceptable	EPA 8270C SIM	8/1/2011	0.190	131	29.0	
5855	Chrysene	µg/kg	133	168	38.1 - 242	Acceptable	EPA 8270C SIM	8/1/2011	-0.224	140	31.3	
5895	Dibenz(a,h)anthracene	µg/kg	121	152	30.8 - 194	Acceptable	EPA 8270C SIM	8/1/2011	0.323	112	26.7	
6265	Fluoranthene	µg/kg	220	320	93.4 - 418	Acceptable	EPA 8270C SIM	8/1/2011	-0.721	256	49.3	
6270	Fluorene	µg/kg	365	492	97.6 - 603	Acceptable	EPA 8270C SIM	8/1/2011	0.200	350	74.3	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	233	309	52.8 - 422	Acceptable	EPA 8270C SIM	8/1/2011	-0.0635	237	67.4	
5005	Naphthalene	µg/kg	617	831	83.1 - 1060	Acceptable	EPA 8270C SIM	8/1/2011	0.483	540	159	
6615	Phenanthrene	µg/kg	265	369	95.3 - 446	Acceptable	EPA 8270C SIM	8/1/2011	-0.103	270	54.2	
6665	Pyrene	µg/kg	157	222	56.5 - 277	Acceptable	EPA 8270C SIM	8/1/2011	-0.271	167	36.3	





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SOIL Base/Neutrals and Acids in Soil (cat# 467)

5500	Acenaphthene	µg/kg	2090	2520	505 - 3090	Acceptable	EPA 8270C 3 1996	8/1/2011	0.882	1800	333	
5505	Acenaphthylene	µg/kg	1950	2310	478 - 3080	Acceptable	EPA 8270C 3 1996	8/1/2011	0.477	1780	356	
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		< 100	0.00 - 100	Not Reported				0.00	0.00	
5545	Aniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		760	0.00	
5555	Anthracene	µg/kg	4040	5980	1290 - 6720	Acceptable	EPA 8270C 3 1996	8/1/2011	0.0448	4010	724	
5595	Benzidine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5610	Benzoic acid	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5575	Benzo(a)anthracene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		3760	1080	
5585	Benzo(b)fluoranthene	µg/kg	960	1350	281 - 2030	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.871	1160	226	
5600	Benzo(k)fluoranthene	µg/kg	2680	2740	788 - 3840	Acceptable	EPA 8270C 3 1996	8/1/2011	0.882	2310	417	
5590	Benzo(g,h,i)perylene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		1870	2020	
5580	Benzo(a)pyrene	µg/kg	4950	6200	1360 - 7520	Acceptable	EPA 8270C 3 1996	8/1/2011	0.647	4440	793	
5630	Benzyl alcohol	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		4630	0.00	
5760	bis(2-Chloroethoxy)methane	µg/kg	2930	3180	551 - 4110	Acceptable	EPA 8270C 3 1996	8/1/2011	1.30	2330	460	
5765	bis(2-Chloroethyl)ether	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		2260	310	
5780	bis(2-Chloroisopropyl)ether	µg/kg	5940	8540	1110 - 9960	Acceptable	EPA 8270C 3 1996	8/1/2011	0.310	5540	1300	
5660	4-Bromophenyl-phenylether	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5670	Butylbenzylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5680	Carbazole	µg/kg		< 280	0.00 - 280	Not Reported				42.3	4.24	
5745	4-Chloroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5700	4-Chloro-3-methylphenol	µg/kg	10200	12700	3460 - 14000	Acceptable	EPA 8270C 3 1996	8/1/2011	0.891	8490	1910	





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

5790	1-Chloronaphthalene	µg/kg		< 110	0.00 - 110	Not Reported				0.00	0.00	
5795	2-Chloronaphthalene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5800	2-Chlorophenol	µg/kg	8480	10000	1620 - 11000	Acceptable	EPA 8270C 3 1996	8/1/2011	1.57	6200	1450	
5825	4-Chlorophenyl-phenylether	µg/kg	3650	4660	1220 - 5690	Acceptable	EPA 8270C 3 1996	8/1/2011	0.291	3460	666	
5855	Chrysene	µg/kg	3350	4100	1090 - 4920	Acceptable	EPA 8270C 3 1996	8/1/2011	0.616	3000	560	
5895	Dibenz(a,h)anthracene	µg/kg	1080	1580	200 - 2240	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.342	1170	270	
5905	Dibenzofuran	µg/kg	7750	11000	2820 - 13000	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.103	7910	1580	
5925	Di-n-butylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		217	0.00	
4610	1,2-Dichlorobenzene	µg/kg	6840	8780	878 - 9660	Acceptable	EPA 8270C 3 1996	8/1/2011	1.09	5080	1620	
4615	1,3-Dichlorobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		3980	0.00	
4620	1,4-Dichlorobenzene	µg/kg	7680	10700	1070 - 11800	Acceptable	EPA 8270C 3 1996	8/1/2011	0.992	5690	2000	
5945	3,3'-Dichlorobenzidine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6000	2,4-Dichlorophenol	µg/kg	9100	11100	1910 - 12200	Acceptable	EPA 8270C 3 1996	8/1/2011	1.19	7060	1710	
6005	2,6-Dichlorophenol	µg/kg		4390	866 - 4830	Not Reported				2650	594	
6070	Diethylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6130	2,4-Dimethylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		501	0.00	
6135	Dimethylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6175	2,4-Dinitrophenol	µg/kg	3890	9650	0.00 - 10600	Acceptable	EPA 8270C 3 1996	8/1/2011	1.36	1730	1590	
6185	2,4-Dinitrotoluene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6190	2,6-Dinitrotoluene	µg/kg	5800	6420	1940 - 7780	Acceptable	EPA 8270C 3 1996	8/1/2011	1.00	4860	939	
6200	Di-n-octylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6065	bis(2-Ethylhexyl)phthalate	µg/kg	5930	6740	1670 - 9080	Acceptable	EPA 8270C 3 1996	8/1/2011	0.544	5380	1020	
6265	Fluoranthene	µg/kg	1620	2030	622 - 2680	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.118	1650	252	
6270	Fluorene	µg/kg	5040	6750	2150 - 8210	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.156	5180	904	
6275	Hexachlorobenzene	µg/kg	8600	12600	4010 - 15800	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.692	9920	1900	
4835	Hexachlorobutadiene	µg/kg	4890	6160	848 - 6940	Acceptable	EPA 8270C 3 1996	8/1/2011	0.978	3890	1020	
6285	Hexachlorocyclopentadiene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
4840	Hexachloroethane	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		48.5	20.9	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1450	2010	201 - 3040	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.356	1580	362	
6320	Isophorone	µg/kg	7120	9360	2180 - 11700	Acceptable	EPA 8270C 3 1996	8/1/2011	0.104	6960	1590	
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6385	2-Methylnaphthalene	µg/kg	3500	4170	888 - 4850	Acceptable	EPA 8270C 3 1996	8/1/2011	0.957	2870	660	
6400	2-Methylphenol	µg/kg	3780	6800	680 - 7480	Acceptable	EPA 8270C 3 1996	8/1/2011	2.20	2490	584	
6410	3&4-Methylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		2540	1100	
5005	Naphthalene	µg/kg	7530	10800	2170 - 11900	Acceptable	EPA 8270C 3 1996	8/1/2011	0.335	6930	1780	
6460	2-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6465	3-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6470	4-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5015	Nitrobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6490	2-Nitrophenol	µg/kg	10900	12200	1470 - 14000	Acceptable	EPA 8270C 3 1996	8/1/2011	1.59	7720	2000	
6500	4-Nitrophenol	µg/kg	10800	12900	1290 - 17600	Acceptable	EPA 8270C 3 1996	8/1/2011	1.05	8190	2490	
6525	N-Nitrosodiethylamine	µg/kg	< 100	< 100	0.00 - 100	Not Reported				0.00	0.00	





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6530	N-Nitrosodimethylamine	µg/kg	5180	6370	565 - 7010	Acceptable	EPA 8270C 3 1996	8/1/2011	1.30	3780	1070	
6535	N-Nitrosodiphenylamine	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6545	N-Nitroso-di-n-propylamine	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6590	Pentachlorobenzene	µg/kg		< 280	0.00 - 280	Not Reported				0.00	0.00	
6605	Pentachlorophenol	µg/kg	11240	13100	1310 - 14400	Acceptable	EPA 8270C 3 1996	8/1/2011	2.04	5900	2620	
6615	Phenanthrene	µg/kg	2770	3350	978 - 4340	Acceptable	EPA 8270C 3 1996	8/1/2011	0.257	2660	422	
6625	Phenol	µg/kg	6850	8080	808 - 9610	Acceptable	EPA 8270C 3 1996	8/1/2011	1.44	5180	1160	
6665	Pyrene	µg/kg	2110	2340	680 - 3020	Acceptable	EPA 8270C 3 1996	8/1/2011	0.744	1850	350	
5095	Pyridine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		< 240	0.00 - 240	Not Reported				0.00	0.00	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		< 130	0.00 - 130	Not Reported				0.00	0.00	
5155	1,2,4-Trichlorobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6835	2,4,5-Trichlorophenol	µg/kg	4780	5190	746 - 6350	Acceptable	EPA 8270C 3 1996	8/1/2011	1.57	3550	787	
6840	2,4,6-Trichlorophenol	µg/kg	6630	8140	1460 - 8950	Acceptable	EPA 8270C 3 1996	8/1/2011	1.47	5090	1050	





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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	260	295	72.4 - 324	Acceptable	EPA 8081A 1 1996	8/1/2011	1.24	198	49.8	
7110	alpha-BHC	µg/kg	280	312	72.9 - 343	Acceptable	EPA 8081A 1 1996	8/1/2011	1.21	207	60.4	
7115	beta-BHC	µg/kg	210	178	26.4 - 239	Acceptable	EPA 8081A 1 1996	8/1/2011	1.84	133	41.9	
7105	delta-BHC	µg/kg	160	180	30.7 - 218	Acceptable	EPA 8081A 1 1996	8/1/2011	0.979	125	36.1	
7120	gamma-BHC(Lindane)	µg/kg	350	381	89.4 - 430	Acceptable	EPA 8081A 1 1996	8/1/2011	1.24	260	72.4	
7240	alpha-Chlordane	µg/kg	74.8	75.7	18.7 - 87.5	Acceptable	EPA 8081A 1 1996	8/1/2011	1.58	53.1	13.7	
7245	gamma-Chlordane	µg/kg	375	394	140 - 433	Acceptable	EPA 8081A 1 1996	8/1/2011	1.15	286	77.3	
7355	4,4'-DDD	µg/kg	390	417	129 - 497	Acceptable	EPA 8081A 1 1996	8/1/2011	0.923	313	83.6	
7360	4,4'-DDE	µg/kg	310	370	109 - 429	Acceptable	EPA 8081A 1 1996	8/1/2011	0.540	269	75.8	
7365	4,4'-DDT	µg/kg	150	136	25.8 - 181	Acceptable	EPA 8081A 1 1996	8/1/2011	1.34	103	34.7	
7470	Dieldrin	µg/kg	240	235	68.2 - 283	Acceptable	EPA 8081A 1 1996	8/1/2011	1.52	176	42.5	
7540	Endrin	µg/kg	200	181	60.1 - 226	Acceptable	EPA 8081A 1 1996	8/1/2011	1.58	143	35.8	
7530	Endrin aldehyde	µg/kg	290	439	43.9 - 483	Acceptable	EPA 8081A 1 1996	8/1/2011	1.13	206	74.5	
7535	Endrin ketone	µg/kg	250	293	54.9 - 322	Acceptable	EPA 8081A 1 1996	8/1/2011	1.32	184	50.2	
7510	Endosulfan I	µg/kg	220	406	51.7 - 447	Acceptable	EPA 8081A 1 1996	8/1/2011	1.69	148	42.6	
7515	Endosulfan II	µg/kg	240	405	53.7 - 446	Acceptable	EPA 8081A 1 1996	8/1/2011	1.52	162	51.6	
7520	Endosulfan sulfate	µg/kg	240	222	37.4 - 271	Acceptable	EPA 8081A 1 1996	8/1/2011	1.86	154	46.2	
7685	Heptachlor	µg/kg	450	469	118 - 527	Acceptable	EPA 8081A 1 1996	8/1/2011	1.36	322	93.5	
7690	Heptachlor epoxide	µg/kg	210	220	65.5 - 256	Acceptable	EPA 8081A 1 1996	8/1/2011	1.18	161	41.5	
7810	Methoxychlor	µg/kg	260	269	26.9 - 393	Acceptable	EPA 8081A 1 1996	8/1/2011	0.812	207	64.9	

SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	810	915	176 - 1150	Acceptable	EPA 8081A 1 1996	8/2/2011	0.937	661	159	
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	430	491	49.1 - 726	Acceptable	EPA 8081A 1 1996	8/2/2011	0.396	385	114	
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SOIL Organophosphorus Pesticides in Soil (cat# 878)

7075	Azinphos-methyl (Guthion)	µg/kg	235	302	0.00 - 486	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.281	209	92.3	
7300	Chlorpyrifos	µg/kg	367	719	0.00 - 791	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.523	302	124	
7395	Demeton-O	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
7385	Demeton-S	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
7410	Diazinon	µg/kg	454	738	91.1 - 818	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	-0.00493	454	121	
8610	Dichlorvos (DDVP)	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
8625	Disulfoton	µg/kg	221	366	0.00 - 403	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.582	184	64.1	
7955	Ethyl Parathion	µg/kg	210	196	0.174 - 301	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	1.19	150	50.1	
7770	Malathion	µg/kg	456	577	0.00 - 755	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.916	324	143	
7825	Methyl Parathion	µg/kg	636	947	55.6 - 1040	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.867	506	150	
7985	Phorate	µg/kg	452	620	10.1 - 800	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.354	405	132	
8110	Ronnel	µg/kg	430	804	0.00 - 884	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.229	394	158	
8200	Stirophos (tetrachlorovinphos)	µg/kg	150	756	0.00 - 832	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.332	124	77.0	
8185	Terbufos	µg/kg		220	0.00 - 447	Not Reported				194	84.4	





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SOIL Chlorinated Acid Herbicides in Soil (cat# 626)

8505	Acifluorfen	µg/kg		648	0.00 - 713	Not Reported				231	96.2	
8530	Bentazon	µg/kg		367	56.0 - 408	Not Reported				232	58.6	
8540	Chloramben	µg/kg		241	0.00 - 265	Not Reported				96.7	33.8	
8545	2,4-D	µg/kg	358	464	46.4 - 803	Acceptable	EPA 8151A 1998	8/1/2011	0.402	289	171	
8560	2,4-DB	µg/kg	263	390	0.00 - 540	Acceptable	EPA 8151A 1998	8/1/2011	0.148	248	97.3	
8550	Dacthal diacid (DCPA)	µg/kg		661	0.00 - 1090	Not Reported				299	264	
8555	Dalapon	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8151A 1998	8/1/2011		225	0.00	
8595	Dicamba	µg/kg	485	618	61.8 - 1020	Acceptable	EPA 8151A 1998	8/1/2011	0.584	355	223	
8600	3,5-Dichlorobenzoic acid	µg/kg		360	0.00 - 485	Not Reported				219	88.7	
8605	Dichlorprop	µg/kg	157	187	0.00 - 273	Acceptable	EPA 8151A 1998	8/1/2011	0.894	108	55.3	
8620	Dinoseb	µg/kg	27	321	0.00 - 492	Acceptable	EPA 8151A 1998	8/1/2011	-1.15	155	112	
7775	MCPA	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	8/1/2011		0.00	0.00	
7780	MCPP	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	8/1/2011		2230	0.00	
6500	4-Nitrophenol	µg/kg		424	0.00 - 857	Not Reported				319	179	
6605	Pentachlorophenol	µg/kg		334	0.00 - 476	Not Reported				216	86.4	
8645	Picloram	µg/kg		239	0.00 - 327	Not Reported				115	70.6	
8655	2,4,5-T	µg/kg	385	557	55.7 - 936	Acceptable	EPA 8151A 1998	8/1/2011	0.237	338	200	
8650	2,4,5-TP (Silvex)	µg/kg	161	209	20.9 - 338	Acceptable	EPA 8151A 1998	8/1/2011	0.402	134	68.0	

SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		6880	0.00	
8885	Aroclor 1221	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		0.00	0.00	
8890	Aroclor 1232	mg/kg	16.2	19.4	4.78 - 26.5	Acceptable	EPA 8082 1996	8/1/2011	0.116	15.6	4.70	
8895	Aroclor 1242	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		7.59	1.79	
8900	Aroclor 1248	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		9.18	0.00	
8905	Aroclor 1254	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		0.00	0.00	
8910	Aroclor 1260	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		221	0.00	



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SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	94.6	102	60.8 - 140	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.489	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	75.8	71.2	29.7 - 110	Acceptable	EPA 8260B 2 1996	8/5/2011	0.402	72.4	8.56	
4765	Ethylbenzene	µg/kg	143	158	88.6 - 225	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.854	155	14.3	
5140	Toluene	µg/kg	147	159	91.7 - 223	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.586	159	20.0	
5260	Xylenes, total	µg/kg	235	262	130 - 384	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.772	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	94.6	102	60.8 - 140	Acceptable	AK101-EPA 8260B	8/5/2011	-0.489	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	75.8	71.2	29.7 - 110	Acceptable	AK101-EPA 8260B	8/5/2011	0.402	72.4	8.56	
4765	Ethylbenzene	µg/kg	143	158	88.6 - 225	Acceptable	AK101-EPA 8260B	8/5/2011	-0.854	155	14.3	
5140	Toluene	µg/kg	147	159	91.7 - 223	Acceptable	AK101-EPA 8260B	8/5/2011	-0.586	159	20.0	
5260	Xylenes, total	µg/kg	235	262	130 - 384	Acceptable	AK101-EPA 8260B	8/5/2011	-0.772	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	90.0	102	60.8 - 140	Acceptable	EPA 8021B 2 1996	8/10/2011	-0.92	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	80.6	71.2	29.7 - 110	Acceptable	EPA 8021B 2 1996	8/10/2011	0.963	72.4	8.56	
4765	Ethylbenzene	µg/kg	133	158	88.6 - 225	Acceptable	EPA 8021B 2 1996	8/10/2011	-1.56	155	14.3	
5140	Toluene	µg/kg	139	159	91.7 - 223	Acceptable	EPA 8021B 2 1996	8/10/2011	-0.985	159	20.0	
5260	Xylenes, total	µg/kg	219	262	130 - 384	Acceptable	EPA 8021B 2 1996	8/10/2011	-1.51	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	90.0	102	60.8 - 140	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-0.92	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	80.6	71.2	29.7 - 110	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	0.963	72.4	8.56	
4765	Ethylbenzene	µg/kg	133	158	88.6 - 225	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-1.56	155	14.3	
5140	Toluene	µg/kg	139	159	91.7 - 223	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-0.985	159	20.0	
5260	Xylenes, total	µg/kg	219	262	130 - 384	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-1.51	252	21.7	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	EPA 8015B 2 1996	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg		793	79.3 - 1190	Not Reported				617	172	
4375	Benzene in GRO	mg/kg	6.23	8.47	0.00 - 10.2	Acceptable	EPA 8021B 2 1996	8/10/2011	1.16	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	20.4	25.4	4.17 - 34.4	Acceptable	EPA 8021B 2 1996	8/10/2011	0.224	19.3	5.04	
5140	Toluene in GRO	mg/kg	41.5	73.8	0.00 - 81.2	Acceptable	EPA 8021B 2 1996	8/10/2011	0.460	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	65.9	74.8	0.00 - 115	Acceptable	EPA 8021B 2 1996	8/10/2011	0.482	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	CA LUFT GC 1989	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg	6.23	8.47	0.00 - 10.2	Acceptable	CA LUFT GC 1989	8/10/2011	1.16	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	20.4	25.4	4.17 - 34.4	Acceptable	CA LUFT GC 1989	8/10/2011	0.224	19.3	5.04	
5140	Toluene in GRO	mg/kg	41.5	73.8	0.00 - 81.2	Acceptable	CA LUFT GC 1989	8/10/2011	0.460	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	65.9	74.8	0.00 - 115	Acceptable	CA LUFT GC 1989	8/10/2011	0.482	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	NWTPH-Gx 1997	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	EPA 8015B (M) 2 1996	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	AK 101 GC	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	EPA 8260B 2 1996	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	EPA 8260B 2 1996	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	EPA 8260B 2 1996	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	EPA 8260B 2 1996	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	EPA 8260B 2 1996	8/10/2011	0.600	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	AK101-EPA 8260	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	AK101-EPA 8260	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	AK101-EPA 8260	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	AK101-EPA 8260	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	AK101-EPA 8260	8/10/2011	0.600	56.5	19.5	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	CA LUFT GCMS 1989	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	CA LUFT GCMS 1989	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.600	56.5	19.5	

SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	EPA 8015B 2 1996	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	NWTPH-Dx 1997	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	CA LUFT GC 1989	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	EPA 8015B (M) 2 1996	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	AK101 DRO GC	8/1/2011	1.06	1430	346	
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SOIL Total Petroleum Hydrocarbons (TPH) in Soil (cat# 632)

1935	non-Polar Extractable Material(TPH)(Grav)	mg/kg		939	157 - 1430	Not Reported				794	195	
1935	non-Polar Extractable Material(TPH)(IR)	mg/kg	1320	1150	507 - 2400	Acceptable	EPA 418.1 1978	8/2/2011	-0.417	1460	326	



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Inorganic Results



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	4560 - 15600	Not Reported				10100	2490	
1005	Antimony	mg/kg		227	22.7 - 286	Not Reported				113	69.3	
1010	Arsenic	mg/kg		265	169 - 306	Not Reported				238	18.0	
1015	Barium	mg/kg		267	186 - 318	Not Reported				252	19.8	
1020	Beryllium	mg/kg		104	69.4 - 117	Not Reported				93.2	7.80	
1025	Boron	mg/kg		140	71.9 - 164	Not Reported				118	15.3	
1030	Cadmium	mg/kg		215	140 - 242	Not Reported				191	16.0	
1035	Calcium	mg/kg		6950	5080 - 8600	Not Reported				6840	601	
1040	Chromium	mg/kg		141	89.3 - 166	Not Reported				128	10.2	
1050	Cobalt	mg/kg		197	132 - 223	Not Reported				178	14.4	
1055	Copper	mg/kg		139	92.3 - 154	Not Reported				123	9.60	
1070	Iron	mg/kg		15000	4290 - 22000	Not Reported				13100	2080	
1075	Lead	mg/kg	115	112	73.0 - 132	Acceptable	EPA 7420	8/23/2011	1.44	103	8.52	
1085	Magnesium	mg/kg		3080	1980 - 4010	Not Reported				2990	360	
1090	Manganese	mg/kg		334	250 - 415	Not Reported				333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg		111	63.3 - 122	Not Reported				91.1	8.44	
1105	Nickel	mg/kg		131	85.8 - 150	Not Reported				118	10.5	
1125	Potassium	mg/kg		2930	1780 - 3950	Not Reported				2860	459	
1140	Selenium	mg/kg		123	72.6 - 148	Not Reported				110	11.9	
1150	Silver	mg/kg		51.4	31.4 - 63.2	Not Reported				47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg		581	289 - 811	Not Reported				550	68.6	
1160	Strontium	mg/kg		135	90.6 - 166	Not Reported				128	11.7	
1165	Thallium	mg/kg		176	108 - 208	Not Reported				158	12.9	
1175	Tin	mg/kg		119	61.7 - 153	Not Reported				107	11.5	
1180	Titanium	mg/kg		293	0.00 - 606	Not Reported				282	108	
1185	Vanadium	mg/kg		132	81.2 - 157	Not Reported				119	10.9	
1190	Zinc	mg/kg		192	127 - 239	Not Reported				183	15.3	



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg		10100	4560 - 15600	Not Reported				10100	2490	
1005	Antimony	mg/kg		227	22.7 - 286	Not Reported				113	69.3	
1010	Arsenic	mg/kg		265	169 - 306	Not Reported				238	18.0	
1015	Barium	mg/kg		267	186 - 318	Not Reported				252	19.8	
1020	Beryllium	mg/kg		104	69.4 - 117	Not Reported				93.2	7.80	
1025	Boron	mg/kg		140	71.9 - 164	Not Reported				118	15.3	
1030	Cadmium	mg/kg		215	140 - 242	Not Reported				191	16.0	
1035	Calcium	mg/kg		6950	5080 - 8600	Not Reported				6840	601	
1040	Chromium	mg/kg		141	89.3 - 166	Not Reported				128	10.2	
1050	Cobalt	mg/kg		197	132 - 223	Not Reported				178	14.4	
1055	Copper	mg/kg		139	92.3 - 154	Not Reported				123	9.60	
1070	Iron	mg/kg		15000	4290 - 22000	Not Reported				13100	2080	
1075	Lead	mg/kg		112	73.0 - 132	Not Reported				103	8.52	
1085	Magnesium	mg/kg		3080	1980 - 4010	Not Reported				2990	360	
1090	Manganese	mg/kg		334	250 - 415	Not Reported				333	22.2	
1095	Mercury	mg/kg	12.2	12.8	6.36 - 18.4	Acceptable	EPA 7471B 1998	7/29/2011	-0.111	12.4	1.67	
1100	Molybdenum	mg/kg		111	63.3 - 122	Not Reported				91.1	8.44	
1105	Nickel	mg/kg		131	85.8 - 150	Not Reported				118	10.5	
1125	Potassium	mg/kg		2930	1780 - 3950	Not Reported				2860	459	
1140	Selenium	mg/kg		123	72.6 - 148	Not Reported				110	11.9	
1150	Silver	mg/kg		51.4	31.4 - 63.2	Not Reported				47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg		581	289 - 811	Not Reported				550	68.6	
1160	Strontium	mg/kg		135	90.6 - 166	Not Reported				128	11.7	
1165	Thallium	mg/kg		176	108 - 208	Not Reported				158	12.9	
1175	Tin	mg/kg		119	61.7 - 153	Not Reported				107	11.5	
1180	Titanium	mg/kg		293	0.00 - 606	Not Reported				282	108	
1185	Vanadium	mg/kg		132	81.2 - 157	Not Reported				119	10.9	
1190	Zinc	mg/kg		192	127 - 239	Not Reported				183	15.3	



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	7960	10100	4560 - 15600	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.861	10100	2490	
1005	Antimony	mg/kg	37.0	227	22.7 - 286	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.1	113	69.3	
1010	Arsenic	mg/kg	252	265	169 - 306	Acceptable	EPA 6010B 2 1996	8/19/2011	0.799	238	18.0	
1015	Barium	mg/kg	266	267	186 - 318	Acceptable	EPA 6010B 2 1996	8/19/2011	0.704	252	19.8	
1020	Beryllium	mg/kg	98.7	104	69.4 - 117	Acceptable	EPA 6010B 2 1996	8/19/2011	0.698	93.2	7.80	
1025	Boron	mg/kg	119	140	71.9 - 164	Acceptable	EPA 6010B 2 1996	8/19/2011	0.0624	118	15.3	
1030	Cadmium	mg/kg	192	215	140 - 242	Acceptable	EPA 6010B 2 1996	8/19/2011	0.0691	191	16.0	
1035	Calcium	mg/kg	7130	6950	5080 - 8600	Acceptable	EPA 6010B 2 1996	8/19/2011	0.487	6840	601	
1040	Chromium	mg/kg	130	141	89.3 - 166	Acceptable	EPA 6010B 2 1996	8/19/2011	0.227	128	10.2	
1050	Cobalt	mg/kg	187	197	132 - 223	Acceptable	EPA 6010B 2 1996	8/19/2011	0.630	178	14.4	
1055	Copper	mg/kg	132	139	92.3 - 154	Acceptable	EPA 6010B 2 1996	8/19/2011	0.900	123	9.60	
1070	Iron	mg/kg	9870	15000	4290 - 22000	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.57	13100	2080	
1075	Lead	mg/kg	105	112	73.0 - 132	Acceptable	EPA 6010B 2 1996	8/19/2011	0.270	103	8.52	
1085	Magnesium	mg/kg	2870	3080	1980 - 4010	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.344	2990	360	
1090	Manganese	mg/kg	336	334	250 - 415	Acceptable	EPA 6010B 2 1996	8/19/2011	0.147	333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg	87.4	111	63.3 - 122	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.441	91.1	8.44	
1105	Nickel	mg/kg	124	131	85.8 - 150	Acceptable	EPA 6010B 2 1996	8/19/2011	0.582	118	10.5	
1125	Potassium	mg/kg	2530	2930	1780 - 3950	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.73	2860	459	
1140	Selenium	mg/kg	116	123	72.6 - 148	Acceptable	EPA 6010B 2 1996	8/19/2011	0.463	110	11.9	
1150	Silver	mg/kg	49.3	51.4	31.4 - 63.2	Acceptable	EPA 6010B 2 1996	8/19/2011	0.555	47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg	574	581	289 - 811	Acceptable	EPA 6010B 2 1996	8/19/2011	0.351	550	68.6	
1160	Strontium	mg/kg	140	135	90.6 - 166	Acceptable	EPA 6010B 2 1996	8/19/2011	0.979	128	11.7	
1165	Thallium	mg/kg	158	176	108 - 208	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.012	158	12.9	
1175	Tin	mg/kg	104	119	61.7 - 153	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.299	107	11.5	
1180	Titanium	mg/kg	166	293	0.00 - 606	Acceptable	EPA 6010B 2 1996	8/19/2011	-1.07	282	108	
1185	Vanadium	mg/kg	117	132	81.2 - 157	Acceptable	EPA 6010B 2 1996	8/19/2011	-0.206	119	10.9	
1190	Zinc	mg/kg	188	192	127 - 239	Acceptable	EPA 6010B 2 1996	8/19/2011	0.314	183	15.3	



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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	7460	10100	4560 - 15600	Acceptable	EPA 6020 1994	8/18/2011	-1.06	10100	2490	
1005	Antimony	mg/kg	50.1	227	22.7 - 286	Acceptable	EPA 6020 1994	8/18/2011	-0.908	113	69.3	
1010	Arsenic	mg/kg	263	265	169 - 306	Acceptable	EPA 6020 1994	8/18/2011	1.41	238	18.0	
1015	Barium	mg/kg	265	267	186 - 318	Acceptable	EPA 6020 1994	8/18/2011	0.654	252	19.8	
1020	Beryllium	mg/kg	102	104	69.4 - 117	Acceptable	EPA 6020 1994	8/18/2011	1.12	93.2	7.80	
1025	Boron	mg/kg	125	140	71.9 - 164	Acceptable	EPA 6020 1994	8/18/2011	0.453	118	15.3	
1030	Cadmium	mg/kg	207	215	140 - 242	Acceptable	EPA 6020 1994	8/18/2011	1.00	191	16.0	
1035	Calcium	mg/kg	7020	6950	5080 - 8600	Acceptable	EPA 6020 1994	8/18/2011	0.304	6840	601	
1040	Chromium	mg/kg	132	141	89.3 - 166	Acceptable	EPA 6020 1994	8/18/2011	0.424	128	10.2	
1050	Cobalt	mg/kg	187	197	132 - 223	Acceptable	EPA 6020 1994	8/18/2011	0.630	178	14.4	
1055	Copper	mg/kg	122	139	92.3 - 154	Acceptable	EPA 6020 1994	8/18/2011	-0.142	123	9.60	
1070	Iron	mg/kg	10100	15000	4290 - 22000	Acceptable	EPA 6020 1994	8/18/2011	-1.46	13100	2080	
1075	Lead	mg/kg	106	112	73.0 - 132	Acceptable	EPA 6020 1994	8/18/2011	0.387	103	8.52	
1085	Magnesium	mg/kg	2840	3080	1980 - 4010	Acceptable	EPA 6020 1994	8/18/2011	-0.428	2990	360	
1090	Manganese	mg/kg	346	334	250 - 415	Acceptable	EPA 6020 1994	8/18/2011	0.596	333	22.2	
1095	Mercury	mg/kg		12.8	6.36 - 18.4	Not Reported				12.4	1.67	
1100	Molybdenum	mg/kg	85.3	111	63.3 - 122	Acceptable	EPA 6020 1994	8/18/2011	-0.69	91.1	8.44	
1105	Nickel	mg/kg	121	131	85.8 - 150	Acceptable	EPA 6020 1994	8/18/2011	0.298	118	10.5	
1125	Potassium	mg/kg	2580	2930	1780 - 3950	Acceptable	EPA 6020 1994	8/18/2011	-0.621	2860	459	
1140	Selenium	mg/kg	107	123	72.6 - 148	Acceptable	EPA 6020 1994	8/18/2011	-0.294	110	11.9	
1150	Silver	mg/kg	46.2	51.4	31.4 - 63.2	Acceptable	EPA 6020 1994	8/18/2011	-0.297	47.3	3.64	





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SOIL Metals in Soil (cat# 620) (Continued)

1155	Sodium	mg/kg	583	581	289 - 811	Acceptable	EPA 6020 1994	8/18/2011	0.482	550	68.6	
1160	Strontium	mg/kg	125	135	90.6 - 166	Acceptable	EPA 6020 1994	8/18/2011	-0.304	128	11.7	
1165	Thallium	mg/kg	160	176	108 - 208	Acceptable	EPA 6020 1994	8/18/2011	0.144	158	12.9	
1175	Tin	mg/kg	109	119	61.7 - 153	Acceptable	EPA 6020 1994	8/18/2011	0.134	107	11.5	
1180	Titanium	mg/kg	190	293	0.00 - 606	Acceptable	EPA 6020 1994	8/18/2011	-0.849	282	108	
1185	Vanadium	mg/kg	118	132	81.2 - 157	Acceptable	EPA 6020 1994	8/18/2011	-0.115	119	10.9	
1190	Zinc	mg/kg	177	192	127 - 239	Acceptable	EPA 6020 1994	8/18/2011	-0.405	183	15.3	

SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	160	185	54.8 - 245	Acceptable	EPA 7199 1996	8/10/2011	0.468	150	21.3	
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SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	162	185	54.8 - 245	Acceptable	EPA 7196A 1 1992	8/11/2011	0.561	150	21.3	
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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	107	117	81.5 - 129	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.588	103	7.11	
1575	Chloride	mg/kg	212	227	127 - 305	Acceptable	EPA 300.0 2.1 1993	8/11/2011	-0.14	216	29.6	
1730	Fluoride	mg/kg	91.5	417	41.7 - 459	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.546	79.8	21.4	
1810	Nitrate as N	mg/kg	263	295	179 - 330	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.323	255	25.2	
1870	Phosphate as P	mg/kg	156	391	39.1 - 430	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.825	125	37.8	
2000	Sulfate	mg/kg	585	644	340 - 772	Acceptable	EPA 300.0 2.1 1993	8/11/2011	0.397	556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	107	117	81.5 - 129	Acceptable	EPA 9056A 2000	8/11/2011	0.588	103	7.11	
1575	Chloride	mg/kg	212	227	127 - 305	Acceptable	EPA 9056A 2000	8/11/2011	-0.14	216	29.6	
1730	Fluoride	mg/kg	91.5	417	41.7 - 459	Acceptable	EPA 9056A 2000	8/11/2011	0.546	79.8	21.4	
1810	Nitrate as N	mg/kg	263	295	179 - 330	Acceptable	EPA 9056A 2000	8/11/2011	0.323	255	25.2	
1870	Phosphate as P	mg/kg	156	391	39.1 - 430	Acceptable	EPA 9056A 2000	8/11/2011	0.825	125	37.8	
2000	Sulfate	mg/kg	585	644	340 - 772	Acceptable	EPA 9056A 2000	8/11/2011	0.397	556	72.0	



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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg	103	117	81.5 - 129	Acceptable	SM4500-Br B M	8/11/2011	0.0252	103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg	250	227	127 - 305	Acceptable	SM4500Cl-C M	8/17/2011	1.14	216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg	92.7	417	41.7 - 459	Acceptable	SM4500F-C M	8/11/2011	0.602	79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	





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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg	260	295	179 - 330	Acceptable	SM4500-NO3 E M	8/11/2011	0.204	255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg	153	391	39.1 - 430	Acceptable	SM4500-P/B E M	8/10/2011	0.745	125	37.8	
2000	Sulfate	mg/kg		644	340 - 772	Not Reported				556	72.0	

SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		117	81.5 - 129	Not Reported				103	7.11	
1575	Chloride	mg/kg		227	127 - 305	Not Reported				216	29.6	
1730	Fluoride	mg/kg		417	41.7 - 459	Not Reported				79.8	21.4	
1810	Nitrate as N	mg/kg		295	179 - 330	Not Reported				255	25.2	
1870	Phosphate as P	mg/kg		391	39.1 - 430	Not Reported				125	37.8	
2000	Sulfate	mg/kg	581	644	340 - 772	Acceptable	EPA 9038 1986	8/13/2011	0.341	556	72.0	

SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	24.6	25.6	11.0 - 31.4	Acceptable	EPA 9010C/9014 1996	8/5/2011	1.00	21.2	3.38	
1923	Reactive Cyanide	mg/kg	< 0.50	< 25.0		Acceptable	EPA 9010C/9014 1996	8/5/2011				



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SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg		25.6	11.0 - 31.4	Not Reported				21.2	3.38	
1923	Reactive Cyanide	mg/kg	< 0.50	< 25.0		Acceptable	SW846 Chap. 7 1996	8/5/2011				

SOIL Nutrients in Soil (cat# 869)

1515	Ammonia as N	mg/kg	692	888	345 - 1080	Acceptable	SM4500NH3 B/C M online	8/8/2011	-0.149	710	122	
1795	Total Kjeldahl Nitrogen	mg/kg	1340	1420	783 - 1910	Acceptable	SM4500N Org B online	8/4/2011	-0.046	1350	188	
2040	Total Organic Carbon (TOC)	mg/kg	3200	2300	230 - 7420	Acceptable	EPA 9060A 2002	7/26/2011	0.268	2780	1540	
1910	Total Phosphorus	mg/kg	350	343	94.2 - 567	Acceptable	SM4500P/B E M online	8/3/2011	0.248	330	78.7	

SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	9.72	10.3	9.70 - 10.9	Acceptable	EPA 9045 1986	8/2/2011	-1.81	10.1	0.204	
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SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	9.72	10.3	9.70 - 10.9	Acceptable	EPA 9040C 2002	8/15/2011	-1.81	10.1	0.204	
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SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	121	120	103 - 137	Acceptable	EPA 1010A 2002	8/15/2011	-0.148	122	5.14	
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Laboratory Name: **Calscience
Environmental
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Organic Results





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SOIL Volatiles in Soil (cat# 623)

4315	Acetone	µg/kg	330	346	40.0 - 626	Acceptable	EPA 8260B 2 1996	8/4/2011	0.445	278	116	
4320	Acetonitrile	µg/kg	532	640	145 - 1080	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.512	612	155	
4325	Acrolein	µg/kg	< 100	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4375	Benzene	µg/kg	69.1	76.0	44.7 - 105	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.913	75.3	6.77	
4385	Bromobenzene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4395	Bromodichloromethane	µg/kg	150	155	102 - 213	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.671	160	14.4	
4400	Bromoform	µg/kg	85.1	92.1	46.4 - 137	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.787	94.9	12.5	
4950	Bromomethane	µg/kg	< 25.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		8.44	0.00	
4410	2-Butanone (MEK)	µg/kg	387	390	63.8 - 612	Acceptable	EPA 8260B 2 1996	8/4/2011	0.534	338	91.4	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	202	192	81.3 - 280	Acceptable	EPA 8260B 2 1996	8/4/2011	0.418	192	23.2	
4450	Carbon disulfide	µg/kg	< 50.0	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4455	Carbon tetrachloride	µg/kg	147	157	76.5 - 232	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.86	162	17.2	
4475	Chlorobenzene	µg/kg	92.6	105	59.0 - 145	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.22	105	10.1	
4575	Chlorodibromomethane	µg/kg	160	169	104 - 232	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.75	173	17.8	
4485	Chloroethane	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		162	0.00	
4500	2-Chloroethylvinylether	µg/kg	< 50.0	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4505	Chloroform	µg/kg	182	197	120 - 274	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.691	195	19.1	
4960	Chloromethane	µg/kg	< 25.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	161	185	87.5 - 256	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.39	172	28.1	
4585	1,2-Dibromoethane (EDB)	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4595	Dibromomethane	µg/kg	< 5.00	< 12.0	0.00 - 12.0	Acceptable	EPA 8260B 2 1996	8/4/2011		10.6	0.00	





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SOIL Volatiles in Soil (cat# 623) (Continued)

4610	1,2-Dichlorobenzene	µg/kg	123	135	65.2 - 191	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.19	138	12.9	
4615	1,3-Dichlorobenzene	µg/kg	139	160	62.6 - 236	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.983	159	20.1	
4620	1,4-Dichlorobenzene	µg/kg	62.4	72.9	25.2 - 104	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.34	72.7	7.72	
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4630	1,1-Dichloroethane	µg/kg	169	187	106 - 269	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.15	191	19.3	
4635	1,2-Dichloroethane	µg/kg	64.9	70.4	41.2 - 98.7	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.926	70.1	5.65	
4640	1,1-Dichloroethylene	µg/kg	129	145	102 - 204	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.4	153	17.1	
4645	cis-1,2-Dichloroethylene	µg/kg	144	154	104 - 204	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.594	154	16.8	
4700	trans-1,2-Dichloroethylene	µg/kg	67.7	72.9	49.5 - 101	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.886	75.3	8.59	
4655	1,2-Dichloropropane	µg/kg	150	161	94.1 - 215	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.925	162	13.3	
4680	cis-1,3-Dichloropropylene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4685	trans-1,3-Dichloropropylene	µg/kg	< 5.00	< 10.0	0.00 - 10.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
4765	Ethylbenzene	µg/kg	149	162	90.9 - 230	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.655	161	18.2	
4860	2-Hexanone	µg/kg	334	378	98.2 - 583	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.0817	341	80.8	
4900	Isopropylbenzene	µg/kg	104	107	66.9 - 161	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.634	114	15.7	
4975	Methylene chloride	µg/kg	165	186	87.1 - 267	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.755	184	25.0	
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	234	254	112 - 368	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.22	244	46.7	
5005	Naphthalene	µg/kg	146	149	63.3 - 236	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.125	150	28.8	
5100	Styrene	µg/kg	111	116	77.7 - 159	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.536	118	13.5	
5105	1,1,1,2-Tetrachloroethane	µg/kg	62.4	68.1	44.0 - 94.3	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.23	69.9	6.10	
5110	1,1,2,2-Tetrachloroethane	µg/kg	170	198	104 - 286	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.912	189	20.8	





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SOIL Volatiles in Soil (cat# 623) (Continued)

5115	Tetrachloroethylene	µg/kg	66.9	83.9	37.4 - 121	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.33	82.5	11.7	
5140	Toluene	µg/kg	101	108	62.0 - 152	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.463	106	10.4	
5155	1,2,4-Trichlorobenzene	µg/kg	113	128	67.3 - 180	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.574	124	18.8	
5160	1,1,1-Trichloroethane	µg/kg	130	139	79.3 - 198	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.582	138	14.7	
5165	1,1,2-Trichloroethane	µg/kg	138	152	88.7 - 208	Acceptable	EPA 8260B 2 1996	8/4/2011	-1.07	152	12.6	
5170	Trichloroethylene	µg/kg	118	128	65.8 - 182	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.895	129	12.8	
5175	Trichlorofluoromethane	µg/kg	< 50.0	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/kg	70.8	73.0	36.7 - 108	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.118	72.2	11.8	
5225	Vinyl acetate	µg/kg	< 50.0	< 2.00	0.00 - 2.00	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5235	Vinyl chloride	µg/kg	< 5.00	< 20.0	0.00 - 20.0	Acceptable	EPA 8260B 2 1996	8/4/2011		0.00	0.00	
5260	Xylenes, total	µg/kg	239	259	128 - 380	Acceptable	EPA 8260B 2 1996	8/4/2011	-0.536	253	25.8	





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SOIL Volatiles in Soil (cat# 623)

4315	Acetone	µg/kg		346	40.0 - 626	Not Reported				278	116	
4320	Acetonitrile	µg/kg		640	145 - 1080	Not Reported				612	155	
4325	Acrolein	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
4375	Benzene	µg/kg	76.6	76.0	44.7 - 105	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.195	75.3	6.77	
4385	Bromobenzene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4395	Bromodichloromethane	µg/kg		155	102 - 213	Not Reported				160	14.4	
4400	Bromoform	µg/kg		92.1	46.4 - 137	Not Reported				94.9	12.5	
4950	Bromomethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				8.44	0.00	
4410	2-Butanone (MEK)	µg/kg		390	63.8 - 612	Not Reported				338	91.4	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	212	192	81.3 - 280	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.848	192	23.2	
4450	Carbon disulfide	µg/kg		< 12.0	0.00 - 12.0	Not Reported				0.00	0.00	
4455	Carbon tetrachloride	µg/kg		157	76.5 - 232	Not Reported				162	17.2	
4475	Chlorobenzene	µg/kg	104	105	59.0 - 145	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.0892	105	10.1	
4575	Chlorodibromomethane	µg/kg		169	104 - 232	Not Reported				173	17.8	
4485	Chloroethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				162	0.00	
4500	2-Chloroethylvinylether	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
4505	Chloroform	µg/kg		197	120 - 274	Not Reported				195	19.1	
4960	Chloromethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg		185	87.5 - 256	Not Reported				172	28.1	
4585	1,2-Dibromoethane (EDB)	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4595	Dibromomethane	µg/kg		< 12.0	0.00 - 12.0	Not Reported				10.6	0.00	





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SOIL Volatiles in Soil (cat# 623) (Continued)

4610	1,2-Dichlorobenzene	µg/kg	136	135	65.2 - 191	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.182	138	12.9	
4615	1,3-Dichlorobenzene	µg/kg	150	160	62.6 - 236	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.437	159	20.1	
4620	1,4-Dichlorobenzene	µg/kg	68.1	72.9	25.2 - 104	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.596	72.7	7.72	
4625	Dichlorodifluoromethane (Freon 12)	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
4630	1,1-Dichloroethane	µg/kg		187	106 - 269	Not Reported				191	19.3	
4635	1,2-Dichloroethane	µg/kg		70.4	41.2 - 98.7	Not Reported				70.1	5.65	
4640	1,1-Dichloroethylene	µg/kg		145	102 - 204	Not Reported				153	17.1	
4645	cis-1,2-Dichloroethylene	µg/kg		154	104 - 204	Not Reported				154	16.8	
4700	trans-1,2-Dichloroethylene	µg/kg		72.9	49.5 - 101	Not Reported				75.3	8.59	
4655	1,2-Dichloropropane	µg/kg		161	94.1 - 215	Not Reported				162	13.3	
4680	cis-1,3-Dichloropropylene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4685	trans-1,3-Dichloropropylene	µg/kg		< 10.0	0.00 - 10.0	Not Reported				0.00	0.00	
4765	Ethylbenzene	µg/kg	155	162	90.9 - 230	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.326	161	18.2	
4860	2-Hexanone	µg/kg		378	98.2 - 583	Not Reported				341	80.8	
4900	Isopropylbenzene	µg/kg		107	66.9 - 161	Not Reported				114	15.7	
4975	Methylene chloride	µg/kg		186	87.1 - 267	Not Reported				184	25.0	
4995	4-Methyl-2-pentanone (MIBK)	µg/kg		254	112 - 368	Not Reported				244	46.7	
5005	Naphthalene	µg/kg		149	63.3 - 236	Not Reported				150	28.8	
5100	Styrene	µg/kg		116	77.7 - 159	Not Reported				118	13.5	
5105	1,1,1,2-Tetrachloroethane	µg/kg		68.1	44.0 - 94.3	Not Reported				69.9	6.10	
5110	1,1,2,2-Tetrachloroethane	µg/kg		198	104 - 286	Not Reported				189	20.8	



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Volatiles in Soil (cat# 623) (Continued)

5115	Tetrachloroethylene	µg/kg		83.9	37.4 - 121	Not Reported				82.5	11.7	
5140	Toluene	µg/kg	103	108	62.0 - 152	Acceptable	EPA 8021B PID 2 1996	8/19/2011	-0.27	106	10.4	
5155	1,2,4-Trichlorobenzene	µg/kg		128	67.3 - 180	Not Reported				124	18.8	
5160	1,1,1-Trichloroethane	µg/kg		139	79.3 - 198	Not Reported				138	14.7	
5165	1,1,2-Trichloroethane	µg/kg		152	88.7 - 208	Not Reported				152	12.6	
5170	Trichloroethylene	µg/kg		128	65.8 - 182	Not Reported				129	12.8	
5175	Trichlorofluoromethane	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
5180	1,2,3-Trichloropropane (TCP)	µg/kg		73.0	36.7 - 108	Not Reported				72.2	11.8	
5225	Vinyl acetate	µg/kg		< 2.00	0.00 - 2.00	Not Reported				0.00	0.00	
5235	Vinyl chloride	µg/kg		< 20.0	0.00 - 20.0	Not Reported				0.00	0.00	
5260	Xylenes, total	µg/kg	253	259	128 - 380	Acceptable	EPA 8021B PID 2 1996	8/19/2011	0.00734	253	25.8	





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SOIL Nitroaromatics & Nitramines in Soil (cat# 871)

9306	4-Amino-2,6-dinitrotoluene	µg/kg	2640	3100	1530 - 3530	Acceptable	EPA 8330 1994	8/4/2011	0.331	2530	332	
9303	2-Amino-4,6-dinitrotoluene	µg/kg	2420	2750	1300 - 3510	Acceptable	EPA 8330 1994	8/4/2011	0.0442	2400	369	
6160	1,3-Dinitrobenzene	µg/kg	3600	3900	2030 - 5190	Acceptable	EPA 8330 1994	8/4/2011	-0.0226	3610	528	
6185	2,4-Dinitrotoluene	µg/kg	4820	5240	1080 - 8120	Acceptable	EPA 8330 1994	8/4/2011	0.294	4600	761	
6190	2,6-Dinitrotoluene	µg/kg	4190	4380	1620 - 6750	Acceptable	EPA 8330 1994	8/4/2011	0.00909	4180	540	
9522	HMX	µg/kg	< 200	< 300	0.00 - 300	Acceptable	EPA 8330 1994	8/4/2011		0.00	0.00	
5015	Nitrobenzene	µg/kg	5950	6350	1580 - 10500	Acceptable	EPA 8330 1994	8/4/2011	-0.211	6060	548	
9507	2-Nitrotoluene	µg/kg	2910	3100	2100 - 4030	Acceptable	EPA 8330 1994	8/4/2011	-0.479	3060	322	
9510	3-Nitrotoluene	µg/kg	5580	6170	3990 - 7320	Acceptable	EPA 8330 1994	8/4/2011	-0.135	5650	555	
9513	4-Nitrotoluene	µg/kg	2640	2890	2010 - 3270	Acceptable	EPA 8330 1994	8/4/2011	-0.00501	2640	210	
9432	RDX	µg/kg	2260	2580	1320 - 3090	Acceptable	EPA 8330 1994	8/4/2011	0.184	2200	294	
6415	Tetryl	µg/kg	< 200	< 300	0.00 - 300	Acceptable	EPA 8330 1994	8/4/2011		0.00	0.00	
6885	1,3,5-Trinitrobenzene	µg/kg	3000	3620	2140 - 4420	Acceptable	EPA 8330 1994	8/4/2011	-0.739	3280	380	
9651	2,4,6-Trinitrotoluene	µg/kg	1500	2190	725 - 2410	Acceptable	EPA 8330 1994	8/4/2011	0.0168	1500	257	





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SOIL Low-Level PAHs in Soil (cat# 625)

5500	Acenaphthene	µg/kg	208	395	46.2 - 474	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.906	260	57.4	
5505	Acenaphthylene	µg/kg	212	165	30.0 - 233	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	3.04	113	32.5	
5555	Anthracene	µg/kg	344	740	102 - 905	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-1.39	503	115	
5575	Benzo(a)anthracene	µg/kg	326	441	136 - 541	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.193	339	66.2	
5585	Benzo(b)fluoranthene	µg/kg	87	75.1	20.0 - 102	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	2.41	61.0	10.8	
5600	Benzo(k)fluoranthene	µg/kg	167	215	63.6 - 271	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.0142	167	32.9	
5590	Benzo(g,h,i)perylene	µg/kg	120	147	20.0 - 211	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.237	112	35.2	
5580	Benzo(a)pyrene	µg/kg	145	183	31.9 - 231	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.466	131	29.0	
5855	Chrysene	µg/kg	160	168	38.1 - 242	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.638	140	31.3	
5895	Dibenz(a,h)anthracene	µg/kg	108	152	30.8 - 194	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.163	112	26.7	
6265	Fluoranthene	µg/kg	306	320	93.4 - 418	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	1.02	256	49.3	
6270	Fluorene	µg/kg	315	492	97.6 - 603	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.473	350	74.3	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	267	309	52.8 - 422	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.441	237	67.4	
5005	Naphthalene	µg/kg	726	831	83.1 - 1060	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	1.17	540	159	
6615	Phenanthrene	µg/kg	257	369	95.3 - 446	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	-0.25	270	54.2	
6665	Pyrene	µg/kg	180	222	56.5 - 277	Acceptable	EPA 8310 FLUOR 1986	8/5/2011	0.363	167	36.3	





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SOIL Low-Level PAHs in Soil (cat# 625)

5500	Acenaphthene	µg/kg	278	395	46.2 - 474	Acceptable	EPA 8270C SIM	8/1/2011	0.314	260	57.4	
5505	Acenaphthylene	µg/kg	106	165	30.0 - 233	Acceptable	EPA 8270C SIM	8/1/2011	-0.22	113	32.5	
5555	Anthracene	µg/kg	519	740	102 - 905	Acceptable	EPA 8270C SIM	8/1/2011	0.137	503	115	
5575	Benzo(a)anthracene	µg/kg	326	441	136 - 541	Acceptable	EPA 8270C SIM	8/1/2011	-0.193	339	66.2	
5585	Benzo(b)fluoranthene	µg/kg	51	75.1	20.0 - 102	Acceptable	EPA 8270C SIM	8/1/2011	-0.929	61.0	10.8	
5600	Benzo(k)fluoranthene	µg/kg	190	215	63.6 - 271	Acceptable	EPA 8270C SIM	8/1/2011	0.684	167	32.9	
5590	Benzo(g,h,i)perylene	µg/kg	114	147	20.0 - 211	Acceptable	EPA 8270C SIM	8/1/2011	0.0667	112	35.2	
5580	Benzo(a)pyrene	µg/kg	137	183	31.9 - 231	Acceptable	EPA 8270C SIM	8/1/2011	0.190	131	29.0	
5855	Chrysene	µg/kg	133	168	38.1 - 242	Acceptable	EPA 8270C SIM	8/1/2011	-0.224	140	31.3	
5895	Dibenz(a,h)anthracene	µg/kg	121	152	30.8 - 194	Acceptable	EPA 8270C SIM	8/1/2011	0.323	112	26.7	
6265	Fluoranthene	µg/kg	220	320	93.4 - 418	Acceptable	EPA 8270C SIM	8/1/2011	-0.721	256	49.3	
6270	Fluorene	µg/kg	365	492	97.6 - 603	Acceptable	EPA 8270C SIM	8/1/2011	0.200	350	74.3	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	233	309	52.8 - 422	Acceptable	EPA 8270C SIM	8/1/2011	-0.0635	237	67.4	
5005	Naphthalene	µg/kg	617	831	83.1 - 1060	Acceptable	EPA 8270C SIM	8/1/2011	0.483	540	159	
6615	Phenanthrene	µg/kg	265	369	95.3 - 446	Acceptable	EPA 8270C SIM	8/1/2011	-0.103	270	54.2	
6665	Pyrene	µg/kg	157	222	56.5 - 277	Acceptable	EPA 8270C SIM	8/1/2011	-0.271	167	36.3	





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SOIL Base/Neutrals and Acids in Soil (cat# 467)

5500	Acenaphthene	µg/kg	2090	2520	505 - 3090	Acceptable	EPA 8270C 3 1996	8/1/2011	0.882	1800	333	
5505	Acenaphthylene	µg/kg	1950	2310	478 - 3080	Acceptable	EPA 8270C 3 1996	8/1/2011	0.477	1780	356	
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		< 100	0.00 - 100	Not Reported				0.00	0.00	
5545	Aniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		760	0.00	
5555	Anthracene	µg/kg	4040	5980	1290 - 6720	Acceptable	EPA 8270C 3 1996	8/1/2011	0.0448	4010	724	
5595	Benzidine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5610	Benzoic acid	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5575	Benzo(a)anthracene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		3760	1080	
5585	Benzo(b)fluoranthene	µg/kg	960	1350	281 - 2030	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.871	1160	226	
5600	Benzo(k)fluoranthene	µg/kg	2680	2740	788 - 3840	Acceptable	EPA 8270C 3 1996	8/1/2011	0.882	2310	417	
5590	Benzo(g,h,i)perylene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		1870	2020	
5580	Benzo(a)pyrene	µg/kg	4950	6200	1360 - 7520	Acceptable	EPA 8270C 3 1996	8/1/2011	0.647	4440	793	
5630	Benzyl alcohol	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		4630	0.00	
5760	bis(2-Chloroethoxy)methane	µg/kg	2930	3180	551 - 4110	Acceptable	EPA 8270C 3 1996	8/1/2011	1.30	2330	460	
5765	bis(2-Chloroethyl)ether	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		2260	310	
5780	bis(2-Chloroisopropyl)ether	µg/kg	5940	8540	1110 - 9960	Acceptable	EPA 8270C 3 1996	8/1/2011	0.310	5540	1300	
5660	4-Bromophenyl-phenylether	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5670	Butylbenzylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5680	Carbazole	µg/kg		< 280	0.00 - 280	Not Reported				42.3	4.24	
5745	4-Chloroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5700	4-Chloro-3-methylphenol	µg/kg	10200	12700	3460 - 14000	Acceptable	EPA 8270C 3 1996	8/1/2011	0.891	8490	1910	



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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

5790	1-Chloronaphthalene	µg/kg		< 110	0.00 - 110	Not Reported				0.00	0.00	
5795	2-Chloronaphthalene	µg/kg	< 1000	< 200	0.00 - 200	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5800	2-Chlorophenol	µg/kg	8480	10000	1620 - 11000	Acceptable	EPA 8270C 3 1996	8/1/2011	1.57	6200	1450	
5825	4-Chlorophenyl-phenylether	µg/kg	3650	4660	1220 - 5690	Acceptable	EPA 8270C 3 1996	8/1/2011	0.291	3460	666	
5855	Chrysene	µg/kg	3350	4100	1090 - 4920	Acceptable	EPA 8270C 3 1996	8/1/2011	0.616	3000	560	
5895	Dibenz(a,h)anthracene	µg/kg	1080	1580	200 - 2240	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.342	1170	270	
5905	Dibenzofuran	µg/kg	7750	11000	2820 - 13000	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.103	7910	1580	
5925	Di-n-butylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		217	0.00	
4610	1,2-Dichlorobenzene	µg/kg	6840	8780	878 - 9660	Acceptable	EPA 8270C 3 1996	8/1/2011	1.09	5080	1620	
4615	1,3-Dichlorobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		3980	0.00	
4620	1,4-Dichlorobenzene	µg/kg	7680	10700	1070 - 11800	Acceptable	EPA 8270C 3 1996	8/1/2011	0.992	5690	2000	
5945	3,3'-Dichlorobenzidine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6000	2,4-Dichlorophenol	µg/kg	9100	11100	1910 - 12200	Acceptable	EPA 8270C 3 1996	8/1/2011	1.19	7060	1710	
6005	2,6-Dichlorophenol	µg/kg		4390	866 - 4830	Not Reported				2650	594	
6070	Diethylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6130	2,4-Dimethylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		501	0.00	
6135	Dimethylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6175	2,4-Dinitrophenol	µg/kg	3890	9650	0.00 - 10600	Acceptable	EPA 8270C 3 1996	8/1/2011	1.36	1730	1590	
6185	2,4-Dinitrotoluene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6190	2,6-Dinitrotoluene	µg/kg	5800	6420	1940 - 7780	Acceptable	EPA 8270C 3 1996	8/1/2011	1.00	4860	939	
6200	Di-n-octylphthalate	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6065	bis(2-Ethylhexyl)phthalate	µg/kg	5930	6740	1670 - 9080	Acceptable	EPA 8270C 3 1996	8/1/2011	0.544	5380	1020	
6265	Fluoranthene	µg/kg	1620	2030	622 - 2680	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.118	1650	252	
6270	Fluorene	µg/kg	5040	6750	2150 - 8210	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.156	5180	904	
6275	Hexachlorobenzene	µg/kg	8600	12600	4010 - 15800	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.692	9920	1900	
4835	Hexachlorobutadiene	µg/kg	4890	6160	848 - 6940	Acceptable	EPA 8270C 3 1996	8/1/2011	0.978	3890	1020	
6285	Hexachlorocyclopentadiene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
4840	Hexachloroethane	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		48.5	20.9	
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1450	2010	201 - 3040	Acceptable	EPA 8270C 3 1996	8/1/2011	-0.356	1580	362	
6320	Isophorone	µg/kg	7120	9360	2180 - 11700	Acceptable	EPA 8270C 3 1996	8/1/2011	0.104	6960	1590	
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6385	2-Methylnaphthalene	µg/kg	3500	4170	888 - 4850	Acceptable	EPA 8270C 3 1996	8/1/2011	0.957	2870	660	
6400	2-Methylphenol	µg/kg	3780	6800	680 - 7480	Acceptable	EPA 8270C 3 1996	8/1/2011	2.20	2490	584	
6410	3&4-Methylphenol	µg/kg	< 1000	< 600	0.00 - 600	Acceptable	EPA 8270C 3 1996	8/1/2011		2540	1100	
5005	Naphthalene	µg/kg	7530	10800	2170 - 11900	Acceptable	EPA 8270C 3 1996	8/1/2011	0.335	6930	1780	
6460	2-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6465	3-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6470	4-Nitroaniline	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
5015	Nitrobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6490	2-Nitrophenol	µg/kg	10900	12200	1470 - 14000	Acceptable	EPA 8270C 3 1996	8/1/2011	1.59	7720	2000	
6500	4-Nitrophenol	µg/kg	10800	12900	1290 - 17600	Acceptable	EPA 8270C 3 1996	8/1/2011	1.05	8190	2490	
6525	N-Nitrosodiethylamine	µg/kg		< 100	0.00 - 100	Not Reported				0.00	0.00	





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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6530	N-Nitrosodimethylamine	µg/kg	5180	6370	565 - 7010	Acceptable	EPA 8270C 3 1996	8/1/2011	1.30	3780	1070	
6535	N-Nitrosodiphenylamine	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6545	N-Nitroso-di-n-propylamine	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6590	Pentachlorobenzene	µg/kg		< 280	0.00 - 280	Not Reported				0.00	0.00	
6605	Pentachlorophenol	µg/kg	11240	13100	1310 - 14400	Acceptable	EPA 8270C 3 1996	8/1/2011	2.04	5900	2620	
6615	Phenanthrene	µg/kg	2770	3350	978 - 4340	Acceptable	EPA 8270C 3 1996	8/1/2011	0.257	2660	422	
6625	Phenol	µg/kg	6850	8080	808 - 9610	Acceptable	EPA 8270C 3 1996	8/1/2011	1.44	5180	1160	
6665	Pyrene	µg/kg	2110	2340	680 - 3020	Acceptable	EPA 8270C 3 1996	8/1/2011	0.744	1850	350	
5095	Pyridine	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		< 240	0.00 - 240	Not Reported				0.00	0.00	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		< 130	0.00 - 130	Not Reported				0.00	0.00	
5155	1,2,4-Trichlorobenzene	µg/kg	< 1000	< 300	0.00 - 300	Acceptable	EPA 8270C 3 1996	8/1/2011		0.00	0.00	
6835	2,4,5-Trichlorophenol	µg/kg	4780	5190	746 - 6350	Acceptable	EPA 8270C 3 1996	8/1/2011	1.57	3550	787	
6840	2,4,6-Trichlorophenol	µg/kg	6630	8140	1460 - 8950	Acceptable	EPA 8270C 3 1996	8/1/2011	1.47	5090	1050	





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SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	260	295	72.4 - 324	Acceptable	EPA 8081A 1 1996	8/1/2011	1.24	198	49.8	
7110	alpha-BHC	µg/kg	280	312	72.9 - 343	Acceptable	EPA 8081A 1 1996	8/1/2011	1.21	207	60.4	
7115	beta-BHC	µg/kg	210	178	26.4 - 239	Acceptable	EPA 8081A 1 1996	8/1/2011	1.84	133	41.9	
7105	delta-BHC	µg/kg	160	180	30.7 - 218	Acceptable	EPA 8081A 1 1996	8/1/2011	0.979	125	36.1	
7120	gamma-BHC(Lindane)	µg/kg	350	381	89.4 - 430	Acceptable	EPA 8081A 1 1996	8/1/2011	1.24	260	72.4	
7240	alpha-Chlordane	µg/kg	74.8	75.7	18.7 - 87.5	Acceptable	EPA 8081A 1 1996	8/1/2011	1.58	53.1	13.7	
7245	gamma-Chlordane	µg/kg	375	394	140 - 433	Acceptable	EPA 8081A 1 1996	8/1/2011	1.15	286	77.3	
7355	4,4'-DDD	µg/kg	390	417	129 - 497	Acceptable	EPA 8081A 1 1996	8/1/2011	0.923	313	83.6	
7360	4,4'-DDE	µg/kg	310	370	109 - 429	Acceptable	EPA 8081A 1 1996	8/1/2011	0.540	269	75.8	
7365	4,4'-DDT	µg/kg	150	136	25.8 - 181	Acceptable	EPA 8081A 1 1996	8/1/2011	1.34	103	34.7	
7470	Dieldrin	µg/kg	240	235	68.2 - 283	Acceptable	EPA 8081A 1 1996	8/1/2011	1.52	176	42.5	
7540	Endrin	µg/kg	200	181	60.1 - 226	Acceptable	EPA 8081A 1 1996	8/1/2011	1.58	143	35.8	
7530	Endrin aldehyde	µg/kg	290	439	43.9 - 483	Acceptable	EPA 8081A 1 1996	8/1/2011	1.13	206	74.5	
7535	Endrin ketone	µg/kg	250	293	54.9 - 322	Acceptable	EPA 8081A 1 1996	8/1/2011	1.32	184	50.2	
7510	Endosulfan I	µg/kg	220	406	51.7 - 447	Acceptable	EPA 8081A 1 1996	8/1/2011	1.69	148	42.6	
7515	Endosulfan II	µg/kg	240	405	53.7 - 446	Acceptable	EPA 8081A 1 1996	8/1/2011	1.52	162	51.6	
7520	Endosulfan sulfate	µg/kg	240	222	37.4 - 271	Acceptable	EPA 8081A 1 1996	8/1/2011	1.86	154	46.2	
7685	Heptachlor	µg/kg	450	469	118 - 527	Acceptable	EPA 8081A 1 1996	8/1/2011	1.36	322	93.5	
7690	Heptachlor epoxide	µg/kg	210	220	65.5 - 256	Acceptable	EPA 8081A 1 1996	8/1/2011	1.18	161	41.5	
7810	Methoxychlor	µg/kg	260	269	26.9 - 393	Acceptable	EPA 8081A 1 1996	8/1/2011	0.812	207	64.9	

SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	810	915	176 - 1150	Acceptable	EPA 8081A 1 1996	8/2/2011	0.937	661	159	
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	430	491	49.1 - 726	Acceptable	EPA 8081A 1 1996	8/2/2011	0.396	385	114	
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All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01





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SOIL Organophosphorus Pesticides in Soil (cat# 878)

7075	Azinphos-methyl (Guthion)	µg/kg	235	302	0.00 - 486	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.281	209	92.3	
7300	Chlorpyrifos	µg/kg	367	719	0.00 - 791	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.523	302	124	
7395	Demeton-O	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
7385	Demeton-S	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
7410	Diazinon	µg/kg	454	738	91.1 - 818	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	-0.00493	454	121	
8610	Dichlorvos (DDVP)	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8141A NPD 1 1994	7/29/2011		0.00	0.00	
8625	Disulfoton	µg/kg	221	366	0.00 - 403	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.582	184	64.1	
7955	Ethyl Parathion	µg/kg	210	196	0.174 - 301	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	1.19	150	50.1	
7770	Malathion	µg/kg	456	577	0.00 - 755	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.916	324	143	
7825	Methyl Parathion	µg/kg	636	947	55.6 - 1040	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.867	506	150	
7985	Phorate	µg/kg	452	620	10.1 - 800	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.354	405	132	
8110	Ronnel	µg/kg	430	804	0.00 - 884	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.229	394	158	
8200	Stirophos (tetrachlorovinphos)	µg/kg	150	756	0.00 - 832	Acceptable	EPA 8141A NPD 1 1994	7/29/2011	0.332	124	77.0	
8185	Terbufos	µg/kg		220	0.00 - 447	Not Reported				194	84.4	





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SOIL Chlorinated Acid Herbicides in Soil (cat# 626)

8505	Acifluorfen	µg/kg		648	0.00 - 713	Not Reported				231	96.2	
8530	Bentazon	µg/kg		367	56.0 - 408	Not Reported				232	58.6	
8540	Chloramben	µg/kg		241	0.00 - 265	Not Reported				96.7	33.8	
8545	2,4-D	µg/kg	358	464	46.4 - 803	Acceptable	EPA 8151A 1998	8/1/2011	0.402	289	171	
8560	2,4-DB	µg/kg	263	390	0.00 - 540	Acceptable	EPA 8151A 1998	8/1/2011	0.148	248	97.3	
8550	Dacthal diacid (DCPA)	µg/kg		661	0.00 - 1090	Not Reported				299	264	
8555	Dalapon	µg/kg	< 100	< 10.0	0.00 - 10.0	Acceptable	EPA 8151A 1998	8/1/2011		225	0.00	
8595	Dicamba	µg/kg	485	618	61.8 - 1020	Acceptable	EPA 8151A 1998	8/1/2011	0.584	355	223	
8600	3,5-Dichlorobenzoic acid	µg/kg		360	0.00 - 485	Not Reported				219	88.7	
8605	Dichlorprop	µg/kg	157	187	0.00 - 273	Acceptable	EPA 8151A 1998	8/1/2011	0.894	108	55.3	
8620	Dinoseb	µg/kg	27	321	0.00 - 492	Acceptable	EPA 8151A 1998	8/1/2011	-1.15	155	112	
7775	MCPA	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	8/1/2011		0.00	0.00	
7780	MCPP	µg/kg	< 1000	< 100	0.00 - 100	Acceptable	EPA 8151A 1998	8/1/2011		2230	0.00	
6500	4-Nitrophenol	µg/kg		424	0.00 - 857	Not Reported				319	179	
6605	Pentachlorophenol	µg/kg		334	0.00 - 476	Not Reported				216	86.4	
8645	Picloram	µg/kg		239	0.00 - 327	Not Reported				115	70.6	
8655	2,4,5-T	µg/kg	385	557	55.7 - 936	Acceptable	EPA 8151A 1998	8/1/2011	0.237	338	200	
8650	2,4,5-TP (Silvex)	µg/kg	161	209	20.9 - 338	Acceptable	EPA 8151A 1998	8/1/2011	0.402	134	68.0	

SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		6880	0.00	
8885	Aroclor 1221	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		0.00	0.00	
8890	Aroclor 1232	mg/kg	16.2	19.4	4.78 - 26.5	Acceptable	EPA 8082 1996	8/1/2011	0.116	15.6	4.70	
8895	Aroclor 1242	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		7.59	1.79	
8900	Aroclor 1248	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		9.18	0.00	
8905	Aroclor 1254	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		0.00	0.00	
8910	Aroclor 1260	mg/kg	< 1.00	< 0.200	0.00 - 0.200	Acceptable	EPA 8082 1996	8/1/2011		221	0.00	





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SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	94.6	102	60.8 - 140	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.489	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	75.8	71.2	29.7 - 110	Acceptable	EPA 8260B 2 1996	8/5/2011	0.402	72.4	8.56	
4765	Ethylbenzene	µg/kg	143	158	88.6 - 225	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.854	155	14.3	
5140	Toluene	µg/kg	147	159	91.7 - 223	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.586	159	20.0	
5260	Xylenes, total	µg/kg	235	262	130 - 384	Acceptable	EPA 8260B 2 1996	8/5/2011	-0.772	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	94.6	102	60.8 - 140	Acceptable	AK101-EPA 8260B	8/5/2011	-0.489	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	75.8	71.2	29.7 - 110	Acceptable	AK101-EPA 8260B	8/5/2011	0.402	72.4	8.56	
4765	Ethylbenzene	µg/kg	143	158	88.6 - 225	Acceptable	AK101-EPA 8260B	8/5/2011	-0.854	155	14.3	
5140	Toluene	µg/kg	147	159	91.7 - 223	Acceptable	AK101-EPA 8260B	8/5/2011	-0.586	159	20.0	
5260	Xylenes, total	µg/kg	235	262	130 - 384	Acceptable	AK101-EPA 8260B	8/5/2011	-0.772	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	90.0	102	60.8 - 140	Acceptable	EPA 8021B 2 1996	8/10/2011	-0.92	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	80.6	71.2	29.7 - 110	Acceptable	EPA 8021B 2 1996	8/10/2011	0.963	72.4	8.56	
4765	Ethylbenzene	µg/kg	133	158	88.6 - 225	Acceptable	EPA 8021B 2 1996	8/10/2011	-1.56	155	14.3	
5140	Toluene	µg/kg	139	159	91.7 - 223	Acceptable	EPA 8021B 2 1996	8/10/2011	-0.985	159	20.0	
5260	Xylenes, total	µg/kg	219	262	130 - 384	Acceptable	EPA 8021B 2 1996	8/10/2011	-1.51	252	21.7	

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	90.0	102	60.8 - 140	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-0.92	99.8	10.7	
5000	tert-Butyl methyl ether (MTBE)	µg/kg	80.6	71.2	29.7 - 110	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	0.963	72.4	8.56	
4765	Ethylbenzene	µg/kg	133	158	88.6 - 225	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-1.56	155	14.3	
5140	Toluene	µg/kg	139	159	91.7 - 223	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-0.985	159	20.0	
5260	Xylenes, total	µg/kg	219	262	130 - 384	Acceptable	AK 101-EPA 8021 2 1996	8/10/2011	-1.51	252	21.7	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	EPA 8015B 2 1996	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg		793	79.3 - 1190	Not Reported				617	172	
4375	Benzene in GRO	mg/kg	6.23	8.47	0.00 - 10.2	Acceptable	EPA 8021B 2 1996	8/10/2011	1.16	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	20.4	25.4	4.17 - 34.4	Acceptable	EPA 8021B 2 1996	8/10/2011	0.224	19.3	5.04	
5140	Toluene in GRO	mg/kg	41.5	73.8	0.00 - 81.2	Acceptable	EPA 8021B 2 1996	8/10/2011	0.460	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	65.9	74.8	0.00 - 115	Acceptable	EPA 8021B 2 1996	8/10/2011	0.482	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	CA LUFT GC 1989	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg	6.23	8.47	0.00 - 10.2	Acceptable	CA LUFT GC 1989	8/10/2011	1.16	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	20.4	25.4	4.17 - 34.4	Acceptable	CA LUFT GC 1989	8/10/2011	0.224	19.3	5.04	
5140	Toluene in GRO	mg/kg	41.5	73.8	0.00 - 81.2	Acceptable	CA LUFT GC 1989	8/10/2011	0.460	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	65.9	74.8	0.00 - 115	Acceptable	CA LUFT GC 1989	8/10/2011	0.482	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	NWTPH-Gx 1997	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	EPA 8015B (M) 2 1996	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	675	793	79.3 - 1190	Acceptable	AK 101 GC	8/10/2011	0.334	617	172	
4375	Benzene in GRO	mg/kg		8.47	0.00 - 10.2	Not Reported				3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg		25.4	4.17 - 34.4	Not Reported				19.3	5.04	
5140	Toluene in GRO	mg/kg		73.8	0.00 - 81.2	Not Reported				34.5	15.3	
5260	Xylenes, total in GRO	mg/kg		74.8	0.00 - 115	Not Reported				56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	EPA 8260B 2 1996	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	EPA 8260B 2 1996	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	EPA 8260B 2 1996	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	EPA 8260B 2 1996	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	EPA 8260B 2 1996	8/10/2011	0.600	56.5	19.5	

SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	AK101-EPA 8260	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	AK101-EPA 8260	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	AK101-EPA 8260	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	AK101-EPA 8260	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	AK101-EPA 8260	8/10/2011	0.600	56.5	19.5	





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SOIL Gasoline Range Organics (GRO) in Soil (cat# 630)

9408	Gasoline Range Organics (GRO)	mg/kg	861	793	79.3 - 1190	Acceptable	CA LUFT GCMS 1989	8/10/2011	1.41	617	172	
4375	Benzene in GRO	mg/kg	3.70	8.47	0.00 - 10.2	Acceptable	CA LUFT GCMS 1989	8/10/2011	-0.0333	3.77	2.13	
4765	Ethylbenzene in GRO	mg/kg	21.1	25.4	4.17 - 34.4	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.363	19.3	5.04	
5140	Toluene in GRO	mg/kg	42.3	73.8	0.00 - 81.2	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.512	34.5	15.3	
5260	Xylenes, total in GRO	mg/kg	68.2	74.8	0.00 - 115	Acceptable	CA LUFT GCMS 1989	8/10/2011	0.600	56.5	19.5	

SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	EPA 8015B 2 1996	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	NWTPH-Dx 1997	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	CA LUFT GC 1989	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	EPA 8015B (M) 2 1996	8/1/2011	1.06	1430	346	
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SOIL Diesel Range Organics (DRO) in Soil (cat# 631)

9369	Diesel Range Organics (DRO)	mg/kg	1800	1740	579 - 2290	Acceptable	AK101 DRO GC	8/1/2011	1.06	1430	346	
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SOIL Total Petroleum Hydrocarbons (TPH) in Soil (cat# 632)

1935	non-Polar Extractable Material(TPH)(Grav)	mg/kg		939	157 - 1430	Not Reported				794	195	
1935	non-Polar Extractable Material(TPH)(IR)	mg/kg	1320	1150	507 - 2400	Acceptable	EPA 418.1 1978	8/2/2011	-0.417	1460	326	

