



**ENVIRONMENTAL
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The Industry Standard™

Carol Wortham
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Berkeley, CA 94710

SOIL-65



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 01/26/09

Close Date: 03/12/09

Report Issued Date: 04/02/09



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April 2, 2009

Carol Wortham
Curtis & Tompkins LTD
2323 Fifth Street
Berkeley, CA 94710

Enclosed is your final report for ERA's SOIL-65 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-65 Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC 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).

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-65 Proficiency Testing study. If you have any questions, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Sincerely,

Handwritten signature of Shawn Kassner in black ink.

Shawn Kassner
Proficiency Testing Manager

Handwritten signature of Jay R. McBurney in black ink.

Jay R. McBurney
Quality Program Manager

attachments
smk



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Report Recipient	Contact/Phone Number	Reporting Type
Alaska	Lance Morris / 907-375-8210	All Analytes
Arizona	Terry Norcop / 602-364-0720	All Analytes
California	Fred Choske / 510-620-3175	All Analytes
Nevada	Sara Rairick / 775-687-9490	All Analytes
Utah	Kristin Brown / 801-538-9371	All Analytes
Washington	Connie Schreiber / 360-895-6145	All Analytes



SOIL-65 Definitions & Study Discussion

Study Dates: 01/26/09 - 03/12/09

Report Issued: 04/02/09

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. All NELAC parameters not added to a standard are given an assigned Value of "0", per the guidance issued by the NELAC Board of Directors, on December 14, 2000. Non-NELAC parameters not added to a standard may be given an assigned value of less than a minimum verified concentration as determined in the background soil for applicable EPA methodologies.

The Acceptance Limits are established per the NELAC PT program criteria 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-65 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC), Proficiency Testing Program Standards, Chapter 2, July 2003.

Per the requirements of the NELAC Proficiency Testing Program, a full review of all homogeneity, stability, and accuracy verification data was completed. All analytical verification data for all analytes in the study standards met the acceptance criteria contained in the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is included in the NELAC Fields of Testing list the acceptance limits were calculated based on the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is not included in the NELAC Fields of Testing list, the acceptance limits were calculated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260, Rev. 2.0).

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

ERA's SOIL-65 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 Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.





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Study: **SOIL-65**

ERA Customer Number: **C879201**

Laboratory Name: **Curtis & Tompkins LTD**

Inorganic Results





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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 04/02/09
Study Dates: 01/26/09 - 03/12/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	8160	12100	4830 - 16200	Acceptable	EPA 6010B
1005	Antimony	mg/kg	69.6	243	24.3 - 269	Acceptable	EPA 6010B
1010	Arsenic	mg/kg	88.2	101	60.9 - 116	Acceptable	EPA 6010B
1015	Barium	mg/kg	431	454	321 - 542	Acceptable	EPA 6010B
1020	Beryllium	mg/kg	62.9	63.7	42.6 - 73.8	Acceptable	EPA 6010B
1025	Boron	mg/kg	86.7	117	58.7 - 144	Acceptable	EPA 6010B
1030	Cadmium	mg/kg	93.0	103	66.7 - 115	Acceptable	EPA 6010B
1035	Calcium	mg/kg	9740	9880	7260 - 12000	Acceptable	EPA 6010B
1040	Chromium	mg/kg	145	158	101 - 187	Acceptable	EPA 6010B
1050	Cobalt	mg/kg	197	211	142 - 239	Acceptable	EPA 6010B
1055	Copper	mg/kg	233	251	180 - 294	Acceptable	EPA 6010B
1070	Iron	mg/kg	17700	18700	8200 - 29800	Acceptable	EPA 6010B
1075	Lead	mg/kg	111	114	74.3 - 134	Acceptable	EPA 6010B
1085	Magnesium	mg/kg	3560	4220	2810 - 5270	Acceptable	EPA 6010B
1090	Manganese	mg/kg	496	497	383 - 611	Acceptable	EPA 6010B
1095	Mercury	mg/kg	6.98	6.80	3.48 - 10.1	Acceptable	EPA 7471A
1100	Molybdenum	mg/kg	51.5	69.6	40.4 - 79.2	Acceptable	EPA 6010B
1105	Nickel	mg/kg	197	221	147 - 252	Acceptable	EPA 6010B
1125	Potassium	mg/kg	3830	4730	2840 - 5840	Acceptable	EPA 6010B
1140	Selenium	mg/kg	196	211	131 - 252	Acceptable	EPA 6010B
1150	Silver	mg/kg	78.6	82.9	51.3 - 101	Acceptable	EPA 6010B
1155	Sodium	mg/kg	669	738	417 - 1050	Acceptable	EPA 6010B
1160	Strontium	mg/kg		138	93.8 - 172	Not Reported	
1165	Thallium	mg/kg	253	274	171 - 322	Acceptable	EPA 6010B
1175	Tin	mg/kg	144	151	82.3 - 195	Acceptable	EPA 6010B
1180	Titanium	mg/kg	260	447	0.00 - 897	Acceptable	EPA 6010B
1185	Vanadium	mg/kg	170	201	131 - 229	Acceptable	EPA 6010B
1190	Zinc	mg/kg	303	304	209 - 375	Acceptable	EPA 6010B





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SOIL Metals in Soil (cat# 620)

1000	Aluminum	mg/kg	8160	12100	4830 - 16200	Acceptable	EPA 6020
1005	Antimony	mg/kg	67.5	243	24.3 - 269	Acceptable	EPA 6020
1010	Arsenic	mg/kg	89.3	101	60.9 - 116	Acceptable	EPA 6020
1015	Barium	mg/kg	429	454	321 - 542	Acceptable	EPA 6020
1020	Beryllium	mg/kg	63.1	63.7	42.6 - 73.8	Acceptable	EPA 6020
1025	Boron	mg/kg		117	58.7 - 144	Not Reported	
1030	Cadmium	mg/kg	92.8	103	66.7 - 115	Acceptable	EPA 6020
1035	Calcium	mg/kg	9710	9880	7260 - 12000	Acceptable	EPA 6020
1040	Chromium	mg/kg	147	158	101 - 187	Acceptable	EPA 6020
1050	Cobalt	mg/kg	196	211	142 - 239	Acceptable	EPA 6020
1055	Copper	mg/kg	239	251	180 - 294	Acceptable	EPA 6020
1070	Iron	mg/kg	18300	18700	8200 - 29800	Acceptable	EPA 6020
1075	Lead	mg/kg	107	114	74.3 - 134	Acceptable	EPA 6020
1085	Magnesium	mg/kg	3700	4220	2810 - 5270	Acceptable	EPA 6020
1090	Manganese	mg/kg	498	497	383 - 611	Acceptable	EPA 6020
1095	Mercury	mg/kg		6.80	3.48 - 10.1	Not Reported	
1100	Molybdenum	mg/kg	52.4	69.6	40.4 - 79.2	Acceptable	EPA 6020
1105	Nickel	mg/kg	205	221	147 - 252	Acceptable	EPA 6020
1125	Potassium	mg/kg	3920	4730	2840 - 5840	Acceptable	EPA 6020
1140	Selenium	mg/kg	202	211	131 - 252	Acceptable	EPA 6020
1150	Silver	mg/kg	82.1	82.9	51.3 - 101	Acceptable	EPA 6020
1155	Sodium	mg/kg	716	738	417 - 1050	Acceptable	EPA 6020
1160	Strontium	mg/kg		138	93.8 - 172	Not Reported	
1165	Thallium	mg/kg	243	274	171 - 322	Acceptable	EPA 6020
1175	Tin	mg/kg		151	82.3 - 195	Not Reported	
1180	Titanium	mg/kg		447	0.00 - 897	Not Reported	
1185	Vanadium	mg/kg	168	201	131 - 229	Acceptable	EPA 6020
1190	Zinc	mg/kg	300	304	209 - 375	Acceptable	EPA 6020

SOIL Hexavalent Chromium in Soil (cat# 876)

1045	Chromium VI	mg/kg	124	201	52.0 - 238	Acceptable	EPA 7196A
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SOIL Anions in Soil (cat# 873)

1540	Bromide	mg/kg		88.1	63.1 - 96.9	Not Reported	
1575	Chloride	mg/kg	467	475	350 - 570	Acceptable	EPA 300.0
1730	Fluoride	mg/kg	25.6	135	20.0 - 149	Acceptable	EPA 300.0
1810	Nitrate as N	mg/kg	157	221	127 - 243	Acceptable	EPA 300.0
1870	Phosphate as P	mg/kg		306	30.6 - 337	Not Reported	
2000	Sulfate	mg/kg	558	610	303 - 811	Acceptable	EPA 300.0





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SOIL Cyanide in Soil (cat# 621)

1635	Cyanide, total	mg/kg	50.2	63.0	16.1 - 93.1	Acceptable	EPA 9014
1640	Reactive Cyanide	mg/kg	< 10.0	< 25.0		Acceptable	SW-846 CH.7

SOIL Corrosivity/pH in Soil (cat# 875)

1625	Corrosivity (pH)	S.U.	9.69	10.2	9.60 - 10.8	Acceptable	EPA 9045C
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SOIL Ignitability/Flashpoint (cat# 874)

1780	Ignitability/Flashpoint	°F	139	142	125 - 159	Acceptable	EPA 1010
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Laboratory Name: **Curtis & Tompkins LTD**

Organic Results





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Volatiles in Soil (cat# 623)							
4315	Acetone	µg/kg	287	307	40.0 - 633	Acceptable	EPA 8260B
4320	Acetonitrile	µg/kg		778	0.00 - 1490	Not Reported	
4325	Acrolein	µg/kg		0.00		Not Reported	
4375	Benzene	µg/kg	97.1	95.6	56.9 - 131	Acceptable	EPA 8260B
4385	Bromobenzene	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4395	Bromodichloromethane	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4400	Bromoform	µg/kg	90.1	87.3	43.9 - 130	Acceptable	EPA 8260B
4950	Bromomethane	µg/kg	< 10.0	0.00		Acceptable	EPA 8260B
4410	2-Butanone (MEK)	µg/kg	317	342	118 - 532	Acceptable	EPA 8260B
5000	tert-Butyl methyl ether (MTBE)	µg/kg	127	127	53.5 - 188	Acceptable	EPA 8260B
4450	Carbon disulfide	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4455	Carbon tetrachloride	µg/kg	118	131	63.9 - 193	Acceptable	EPA 8260B
4475	Chlorobenzene	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4575	Chlorodibromomethane	µg/kg	67.6	68.2	40.3 - 95.0	Acceptable	EPA 8260B
4485	Chloroethane	µg/kg	< 10.0	0.00		Acceptable	EPA 8260B
4500	2-Chloroethylvinylether	µg/kg		0.00		Not Reported	
4505	Chloroform	µg/kg	121	125	75.7 - 174	Acceptable	EPA 8260B
4960	Chloromethane	µg/kg	< 10.0	0.00		Acceptable	EPA 8260B
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4585	1,2-Dibromoethane (EDB)	µg/kg	77.6	76.3	45.8 - 114	Acceptable	EPA 8260B
4595	Dibromomethane	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4610	1,2-Dichlorobenzene	µg/kg	61.9	62.8	29.8 - 89.2	Acceptable	EPA 8260B
4615	1,3-Dichlorobenzene	µg/kg	37.8	39.4	13.1 - 58.3	Acceptable	EPA 8260B
4620	1,4-Dichlorobenzene	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4625	Dichlorodifluoromethane (Freon 12)	µg/kg	< 10.0	0.00		Acceptable	EPA 8260B
4630	1,1-Dichloroethane	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4635	1,2-Dichloroethane	µg/kg	34.9	38.7	23.1 - 55.3	Acceptable	EPA 8260B
4640	1,1-Dichloroethylene	µg/kg	190	168	88.1 - 280	Acceptable	EPA 8260B
4645	cis-1,2-Dichloroethylene	µg/kg	51.6	45.9	30.2 - 69.2	Acceptable	EPA 8260B
4700	trans-1,2-Dichloroethylene	µg/kg	95.9	88.7	47.7 - 142	Acceptable	EPA 8260B
4655	1,2-Dichloropropane	µg/kg	90.1	88.3	51.9 - 119	Acceptable	EPA 8260B
4680	cis-1,3-Dichloropropylene	µg/kg	109	104	60.8 - 151	Acceptable	EPA 8260B





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

4685	trans-1,3-Dichloropropylene	µg/kg	68.6	68.0	37.5 - 104	Acceptable	EPA 8260B
4765	Ethylbenzene	µg/kg	92.5	104	57.6 - 149	Acceptable	EPA 8260B
4860	2-Hexanone	µg/kg	399	378	161 - 565	Acceptable	EPA 8260B
4900	Isopropylbenzene	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
4975	Methylene chloride	µg/kg	169	163	76.3 - 235	Acceptable	EPA 8260B
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	178	172	74.4 - 252	Acceptable	EPA 8260B
5005	Naphthalene	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
5100	Styrene	µg/kg	59.3	55.8	33.2 - 86.1	Acceptable	EPA 8260B
5105	1,1,1,2-Tetrachloroethane	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
5110	1,1,2,2-Tetrachloroethane	µg/kg	81.3	86.1	44.1 - 126	Acceptable	EPA 8260B
5115	Tetrachloroethylene	µg/kg	109	109	48.9 - 158	Acceptable	EPA 8260B
5140	Toluene	µg/kg	72.7	69.7	39.7 - 98.3	Acceptable	EPA 8260B
5155	1,2,4-Trichlorobenzene	µg/kg	126	141	48.6 - 221	Acceptable	EPA 8260B
5160	1,1,1-Trichloroethane	µg/kg	42.2	46.4	24.6 - 65.8	Acceptable	EPA 8260B
5165	1,1,2-Trichloroethane	µg/kg	155	136	79.6 - 187	Acceptable	EPA 8260B
5170	Trichloroethylene	µg/kg	157	159	81.9 - 226	Acceptable	EPA 8260B
5175	Trichlorofluoromethane	µg/kg	< 5.0	0.00		Acceptable	EPA 8260B
5180	1,2,3-Trichloropropane (TCP)	µg/kg	116	159	36.7 - 274	Acceptable	EPA 8260B
5225	Vinyl acetate	µg/kg	< 50.0	0.00		Acceptable	EPA 8260B
5235	Vinyl chloride	µg/kg	< 10.0	0.00		Acceptable	EPA 8260B
5260	Xylenes, total	µg/kg	225	244	120 - 358	Acceptable	EPA 8260B

SOIL Nitroaromatics & Nitramines in Soil (cat# 871)

9306	4-Amino-2,6-dinitrotoluene	µg/kg	1580	2120	1050 - 2330	Acceptable	EPA 8330
9303	2-Amino-4,6-dinitrotoluene	µg/kg	1440	1670	709 - 2320	Acceptable	EPA 8330
6160	1,3-Dinitrobenzene	µg/kg	6730	7000	4410 - 8830	Acceptable	EPA 8330
6185	2,4-Dinitrotoluene	µg/kg	2110	2270	281 - 4120	Acceptable	EPA 8330
6190	2,6-Dinitrotoluene	µg/kg	8000	7910	3220 - 12000	Acceptable	EPA 8330
9522	HMX	µg/kg	1300	1690	761 - 2380	Acceptable	EPA 8330
5015	Nitrobenzene	µg/kg	9500	9340	2480 - 15100	Acceptable	EPA 8330
9507	2-Nitrotoluene	µg/kg	7220	7340	3720 - 10200	Acceptable	EPA 8330
9510	3-Nitrotoluene	µg/kg	5440	5300	3940 - 6410	Acceptable	EPA 8330
9513	4-Nitrotoluene	µg/kg	6780	6630	3900 - 8980	Acceptable	EPA 8330
9432	RDX	µg/kg	2010	2800	1430 - 3710	Acceptable	EPA 8330
6415	Tetryl	µg/kg	< 199	0.00		Acceptable	EPA 8330
6885	1,3,5-Trinitrobenzene	µg/kg	2020	2230	808 - 3400	Acceptable	EPA 8330
9651	2,4,6-Trinitrotoluene	µg/kg	4050	4850	2540 - 5340	Acceptable	EPA 8330





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Low-Level PAHs in Soil (cat# 625)							
5500	Acenaphthene	µg/kg	664	630	100 - 810	Acceptable	EPA 8310 UV
5505	Acenaphthylene	µg/kg	175	163	30.0 - 259	Acceptable	EPA 8310 UV
5555	Anthracene	µg/kg	675	740	109 - 963	Acceptable	EPA 8310 FLUOR
5575	Benzo(a)anthracene	µg/kg	244	237	74.7 - 307	Acceptable	EPA 8310 FLUOR
5585	Benzo(b)fluoranthene	µg/kg	404	401	155 - 510	Acceptable	EPA 8310 FLUOR
5600	Benzo(k)fluoranthene	µg/kg	429	441	138 - 567	Acceptable	EPA 8310 FLUOR
5590	Benzo(g,h,i)perylene	µg/kg	149	147	20.0 - 230	Acceptable	EPA 8310 FLUOR
5580	Benzo(a)pyrene	µg/kg	228	253	48.2 - 329	Acceptable	EPA 8310 FLUOR
5855	Chrysene	µg/kg	166	162	35.4 - 226	Acceptable	EPA 8310 FLUOR
5895	Dibenz(a,h)anthracene	µg/kg	164	147	35.4 - 219	Acceptable	EPA 8310 FLUOR
6265	Fluoranthene	µg/kg	727	732	216 - 946	Acceptable	EPA 8310 FLUOR
6270	Fluorene	µg/kg	169	161	22.0 - 223	Acceptable	EPA 8310 UV
6315	Indeno(1,2,3-cd)pyrene	µg/kg	102	97.1	16.2 - 146	Acceptable	EPA 8310 FLUOR
5005	Naphthalene	µg/kg	746	716	71.6 - 933	Acceptable	EPA 8310 UV
6615	Phenanthrene	µg/kg	633	621	170 - 785	Acceptable	EPA 8310 FLUOR
6665	Pyrene	µg/kg	105	95.6	26.0 - 140	Acceptable	EPA 8310 FLUOR





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

5500	Acenaphthene	µg/kg	1430	2230	447 - 2870	Acceptable	EPA 8270C
5505	Acenaphthylene	µg/kg	1350	1710	340 - 2450	Acceptable	EPA 8270C
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg		0.00		Not Reported	
5555	Anthracene	µg/kg	2510	4370	983 - 5320	Acceptable	EPA 8270C
5595	Benzidine	µg/kg		0.00		Not Reported	
5610	Benzoic acid	µg/kg	< 1670	0.00		Acceptable	EPA 8270C
5575	Benzo(a)anthracene	µg/kg	1250	1720	457 - 2210	Acceptable	EPA 8270C
5585	Benzo(b)fluoranthene	µg/kg	1840	2830	700 - 3820	Acceptable	EPA 8270C
5600	Benzo(k)fluoranthene	µg/kg	3510	4550	1330 - 6350	Acceptable	EPA 8270C
5590	Benzo(g,h,i)perylene	µg/kg	< 66.7	0.00		Acceptable	EPA 8270C
5580	Benzo(a)pyrene	µg/kg	1670	2520	578 - 3250	Acceptable	EPA 8270C
5630	Benzyl alcohol	µg/kg	< 333	0.00		Acceptable	EPA 8270C
5760	bis(2-Chloroethoxy)methane	µg/kg	< 333	0.00		Acceptable	EPA 8270C
5765	bis(2-Chloroethyl)ether	µg/kg	3200	5390	325 - 6640	Acceptable	EPA 8270C
5780	bis(2-Chloroisopropyl)ether	µg/kg	< 333	0.00		Acceptable	EPA 8270C
5660	4-Bromophenyl-phenylether	µg/kg	4000	5910	1840 - 7670	Acceptable	EPA 8270C
5670	Butylbenzylphthalate	µg/kg	4140	6350	1440 - 8880	Acceptable	EPA 8270C
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg	< 333	0.00		Acceptable	EPA 8270C
5700	4-Chloro-3-methylphenol	µg/kg	3450	7440	1950 - 8680	Acceptable	EPA 8270C
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg	< 333	0.00		Acceptable	EPA 8270C
5800	2-Chlorophenol	µg/kg	2320	4030	501 - 4820	Acceptable	EPA 8270C
5825	4-Chlorophenyl-phenylether	µg/kg	4910	6690	1880 - 8730	Acceptable	EPA 8270C
5855	Chrysene	µg/kg	2500	4270	982 - 4700	Acceptable	EPA 8270C
5895	Dibenz(a,h)anthracene	µg/kg	< 66.7	0.00		Acceptable	EPA 8270C
5905	Dibenzofuran	µg/kg	1970	3140	849 - 3910	Acceptable	EPA 8270C
5925	Di-n-butylphthalate	µg/kg	< 333	0.00		Acceptable	EPA 8270C
4610	1,2-Dichlorobenzene	µg/kg	2090	3610	361 - 4360	Acceptable	EPA 8270C
4615	1,3-Dichlorobenzene	µg/kg	2900	5840	584 - 6710	Acceptable	EPA 8270C
4620	1,4-Dichlorobenzene	µg/kg	< 333	0.00		Acceptable	EPA 8270C





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QA Director
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2323 Fifth Street
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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 04/02/09
Study Dates: 01/26/09 - 03/12/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg	< 667	0.00		Acceptable	EPA 8270C
6000	2,4-Dichlorophenol	µg/kg	3690	7770	1280 - 8970	Acceptable	EPA 8270C
6005	2,6-Dichlorophenol	µg/kg		6660	1040 - 8340	Not Reported	
6070	Diethylphthalate	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6130	2,4-Dimethylphenol	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6135	Dimethylphthalate	µg/kg	3650	5870	1630 - 7520	Acceptable	EPA 8270C
6175	2,4-Dinitrophenol	µg/kg	< 667	5020	0.00 - 5520	Acceptable	EPA 8270C
6185	2,4-Dinitrotoluene	µg/kg	3690	6580	1240 - 8920	Acceptable	EPA 8270C
6190	2,6-Dinitrotoluene	µg/kg	3390	5220	1550 - 6530	Acceptable	EPA 8270C
6200	Di-n-octylphthalate	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6065	bis(2-Ethylhexyl)phthalate	µg/kg	4300	6120	1550 - 8520	Acceptable	EPA 8270C
6265	Fluoranthene	µg/kg	3480	5340	1740 - 6770	Acceptable	EPA 8270C
6270	Fluorene	µg/kg	4160	6000	1940 - 7530	Acceptable	EPA 8270C
6275	Hexachlorobenzene	µg/kg	< 333	0.00		Acceptable	EPA 8270C
4835	Hexachlorobutadiene	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6285	Hexachlorocyclopentadiene	µg/kg	< 667	0.00		Acceptable	EPA 8270C
4840	Hexachloroethane	µg/kg	3360	7210	340 - 8130	Acceptable	EPA 8270C
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1010	1700	200 - 2110	Acceptable	EPA 8270C
6320	Isophorone	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 667	0.00		Acceptable	EPA 8270C
6385	2-Methylnaphthalene	µg/kg	< 66.7	0.00		Acceptable	EPA 8270C
6400	2-Methylphenol	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6410	3&4-Methylphenol	µg/kg	2500	6160	524 - 6780	Acceptable	EPA 8270C
5005	Naphthalene	µg/kg	3640	5770	1120 - 6580	Acceptable	EPA 8270C
6460	2-Nitroaniline	µg/kg	< 667	0.00		Acceptable	EPA 8270C
6465	3-Nitroaniline	µg/kg	< 667	0.00		Acceptable	EPA 8270C
6470	4-Nitroaniline	µg/kg	< 667	0.00		Acceptable	EPA 8270C
5015	Nitrobenzene	µg/kg	2410	4480	612 - 5540	Acceptable	EPA 8270C
6490	2-Nitrophenol	µg/kg	3040	6900	690 - 7800	Acceptable	EPA 8270C
6500	4-Nitrophenol	µg/kg	2450	6700	670 - 9070	Acceptable	EPA 8270C
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	< 333	0.00		Acceptable	EPA 8270C





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Report Issued: 04/02/09
Study Dates: 01/26/09 - 03/12/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6535	N-Nitrosodiphenylamine	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6545	N-Nitroso-di-n-propylamine	µg/kg	< 333	0.00		Acceptable	EPA 8270C
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	361	7100	710 - 7810	Not Acceptable	EPA 8270C
6615	Phenanthrene	µg/kg	3310	5080	1620 - 6490	Acceptable	EPA 8270C
6625	Phenol	µg/kg	4990	10000	1000 - 12100	Acceptable	EPA 8270C
6665	Pyrene	µg/kg	3100	4530	1370 - 5860	Acceptable	EPA 8270C
5095	Pyridine	µg/kg		0.00		Not Reported	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	2960	5260	878 - 6130	Acceptable	EPA 8270C
6835	2,4,5-Trichlorophenol	µg/kg	2870	5940	853 - 7130	Acceptable	EPA 8270C
6840	2,4,6-Trichlorophenol	µg/kg	2760	5120	884 - 6170	Acceptable	EPA 8270C

SOIL Organochlorine Pesticides in Soil (cat# 468)

7025	Aldrin	µg/kg	145	180	50.6 - 236	Acceptable	EPA 8081A
7110	alpha-BHC	µg/kg	142	187	45.4 - 230	Acceptable	EPA 8081A
7115	beta-BHC	µg/kg	262	397	76.6 - 531	Acceptable	EPA 8081A
7105	delta-BHC	µg/kg	289	387	94.4 - 507	Acceptable	EPA 8081A
7120	gamma-BHC(Lindane)	µg/kg	297	420	113 - 520	Acceptable	EPA 8081A
7240	alpha-Chlordane	µg/kg	278	362	118 - 460	Acceptable	EPA 8081A
7245	gamma-Chlordane	µg/kg	185	231	87.9 - 285	Acceptable	EPA 8081A
7355	4,4'-DDD	µg/kg	358	442	150 - 563	Acceptable	EPA 8081A
7360	4,4'-DDE	µg/kg	384	407	139 - 532	Acceptable	EPA 8081A
7365	4,4'-DDT	µg/kg	150	217	48.2 - 295	Acceptable	EPA 8081A
7470	Dieldrin	µg/kg	368	478	171 - 597	Acceptable	EPA 8081A
7540	Endrin	µg/kg	212	262	107 - 345	Acceptable	EPA 8081A
7530	Endrin aldehyde	µg/kg	171	333	38.1 - 407	Acceptable	EPA 8081A
7535	Endrin ketone	µg/kg	242	334	85.4 - 460	Acceptable	EPA 8081A
7510	Endosulfan I	µg/kg	189	442	71.4 - 486	Acceptable	EPA 8081A
7515	Endosulfan II	µg/kg	214	474	78.2 - 521	Acceptable	EPA 8081A
7520	Endosulfan sulfate	µg/kg	178	293	60.7 - 407	Acceptable	EPA 8081A
7685	Heptachlor	µg/kg	126	168	47.7 - 225	Acceptable	EPA 8081A
7690	Heptachlor epoxide	µg/kg	132	178	59.6 - 235	Acceptable	EPA 8081A
7810	Methoxychlor	µg/kg	307	403	44.8 - 615	Acceptable	EPA 8081A

SOIL Chlordane in Soil (cat# 628)

7250	Chlordane, technical	µg/kg	731	935	188 - 1220	Acceptable	EPA 8081A
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SOIL Toxaphene in Soil (cat# 627)

8250	Toxaphene	µg/kg	374	940	94.0 - 1210	Acceptable	EPA 8081A
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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 04/02/09
Study Dates: 01/26/09 - 03/12/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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SOIL PCBs in Soil (cat# 624)

8880	Aroclor 1016	mg/kg	< 0.497	0.00		Acceptable	EPA 8082
8885	Aroclor 1221	mg/kg	< 0.993	0.00		Acceptable	EPA 8082
8890	Aroclor 1232	mg/kg	< 0.497	0.00		Acceptable	EPA 8082
8895	Aroclor 1242	mg/kg	< 0.497	0.00		Acceptable	EPA 8082
8900	Aroclor 1248	mg/kg	33.7	38.9	10.3 - 54.6	Acceptable	EPA 8082
8905	Aroclor 1254	mg/kg	< 0.497	0.00		Acceptable	EPA 8082
8910	Aroclor 1260	mg/kg	< 0.497	0.00		Acceptable	EPA 8082

SOIL BTEX & MTBE in Soil (cat# 633)

4375	Benzene	µg/kg	96.4	116	69.5 - 159	Acceptable	EPA 8021B
5000	tert-Butyl methyl ether (MTBE)	µg/kg	57.5	72.0	30.0 - 111	Acceptable	EPA 8021B
4765	Ethylbenzene	µg/kg	139	164	92.1 - 233	Acceptable	EPA 8021B
5140	Toluene	µg/kg	116	97.7	56.0 - 137	Acceptable	EPA 8021B
5260	Xylenes, total	µg/kg	144	140	68.0 - 207	Acceptable	EPA 8021B

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

9408	Gasoline Range Organics (GRO)	mg/kg	1290	1120	297 - 2130	Acceptable	EPA 8015B
4375	Benzene in GRO	mg/kg		9.05	0.00 - 9.96	Not Reported	
4765	Ethylbenzene in GRO	mg/kg		46.5	21.3 - 58.2	Not Reported	
5140	Toluene in GRO	mg/kg		178	70.9 - 196	Not Reported	
5260	Xylenes, total in GRO	mg/kg		258	130 - 337	Not Reported	

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

9369	Diesel Range Organics (DRO)	mg/kg	2200	2200	734 - 2800	Acceptable	EPA 8015B
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SOIL Arizona TPH in Soil (cat# 488)

9369	No. 2 Diesel (C10-C22)	mg/kg	117	89.3	10.0 - 131	Acceptable	EPA 8015AZ
9526	Oil Range Organics (C22-C32)	mg/kg	237	241	83.1 - 325	Acceptable	EPA 8015AZ
2050	Total Petroleum Hydrocarbons (C10-C32)	mg/kg		330	96.9 - 448	Not Reported	





19 May 2009

Fred Choske
CA-DHS ELAP
850 Marina Bay Parkway
Bldg P, 1st Floor
Richmond, CA 94804

Subject: Corrective Action Determination for Soil-65 Failures

Dear Mr. Choske;

The following corrective actions were taken in response to failures observed in PT samples analyzed in ERA's Jan 2009 PT study, Soil-65 study (C&T Job # 209723).

Base/Neutrals (EPA 8270C): The Pentachlorophenol result (361 ug/Kg) was outside study acceptance limits (710 – 7810 ug/L).

Investigation:

- ✓ Data entry into the ERA database was correct.
- ✓ Initial calibration curve passed acceptance limits.
- ✓ ICV recovery of 91% passed acceptance limits.
- ✓ CCV recovery of 88% was within acceptance criteria.
- ✓ LCS recovery of 67% was low but within acceptance limits.

Resolution: The source of the error could not be determined. A remedial PT sample will be ordered from ERA.

Please let me know if any further action is required or you need more information.

Sincerely,

Carol Wortham
Quality Assurance Director
Direct: (510) 204-2237



Carol Wortham
Curtis & Tompkins LTD
2323 Fifth Street
Berkeley, CA 94710

SOIL-66



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 04/20/09

Close Date: 06/04/09

Report Issued Date: 06/25/09



June 25, 2009

Carol Wortham
Curtis & Tompkins LTD
2323 Fifth Street
Berkeley, CA 94710

Enclosed is your final report for ERA's SOIL-66 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-66 Proficiency Testing (PT) study have been evaluated using the following tiered approach. If the analyte is listed in the most current National Environmental Laboratory Accreditation Conference (NELAC) PT Field of Testing tables, the evaluation was completed by comparing the reported result to the acceptance limits generated using the criteria contained in the NELAC FoPT tables. If the analyte is not included in the NELAC 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).

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-66 Proficiency Testing study. If you have any questions, please contact Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Sincerely,

Shawn Kassner
Proficiency Testing Manager

Jay R. McBurney
Quality Program Manager

attachments
smk



Report Recipient	Contact/Phone Number	Reporting Type
Alaska	Lance Morris / 907-375-8210	All Analytes
Arizona	Terry Norcop / 602-364-0720	All Analytes
California	Fred Choske / 510-620-3175	All Analytes
Nevada	Sara Rairick / 775-687-9490	All Analytes
Utah	Kristin Brown / 801-538-9371	All Analytes
Washington	Connie Schreiber / 360-895-6145	All Analytes

SOIL-66 Definitions & Study Discussion

Study Dates: 04/20/09 - 06/04/09

Report Issued: 06/25/09

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. All NELAC parameters not added to a standard are given an assigned Value of "0", per the guidance issued by the NELAC Board of Directors, on December 14, 2000. Non-NELAC parameters not added to a standard may be given an assigned value of less than a minimum verified concentration as determined in the background soil for applicable EPA methodologies.

The Acceptance Limits are established per the NELAC PT program criteria 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-66 Proficiency Testing (PT) study has been reviewed by ERA senior management and certified compliant with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC), Proficiency Testing Program Standards, Chapter 2, July 2003.

Per the requirements of the NELAC Proficiency Testing Program, a full review of all homogeneity, stability, and accuracy verification data was completed. All analytical verification data for all analytes in the Soil study standards met the acceptance criteria contained in the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is included in the NELAC Fields of Testing list the acceptance limits were calculated based on the NELAC Proficiency Testing Program Standards, Chapter 2, July 2003. If the analyte is not included in the NELAC Fields of Testing list, the acceptance limits were calculated using the procedures outlined in ERA's Standard Operating Procedure for the Generation of Performance Acceptance Limits (SOP 0260, Rev. 2.0).

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-66 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 Shawn Kassner, Proficiency Testing Manager, or Curtis Wood, Director of Regulatory Affairs and Business Development, at 1-800-372-0122.

Study: **SOIL-66**

ERA Customer Number: **C879201**

Laboratory Name: **Curtis & Tompkins LTD**



Organic Results

Carol Wortham
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2323 Fifth Street
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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 06/25/09
Study Dates: 04/20/09 - 06/04/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467)							
5500	Acenaphthene	µg/kg		2330	466 - 2940	Not Reported	
5505	Acenaphthylene	µg/kg		6910	1570 - 8130	Not Reported	
5145	2-Amino-1-methylbenzene (o-toluidine)	µg/kg		0.00		Not Reported	
5545	Aniline	µg/kg		0.00		Not Reported	
5555	Anthracene	µg/kg		3420	720 - 4130	Not Reported	
5595	Benzidine	µg/kg		0.00		Not Reported	
5610	Benzoic acid	µg/kg		0.00		Not Reported	
5575	Benzo(a)anthracene	µg/kg		1490	415 - 2070	Not Reported	
5585	Benzo(b)fluoranthene	µg/kg		1470	317 - 2190	Not Reported	
5600	Benzo(k)fluoranthene	µg/kg		3120	816 - 3960	Not Reported	
5590	Benzo(g,h,i)perylene	µg/kg		1560	223 - 2090	Not Reported	
5580	Benzo(a)pyrene	µg/kg		0.00		Not Reported	
5630	Benzyl alcohol	µg/kg		0.00		Not Reported	
5760	bis(2-Chloroethoxy)methane	µg/kg		0.00		Not Reported	
5765	bis(2-Chloroethyl)ether	µg/kg		0.00		Not Reported	
5780	bis(2-Chloroisopropyl)ether	µg/kg		0.00		Not Reported	
5660	4-Bromophenyl-phenylether	µg/kg		9110	2910 - 12000	Not Reported	
5670	Butylbenzylphthalate	µg/kg		0.00		Not Reported	
5680	Carbazole	µg/kg		0.00		Not Reported	
5745	4-Chloroaniline	µg/kg		0.00		Not Reported	
5700	4-Chloro-3-methylphenol	µg/kg		0.00		Not Reported	
5790	1-Chloronaphthalene	µg/kg		0.00		Not Reported	
5795	2-Chloronaphthalene	µg/kg		5900	1280 - 6980	Not Reported	
5800	2-Chlorophenol	µg/kg		9750	1600 - 10700	Not Reported	
5825	4-Chlorophenyl-phenylether	µg/kg		0.00		Not Reported	
5855	Chrysene	µg/kg		1600	478 - 2220	Not Reported	
5895	Dibenz(a,h)anthracene	µg/kg		4100	1080 - 5590	Not Reported	
5905	Dibenzofuran	µg/kg		3930	1040 - 4770	Not Reported	
5925	Di-n-butylphthalate	µg/kg		12000	3130 - 16300	Not Reported	
4610	1,2-Dichlorobenzene	µg/kg		6960	696 - 7660	Not Reported	
4615	1,3-Dichlorobenzene	µg/kg		13300	1330 - 14600	Not Reported	
4620	1,4-Dichlorobenzene	µg/kg		5330	533 - 5860	Not Reported	

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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 06/25/09
Study Dates: 04/20/09 - 06/04/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)							
5945	3,3'-Dichlorobenzidine	µg/kg		0.00		Not Reported	
6000	2,4-Dichlorophenol	µg/kg		3690	375 - 4290	Not Reported	
6005	2,6-Dichlorophenol	µg/kg		10400	2620 - 11400	Not Reported	
6070	Diethylphthalate	µg/kg		0.00		Not Reported	
6130	2,4-Dimethylphenol	µg/kg		7870	0.00 - 8660	Not Reported	
6135	Dimethylphthalate	µg/kg		0.00		Not Reported	
6175	2,4-Dinitrophenol	µg/kg		12000	0.00 - 13200	Not Reported	
6185	2,4-Dinitrotoluene	µg/kg		2800	298 - 4200	Not Reported	
6190	2,6-Dinitrotoluene	µg/kg		11500	3820 - 14000	Not Reported	
6200	Di-n-octylphthalate	µg/kg		8370	1310 - 12600	Not Reported	
6065	bis(2-Ethylhexyl)phthalate	µg/kg		0.00		Not Reported	
6265	Fluoranthene	µg/kg		0.00		Not Reported	
6270	Fluorene	µg/kg		0.00		Not Reported	
6275	Hexachlorobenzene	µg/kg		0.00		Not Reported	
4835	Hexachlorobutadiene	µg/kg		3860	515 - 4730	Not Reported	
6285	Hexachlorocyclopentadiene	µg/kg		0.00		Not Reported	
4840	Hexachloroethane	µg/kg		10200	0.00 - 11200	Not Reported	
6315	Indeno(1,2,3-cd)pyrene	µg/kg		0.00		Not Reported	
6320	Isophorone	µg/kg		4480	1140 - 5110	Not Reported	
6360	4,6-Dinitro-2-methylphenol	µg/kg		9430	0.00 - 10400	Not Reported	
6385	2-Methylnaphthalene	µg/kg		2010	562 - 2420	Not Reported	
6400	2-Methylphenol	µg/kg		14500	1450 - 16000	Not Reported	
6410	3&4-Methylphenol	µg/kg		12300	2100 - 13500	Not Reported	
5005	Naphthalene	µg/kg		8570	1670 - 9430	Not Reported	
6460	2-Nitroaniline	µg/kg		0.00		Not Reported	
6465	3-Nitroaniline	µg/kg		0.00		Not Reported	
6470	4-Nitroaniline	µg/kg		0.00		Not Reported	
5015	Nitrobenzene	µg/kg		0.00		Not Reported	
6490	2-Nitrophenol	µg/kg		11200	1280 - 12500	Not Reported	
6500	4-Nitrophenol	µg/kg		0.00		Not Reported	
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg		0.00		Not Reported	

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EPA ID: CA00128
ERA Customer Number: C879201
Report Issued: 06/25/09
Study Dates: 04/20/09 - 06/04/09

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
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SOIL Base/Neutrals and Acids in Soil (cat# 467) (Continued)

6535	N-Nitrosodiphenylamine	µg/kg		0.00		Not Reported	
6545	N-Nitroso-di-n-propylamine	µg/kg		12700	1620 - 15400	Not Reported	
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	1550	7720	772 - 8490	Acceptable	EPA 8270C
6615	Phenanthrene	µg/kg		4710	1500 - 6080	Not Reported	
6625	Phenol	µg/kg		8900	890 - 10700	Not Reported	
6665	Pyrene	µg/kg		0.00		Not Reported	
5095	Pyridine	µg/kg		0.00		Not Reported	
6715	1,2,4,5-Tetrachlorobenzene	µg/kg		0.00		Not Reported	
6735	2,3,4,6-Tetrachlorophenol	µg/kg		0.00		Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg		4180	642 - 4820	Not Reported	
6835	2,4,5-Trichlorophenol	µg/kg		0.00		Not Reported	
6840	2,4,6-Trichlorophenol	µg/kg		8170	1690 - 9740	Not Reported	