

ACZ Laboratories Inc.

To: Analytical Staff
From: Kristen Russell
Cc: Audrey Stover, Matt Sowards
Subject: CAR847

PT Study SOIL-58 [L62234]

Open: 4/23/07

Close: 6/7/07

ACZ received the results of ERA's SOIL – 58 study. Unacceptable results and corrective actions follow:

Not Acceptable Results							
Parameter	Method	Units	Reported	Assigned	Limits	%R	WG#
Methylene chloride	8260B	ug/kg	131	74.2	37.6 – 108	177	224289

CORRECTIVE ACTIONS

Methylene Chloride – Methylene chloride was analyzed by EPA 8260B and a value of 71.3 ug/Kg was reported, which was outside of the acceptance limits. The CCV (118%), PBS (< MDL), LCSS (118%), and LCSSD (111%) for the workgroup are in control and no problems with the analytical system were noted. Methylene is noted as a “difficult” compound for the method and is also recognized as a common laboratory contaminant.

Two successive PT samples were analyzed for methylene chloride in soil. L64268-04 (QR080207A) was scheduled for analysis by EPA 8260B. A result of 153 ug/Kg was reported for methylene chloride, which is within the PT acceptance limits of 64.0 – 198 ug/Kg. L65282 (QR092507F) was scheduled for analysis by EPA 8260B. A result of 183 ug/Kg was reported, which is within the PT acceptance limits of 74.9 – 231 ug/Kg.

ACZ's semivolatiles lab is adjacent to the volatiles lab and is a potential source of methylene chloride contamination. ACZ is currently making improvements to its air handling system, which should greatly improve air quality in both laboratories and help to reduce cross-contamination from volatile solvents.



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L62234

**Matt Sowards
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SOIL-58



Final Report

Soil/Hazardous Waste Proficiency Testing

Soil Study

Open Date: 04/23/07

Close Date: 06/07/07

Report Issued Date: 06/28/07



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The Industry Standard™

Study: **SOIL-58**

ERA Laboratory Code: **A144801**

Laboratory Name: **ACZ Laboratories**

Inorganic Results





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EPA ID: **CO00028**
ERA Laboratory Code: **A144801**
Report Issued: **06/28/07**
Study Dates: **04/23/07 - 06/07/07**

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Metals in Soil							
1000	Aluminum	mg/kg	13900	12100	4120 - 17000	Acceptable	EPA 6010B
1005	Antimony	mg/kg	97.9	246	0.00 - 246	Acceptable	EPA 6010B
1010	Arsenic	mg/kg	128	163	93.5 - 173	Acceptable	EPA 6010B
1015	Barium	mg/kg	261	233	163 - 289	Acceptable	EPA 6010B
1020	Beryllium	mg/kg	121	126	88.3 - 146	Acceptable	EPA 6010B
1025	Boron	mg/kg	132	149	68.7 - 182	Acceptable	EPA 6010B
1030	Cadmium	mg/kg	99.3	117	76.7 - 129	Acceptable	EPA 6010B
1035	Calcium	mg/kg	9550	9880	7210 - 12000	Acceptable	EPA 6010B
1040	Chromium	mg/kg	223	242	164 - 273	Acceptable	EPA 6010B
1050	Cobalt	mg/kg	132	144	95.9 - 170	Acceptable	EPA 6010B
1055	Copper	mg/kg	150	165	116 - 194	Acceptable	EPA 6010B
1070	Iron	mg/kg	20500	18700	10300 - 26700	Acceptable	EPA 6010B
1075	Lead	mg/kg	166	184	121 - 215	Acceptable	EPA 6010B
1085	Magnesium	mg/kg	5190	5070	3580 - 6100	Acceptable	EPA 6010B
1090	Manganese	mg/kg	525	514	402 - 618	Acceptable	EPA 6010B
1095	Mercury	mg/kg		6.26	3.54 - 8.92	Not Reported	
1100	Molybdenum	mg/kg	118	131	78.2 - 144	Acceptable	EPA 6010B
1105	Nickel	mg/kg	119	135	84.0 - 154	Acceptable	EPA 6010B
1125	Potassium	mg/kg	5860	5860	3810 - 6800	Acceptable	EPA 6010B
1140	Selenium	mg/kg	104	106	61.3 - 127	Acceptable	EPA 6010B
1150	Silver	mg/kg	82.2	87.7	52.4 - 110	Acceptable	EPA 6010B
1155	Sodium	mg/kg	866	831	548 - 1050	Acceptable	EPA 6010B
1160	Strontium	mg/kg	204	206	143 - 241	Acceptable	EPA 6010B
1165	Thallium	mg/kg	175	173	109 - 196	Acceptable	EPA 6010B
1175	Tin	mg/kg	108	125	69.1 - 148	Acceptable	EPA 6010B
1180	Titanium	mg/kg	673	447	0.00 - 851	Acceptable	EPA 6010B
1185	Vanadium	mg/kg	135	142	87.5 - 158	Acceptable	EPA 6010B
1190	Zinc	mg/kg	306	294	200 - 360	Acceptable	EPA 6010B





SOIL-58 Final Complete Report

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EPA ID: CO00028
ERA Laboratory Code: A144801
Report Issued: 06/28/07
Study Dates: 04/23/07 - 06/07/07

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Metals in Soil							
1000	Aluminum	mg/kg		12100	4120 - 17000	Not Reported	
1005	Antimony	mg/kg		246	0.00 - 246	Not Reported	
1010	Arsenic	mg/kg		163	93.5 - 173	Not Reported	
1015	Barium	mg/kg		233	163 - 289	Not Reported	
1020	Beryllium	mg/kg		126	88.3 - 146	Not Reported	
1025	Boron	mg/kg		149	68.7 - 182	Not Reported	
1030	Cadmium	mg/kg		117	76.7 - 129	Not Reported	
1035	Calcium	mg/kg		9880	7210 - 12000	Not Reported	
1040	Chromium	mg/kg		242	164 - 273	Not Reported	
1050	Cobalt	mg/kg		144	95.9 - 170	Not Reported	
1055	Copper	mg/kg		165	116 - 194	Not Reported	
1070	Iron	mg/kg		18700	10300 - 26700	Not Reported	
1075	Lead	mg/kg		184	121 - 215	Not Reported	
1085	Magnesium	mg/kg		5070	3580 - 6100	Not Reported	
1090	Manganese	mg/kg		514	402 - 618	Not Reported	
1095	Mercury	mg/kg	5.41	6.26	3.54 - 8.92	Acceptable	EPA 7471A
1100	Molybdenum	mg/kg		131	78.2 - 144	Not Reported	
1105	Nickel	mg/kg		135	84.0 - 154	Not Reported	
1125	Potassium	mg/kg		5860	3810 - 6800	Not Reported	
1140	Selenium	mg/kg		106	61.3 - 127	Not Reported	
1150	Silver	mg/kg		87.7	52.4 - 110	Not Reported	
1155	Sodium	mg/kg		831	548 - 1050	Not Reported	
1160	Strontium	mg/kg		206	143 - 241	Not Reported	
1165	Thallium	mg/kg		173	109 - 196	Not Reported	
1175	Tin	mg/kg		125	69.1 - 148	Not Reported	
1180	Titanium	mg/kg		447	0.00 - 851	Not Reported	
1185	Vanadium	mg/kg		142	87.5 - 158	Not Reported	
1190	Zinc	mg/kg		294	200 - 360	Not Reported	





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Metals in Soil

1000	Aluminum	mg/kg	13500	12100	4120 - 17000	Acceptable	EPA 6020
1005	Antimony	mg/kg	100	246	0.00 - 246	Acceptable	EPA 6020
1010	Arsenic	mg/kg	155	163	93.5 - 173	Acceptable	EPA 6020
1015	Barium	mg/kg	256	233	163 - 289	Acceptable	EPA 6020
1020	Beryllium	mg/kg	131	126	88.3 - 146	Acceptable	EPA 6020
1025	Boron	mg/kg		149	68.7 - 182	Not Reported	
1030	Cadmium	mg/kg	112	117	76.7 - 129	Acceptable	EPA 6020
1035	Calcium	mg/kg		9880	7210 - 12000	Not Reported	
1040	Chromium	mg/kg	216	242	164 - 273	Acceptable	EPA 6020
1050	Cobalt	mg/kg	136	144	95.9 - 170	Acceptable	EPA 6020
1055	Copper	mg/kg	177	165	116 - 194	Acceptable	EPA 6020
1070	Iron	mg/kg		18700	10300 - 26700	Not Reported	
1075	Lead	mg/kg	177	184	121 - 215	Acceptable	EPA 6020
1085	Magnesium	mg/kg		5070	3580 - 6100	Not Reported	
1090	Manganese	mg/kg	530	514	402 - 618	Acceptable	EPA 6020
1095	Mercury	mg/kg		6.26	3.54 - 8.92	Not Reported	
1100	Molybdenum	mg/kg	120	131	78.2 - 144	Acceptable	EPA 6020
1105	Nickel	mg/kg	141	135	84.0 - 154	Acceptable	EPA 6020
1125	Potassium	mg/kg		5860	3810 - 6800	Not Reported	
1140	Selenium	mg/kg	119	106	61.3 - 127	Acceptable	EPA 6020
1150	Silver	mg/kg	82.1	87.7	52.4 - 110	Acceptable	EPA 6020
1155	Sodium	mg/kg		831	548 - 1050	Not Reported	
1160	Strontium	mg/kg		206	143 - 241	Not Reported	
1165	Thallium	mg/kg	167	173	109 - 196	Acceptable	EPA 6020
1175	Tin	mg/kg		125	69.1 - 148	Not Reported	
1180	Titanium	mg/kg		447	0.00 - 851	Not Reported	
1185	Vanadium	mg/kg	134	142	87.5 - 158	Acceptable	EPA 6020
1190	Zinc	mg/kg	327	294	200 - 360	Acceptable	EPA 6020

Hexavalent Chromium in Soil

1045	Chromium VI	mg/kg	192	186	70.9 - 236	Acceptable	EPA 7196A
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Cyanide in Soil

1635	Cyanide, total	mg/kg	71.5	83.1	29.8 - 119	Acceptable	EPA 9012A
1640	Reactive Cyanide	mg/kg		< 25.0		Not Reported	

Corrosivity/pH in Soil

1625	Corrosivity (pH)	S.U.	9.36	9.50	8.76 - 10.1	Acceptable	EPA 9045C
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Ignitability/Flashpoint

1780	Ignitability/Flashpoint	°F	114	111	97.8 - 127	Acceptable	EPA 1010
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Study: **SOIL-58**

ERA Laboratory Code: **A144801**

Laboratory Name: **ACZ Laboratories**

Organic Results





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Volatiles in Soil							
4315	Acetone	µg/kg	251	186	8.08 - 31.0	Acceptable	EPA 8260B
4320	Acetonitrile	µg/kg		0.00		Not Reported	
4325	Acrolein	µg/kg		0.00		Not Reported	
4375	Benzene	µg/kg	25.0	23.3	15.6 - 31.9	Acceptable	EPA 8260B
4395	Bromodichloromethane	µg/kg	77.6	71.1	49.7 - 98.7	Acceptable	EPA 8260B
4400	Bromoform	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4950	Bromomethane	µg/kg	272	196	39.8 - 330	Acceptable	EPA 8260B
4410	2-Butanone (MEK)	µg/kg	209	177	53.4 - 273	Acceptable	EPA 8260B
5000	tert-Butyl methyl ether (MTBE)	µg/kg	136	118	74.4 - 168	Acceptable	EPA 8260B
4450	Carbon disulfide	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4455	Carbon tetrachloride	µg/kg	140	138	88.4 - 201	Acceptable	EPA 8260B
4475	Chlorobenzene	µg/kg	44.7	47.1	32.5 - 62.1	Acceptable	EPA 8260B
4575	Chlorodibromomethane	µg/kg	31.8	37.0	22.2 - 50.8	Acceptable	EPA 8260B
4485	Chloroethane	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4500	2-Chloroethylvinylether	µg/kg	< 50.0	0.00		Acceptable	EPA 8260B
4505	Chloroform	µg/kg	215	175	120 - 233	Acceptable	EPA 8260B
4960	Chloromethane	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4585	1,2-Dibromoethane (EDB)	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4595	Dibromomethane	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4610	1,2-Dichlorobenzene	µg/kg	73.4	77.5	47.3 - 107	Acceptable	EPA 8260B
4615	1,3-Dichlorobenzene	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4620	1,4-Dichlorobenzene	µg/kg	125	124	73.1 - 173	Acceptable	EPA 8260B
4625	Dichlorodifluoromethane	µg/kg	< 30.0	0.00		Acceptable	EPA 8260B
4630	1,1-Dichloroethane	µg/kg	229	190	120 - 265	Acceptable	EPA 8260B
4635	1,2-Dichloroethane	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4640	1,1-Dichloroethylene	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4645	cis-1,2-Dichloroethylene	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
4700	trans-1,2-Dichloroethylene	µg/kg	90.0	69.3	41.4 - 101	Acceptable	EPA 8260B
4655	1,2-Dichloropropane	µg/kg	32.7	31.2	21.0 - 41.9	Acceptable	EPA 8260B
4680	cis-1,3-Dichloropropylene	µg/kg	60.5	59.0	39.9 - 81.3	Acceptable	EPA 8260B
4685	trans-1,3-Dichloropropylene	µg/kg	68.4	84.1	51.7 - 123	Acceptable	EPA 8260B





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Report Issued: 06/28/07
Study Dates: 04/23/07 - 06/07/07

Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Volatiles in Soil (Continued)							
4765	Ethylbenzene	µg/kg	100	90.8	61.4 - 120	Acceptable	EPA 8260B
4860	2-Hexanone	µg/kg	165	193	72.5 - 290	Acceptable	EPA 8260B
4975	Methylene chloride	µg/kg	131	74.2	37.6 - 108	Not Acceptable	EPA 8260B
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	156	152	89.5 - 211	Acceptable	EPA 8260B
5005	Naphthalene	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
5100	Styrene	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
5105	1,1,1,2-Tetrachloroethane	µg/kg	154	164	110 - 229	Acceptable	EPA 8260B
5110	1,1,2,2-Tetrachloroethane	µg/kg	85.4	79.8	43.8 - 114	Acceptable	EPA 8260B
5115	Tetrachloroethylene	µg/kg	43.3	49.2	23.1 - 75.6	Acceptable	EPA 8260B
5140	Toluene	µg/kg	50.5	61.0	39.6 - 78.7	Acceptable	EPA 8260B
5160	1,1,1-Trichloroethane	µg/kg	95.2	94.5	60.6 - 136	Acceptable	EPA 8260B
5165	1,1,2-Trichloroethane	µg/kg	68.2	64.2	42.7 - 89.8	Acceptable	EPA 8260B
5170	Trichloroethylene	µg/kg	138	128	83.8 - 184	Acceptable	EPA 8260B
5175	Trichlorofluoromethane	µg/kg	221	159	66.2 - 274	Acceptable	EPA 8260B
5180	1,2,3-Trichloropropane (TCP)	µg/kg	66.5	57.7	18.0 - 92.8	Acceptable	EPA 8260B
5225	Vinyl acetate	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
5235	Vinyl chloride	µg/kg	< 20.0	0.00		Acceptable	EPA 8260B
5260	Xylenes, total	µg/kg	241	211	137 - 268	Acceptable	EPA 8260B





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Anal. No.	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description
Base/Neutrals and Acids in Soil							
5500	Acenaphthene	µg/kg	1810	2260	830 - 2490	Acceptable	EPA 8270C
5505	Acenaphthylene	µg/kg	1940	2360	794 - 2720	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	4160	5620	1720 - 7110	Acceptable	EPA 8270C
5595	Benidine	µg/kg		0.00		Not Reported	
5610	Benzoic acid	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
5575	Benzo(a)anthracene	µg/kg	1560	1850	732 - 2230	Acceptable	EPA 8270C
5585	Benzo(b)fluoranthene	µg/kg	2790	3520	1390 - 4300	Acceptable	EPA 8270C
5600	Benzo(k)fluoranthene	µg/kg	1370	1730	676 - 2120	Acceptable	EPA 8270C
5590	Benzo(g,h,i)perylene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5580	Benzo(a)pyrene	µg/kg	1010	1190	498 - 1440	Acceptable	EPA 8270C
5630	Benzyl alcohol	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5760	bis(2-Chloroethoxy)methane	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5765	bis(2-Chloroethyl)ether	µg/kg	1620	2600	309 - 2980	Acceptable	EPA 8270C
5780	bis(2-Chloroisopropyl)ether	µg/kg	1800	3140	734 - 3440	Acceptable	EPA 8270C
5660	4-Bromophenyl-phenylether	µg/kg	4420	5550	1870 - 6990	Acceptable	EPA 8270C
5670	Butylbenzylphthalate	µg/kg	3340	3990	1080 - 5470	Acceptable	EPA 8270C
5680	Carbazole	µg/kg		8700	1960 - 11500	Not Reported	
5745	4-Chloroaniline	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5700	4-Chloro-3-methylphenol	µg/kg	6420	9290	2220 - 11000	Acceptable	EPA 8270C
5790	1-Chloronaphthalene	µg/kg		3260	762 - 3850	Not Reported	
5795	2-Chloronaphthalene	µg/kg	3060	3610	907 - 4800	Acceptable	EPA 8270C
5800	2-Chlorophenol	µg/kg	4320	8680	859 - 10200	Acceptable	EPA 8270C
5825	4-Chlorophenyl-phenylether	µg/kg	2320	3010	1130 - 3550	Acceptable	EPA 8270C
5855	Chrysene	µg/kg	1090	1270	501 - 1640	Acceptable	EPA 8270C
5895	Dibenz(a,h)anthracene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
5905	Dibenzofuran	µg/kg	3290	4480	1410 - 5080	Acceptable	EPA 8270C
5925	Di-n-butylphthalate	µg/kg	4190	6110	1270 - 8330	Acceptable	EPA 8270C
4610	1,2-Dichlorobenzene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4615	1,3-Dichlorobenzene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4620	1,4-Dichlorobenzene	µg/kg	< 300	0.00		Acceptable	EPA 8270C





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Base/Neutrals and Acids in Soil (Continued)

5945	3,3'-Dichlorobenzidine	µg/kg	< 700	0.00		Acceptable	EPA 8270C
6000	2,4-Dichlorophenol	µg/kg	4240	6750	1380 - 7720	Acceptable	EPA 8270C
6005	2,6-Dichlorophenol	µg/kg		5010	1430 - 5260	Not Reported	
6070	Diethylphthalate	µg/kg	2320	3060	1020 - 3780	Acceptable	EPA 8270C
6130	2,4-Dimethylphenol	µg/kg	< 700	0.00		Acceptable	EPA 8270C
6135	Dimethylphthalate	µg/kg	6360	8730	2140 - 11000	Acceptable	EPA 8270C
6175	2,4-Dinitrophenol	µg/kg	2030	4940	0.00 - 4940	Acceptable	EPA 8270C
6185	2,4-Dinitrotoluene	µg/kg	4490	6060	2020 - 7090	Acceptable	EPA 8270C
6190	2,6-Dinitrotoluene	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6200	Di-n-octylphthalate	µg/kg	4900	6390	1020 - 9420	Acceptable	EPA 8270C
6255	bis(2-Ethylhexyl)phthalate	µg/kg	6650	8290	1550 - 11700	Acceptable	EPA 8270C
6265	Fluoranthene	µg/kg	2310	3090	1320 - 3590	Acceptable	EPA 8270C
6270	Fluorene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6275	Hexachlorobenzene	µg/kg	2090	2670	997 - 3180	Acceptable	EPA 8270C
4835	Hexachlorobutadiene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6285	Hexachlorocyclopentadiene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
4840	Hexachloroethane	µg/kg	1760	4630	39.2 - 4810	Acceptable	EPA 8270C
6315	Indeno(1,2,3-cd)pyrene	µg/kg	1560	2200	444 - 2620	Acceptable	EPA 8270C
6320	Isophorone	µg/kg	6260	8420	1670 - 10600	Acceptable	EPA 8270C
6360	4,6-Dinitro-2-methylphenol	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6385	2-Methylnaphthalene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6400	2-Methylphenol	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6412	3&4-Methylphenol	µg/kg	3710	8740	349 - 8740	Acceptable	EPA 8270C
5005	Naphthalene	µg/kg	1180	1760	380 - 2000	Acceptable	EPA 8270C
6460	2-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6465	3-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
6470	4-Nitroaniline	µg/kg	< 2000	0.00		Acceptable	EPA 8270C
5015	Nitrobenzene	µg/kg	3300	5570	915 - 6270	Acceptable	EPA 8270C
6490	2-Nitrophenol	µg/kg	3700	5520	1160 - 5740	Acceptable	EPA 8270C
6500	4-Nitrophenol	µg/kg	5520	9400	0.00 - 11600	Acceptable	EPA 8270C
6525	N-Nitrosodiethylamine	µg/kg		0.00		Not Reported	
6530	N-Nitrosodimethylamine	µg/kg	1410	3990	388 - 4320	Acceptable	EPA 8270C





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EPA ID: CO00028
ERA Laboratory Code: A144801
Report Issued: 06/28/07
Study Dates: 04/23/07 - 06/07/07

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

6535	N-Nitrosodiphenylamine	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6545	N-Nitroso-di-n-propylamine	µg/kg	4330	7530	1660 - 8640	Acceptable	EPA 8270C
6590	Pentachlorobenzene	µg/kg		0.00		Not Reported	
6605	Pentachlorophenol	µg/kg	3660	5390	0.00 - 5590	Acceptable	EPA 8270C
6615	Phenanthrene	µg/kg	< 300	0.00		Acceptable	EPA 8270C
6625	Phenol	µg/kg	6770	10700	1180 - 12500	Acceptable	EPA 8270C
6665	Pyrene	µg/kg	< 300	0.00		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		8680	1070 - 10100	Not Reported	
5155	1,2,4-Trichlorobenzene	µg/kg	1520	2550	395 - 2980	Acceptable	EPA 8270C
6835	2,4,5-Trichlorophenol	µg/kg	5450	7420	1490 - 8620	Acceptable	EPA 8270C
6840	2,4,6-Trichlorophenol	µg/kg	3550	4670	1170 - 5220	Acceptable	EPA 8270C

Gasoline Range Organics (GRO) in Soil

9408	Gasoline Range Organics (GRO)	mg/kg	442	1130	9.22 - 1660	Acceptable	EPA 8015B
4375	Benzene in GRO	mg/kg		7.10	0.107 - 7.10	Not Reported	
4765	Ethylbenzene in GRO	mg/kg		31.3	8.21 - 36.0	Not Reported	
5140	Toluene in GRO	mg/kg		88.2	0.00 - 95.2	Not Reported	
5260	Xylenes, total in GRO	mg/kg		126	34.2 - 154	Not Reported	

Diesel Range Organics (DRO) in Soil

9369	Diesel Range Organics (DRO)	mg/kg	1460	2120	202 - 3150	Acceptable	EPA 8015B
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BTEX & MTBE in Soil

4375	Benzene	µg/kg	125	124	95.0 - 160	Acceptable	EPA 8021B
5000	tert-Butyl methyl ether (MTBE)	µg/kg	74.3	73.7	49.8 - 97.2	Acceptable	EPA 8021B
4765	Ethylbenzene	µg/kg	159	172	105 - 232	Acceptable	EPA 8021B
5140	Toluene	µg/kg	94.2	95.8	69.2 - 122	Acceptable	EPA 8021B
5260	Xylenes, total	µg/kg	251	255	165 - 330	Acceptable	EPA 8021B

