WESTON
MANAGERS DESIGNERS/CONSULTANTS
5 Underwood Court, Delran, New Jersey 08075-1229
856-461-4003 • 215-238-0338 • Fax 856-461-4916

SITE ASSESSMENT TECHNICAL ASSISTANCE

EPA CONTRACT 68-S5-3002

ORIGINAL

8 October 1999

Mr. Mike Towle (3HS31)
On-Scene Coordinator
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

TDD No. 9907-03
DCN E0000662

SDMS DocID 2241141

Subject: 12th Street Landfill Site - Data Quality Report

Dear Mr. Towle:

Enclosed for your review is the data quality report for the waste samples collected during 31 August – 1 September 1999 from the 12th Street Landfill Site. Please feel free to contact me at (215) 238-0338, Ext. 243, regarding any aspect of this report.

Very truly yours,

ROY F. WESTON, INC.

(b) (4)
[redacted]

Analytical Data Reviewer

cc: TDD File

d:\12th Street9909-L01

1.0 INTRODUCTION

This report provides a general review of the analytical data package submitted by Quanterra, Inc, in Pittsburgh, Pennsylvania for eight waste samples collected at the 12th Street Landfill Site during 31 August – 1 September 1999. The samples were received at Quanterra, Inc. on 3 September 1999. The analyses requested were target compound list (TCL) organics and target analyte list (TAL) metals and cyanide. The laboratory used all of Sample TS-DC-03 to re-extract for organic analysis, as a result there was insufficient sample to perform metals analysis or determine moisture content. The results for Sample TS-DC-03 are reported on an as is basis.

2.0 ANALYTICAL METHODOLOGY

The soil, sediment, grain and surface water samples were analyzed for TCL organics in accordance with the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) Statement of Work (SOW) OLM03.2 and the TAL metals and cyanide were analyzed in accordance with CLP SOW ILM04.0

3.0 DATA REVIEW COMMENTS

3.1 Chain-of-Custody

Signed chain-of-custody records were returned.

3.2 Volatile Organics (VOA)

- The holding times for the samples met quality control (QC) criteria.
- The gas chromatograph/mass spectrometer (GC/MS) tuning data met QC criteria.
- The internal standard recoveries for Sample TS-DC-03 and the re-analysis for this sample were all outside QC criteria. Qualify all positive VOAs for Sample TS-DC-03 as "J" or approximate and all non-detects as "UJ" or approximate quantitation limit.
- The initial calibration data met QC criteria. The percent difference (%D) for several continuing calibration compounds did not meet QC criteria. Since these compounds were not detected in the samples, data were not qualified.
- The method blanks contained acetone at 3 µg/kg and toluene at 2.2 µg/kg. The acetone concentration for Sample TS-DC-01 was less than five times the blank concentration. Qualify the acetone result for Sample TS-DC-01 as "B" or blank contamination.

ORIGINAL

- The surrogate spike recoveries for Sample TS-DC-03 did not meet QC criteria. The results for this sample were previously qualified and data were not further qualified. Data were not qualified due to matrix spike/matrix spike duplicate (MS/MSD) recoveries and relative percent difference (RPD) values outliers.

- Several compounds exceeded the calibration range for the original analysis. The laboratory coded these compounds as "E" and re-analyzed the samples at a greater dilution. Use the re-analysis results for all VOA compounds coded "E" by the laboratory.

Accept the VOA data as presented with the qualifiers above.

3.3 Semivolatile Organics (SVOA)

- The holding times for the samples met QC criteria, except for the re-analysis for Sample TS-AM-03. Since the original result was used, data were not qualified.

- The GC/MS tuning data and internal standard met QC criteria.

- The initial calibration and continuing calibration met QC criteria.

- The method blank was free of contamination.

- The surrogate spike recoveries for Sample TS-AM-03 were all below QC criteria and less than 10% recovery for the phenolic compounds for both the original and re-analysis results. Use the original results for Sample TS-AM-03 and qualify all phenolic compounds (phenols) as "R" or unreliable.

- The MS/MSD recoveries and RPD values met QC criteria.

- Several compounds exceeded the calibration range for the original analysis. The laboratory coded these compounds as "E" and re-analyzed the samples at a greater dilution. Use the re-analysis results for all SVOA compounds coded "E" by the laboratory.

Accept the SVOA data as presented with the above qualifiers.

3.4 Pesticide/Polychlorinated Biphenyls (Pest/PCBs)

- The holding times for the samples were met.

- The method blanks were free of contamination.

- The initial and continuing calibration data met QC criteria.

ORIGINAL

- The surrogate spike recoveries and RPD values met QC criteria.

- The MS/MSD recoveries for Lindane were below QC criteria, but above 10%. Lindane was not detected in the sample used for spiking and data were not further qualified.

- The second column confirmation results exceeded 25 %D for several compounds in several samples. The laboratory coded all pesticide/PCB results whose %D exceeded 25% with a "JP" or "P." Qualify all Pest/PCB results coded "JP" or "P" by the laboratory as "J" or approximate.

Accept all Pest/PCB data as presented with the exceptions above.

3.5 TAL Metals and Cyanide

- The holding times for the samples were met.

- The method blanks and/or continuing calibration blanks contained beryllium, potassium and thallium at various concentrations. Beryllium was detected in Sample TS-DC-01, potassium was detected in Samples TS-AM-03 and TS-DC-01 and thallium was detected in Samples TS-DC-02 and TS-FD-03 at concentrations less than five times the blank concentration. Qualify the beryllium result for Sample TS-DC-01, the potassium results for Samples TS-AM-03 and TS-DC-01 and the thallium results for Samples TS-DC-02 and TS-FD-03 as "B" or blank contamination.

- The initial and continuing calibration data met QC criteria.

- The inductively coupled plasma (ICP) interference checks, ICP serial dilutions, laboratory control sample recoveries and RPD values met QC criteria.

- The MS/MSD recoveries for antimony, barium, chromium, copper and manganese were below QC criteria. Qualify the barium, chromium, copper and manganese results for all the samples and the antimony for Samples TS-AM-02, TS-AM-03, TS-FD-03, TS-DC-02 and TS-DC-04 as "J" or approximate. Qualify the antimony results for Samples TS-DC-01 and TS-AM-01 as "UJ" or approximate quantitation limit.

- The contract required detection limit (CRDL) recoveries were above QC criteria for arsenic, copper, lead, selenium and zinc. The selenium results for Samples TS-AM-01 and TS-DC-01 were less than two times the CRDL; therefore, qualify the selenium results for Samples TS-AM-01 and TS-DC-01 as "J" or approximate. The remaining results were greater than two times the CRDL or were previously qualified and data were not further qualified.

Accept the metals and cyanide data as presented with the exception above.

ORIGINAL

4.0 CONCLUSION

This analytical data package was reviewed in accordance with the EPA *Quality Assurance/Quality Control Guidance for Removal Activities*, EPA/540/6-90/004, April 1990. Accept the data as presented with the following qualifiers:

- Qualify all positive VOAs for Sample TS-DC-03 as "J" or approximate and all non-detects as "UJ" or approximate quantitation limit.
- Qualify the acetone result for Sample TS-DC-01 as "B" or blank contamination.
- Use the re-analysis results for all VOA and SVOA compounds coded "E" by the laboratory.
- Use the original results for Sample TS-AM-03 and qualify all phenolic compounds (phenols) as "R" or unreliable.
- Qualify all Pest/PCB results coded "JP" or "P" by the laboratory as "J" or approximate.
- Qualify the beryllium result for Sample TS-DC-01, the potassium results for Samples TS-AM-03 and TS-DC-01 and the thallium results for Samples TS-DC-02 and TS-FD-03 as "B" or blank contamination.
- Qualify the barium, chromium, copper and manganese results for all the samples and the antimony for Samples TS-AM-02, TS-AM-03, TS-FD-03, TS-DC-02 and TS-DC-04 as "J" or approximate.
- Qualify the antimony results for Samples TS-DC-01 and TS-AM-01 as "UJ" or approximate quantitation limit.
- Qualify the selenium results for Samples TS-AM-01 and TS-DC-01 as "J" or approximate.

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

1 of 1

CHAIN OF CUSTODY RECORD

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 19107

PROJ. NO.: 5472
PROJECT NAME: 9909-L01
SAMPLERS: (Signature) (b) (4) [redacted]

STA. NO.	DATE (1999)	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOAs, BNA's, PCB's, pesticides, metals, ICP						REMARKS
													* Waste material
TS-AM-01	8/31	0840		✓	Ash material - 01	3	✓						
TS-AM-02	8/31	0845		✓	Ash material - 02	3	✓						
TS-FD-03	8/31	0000		✓	Blind Duplicate	3	✓						
TS-AM-03	8/31	1320		✓	Ash material - 03	2	✓						
TS-DC-01	9/1	0805		✓	Drum contents - 01	1	✓						
TS-DC-02	9/1	1350		✓	Drum contents - 02	1	✓						
TS-DC-03	9/1	1400		✓	Drum contents - 03	1	✓						
TS-DC-04	9/1	1425		✓	Drum contents - 04	1	✓						PID = 2000 ppm

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	9-1-99 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (b) (4) [redacted]	Date / Time: 9/3/99 0935	Remarks: Fed Ex # 8132 3850 4434	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3 07578

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
74873	Chloromethane	0.11	U	0.011	U	0.0023	J	0.58	U
74839	Bromomethane	0.11	U	0.011	U	0.001	U	0.58	U
75014	Vinyl chloride	0.11	U	0.011	U	0.001	U	0.58	U
75003	Chloroethane	0.11	U	0.011	U	0.001	U	0.58	U
75092	Methylene chloride	0.42		0.011	U	0.067		0.58	U
67641	Acetone	0.019	J	0.0086	J	0.032		0.58	U
75150	Carbon disulfide	1.2		0.022		0.001	U	0.58	U
75354	1,1-Dichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
75343	1,1-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
540590	1,2-Dichloroethene (total)	0.11	U	0.011	U	0.001	U	0.58	U
67663	Chloroform	0.11	U	0.0015	J	0.001	U	0.58	U
107062	1,2-Dichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
78933	2-Butanone (MEK)	0.11	U	0.0023	J	0.001	U	0.58	U
71556	1,1,1-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
56235	Carbon tetrachloride	0.11	U	0.011	U	0.001	U	0.58	U
75274	Bromodichloromethane	0.11	U	0.011	U	0.001	U	0.58	U
78875	1,2-Dichloropropane	0.11	U	0.011	U	0.001	U	0.58	U
542756	1,3-Dichloropropene	0.11	U	0.011	U	0.001	U	0.58	U
79016	Trichloroethene	0.11	U	0.011	U	0.001	U	0.58	U
124481	Dibromochloromethane	0.11	U	0.011	U	0.001	U	0.58	U
79005	1,1,2-Trichloroethane	0.11	U	0.011	U	0.001	U	0.58	U
71432	Benzene	0.069	J	0.011	U	0.001	U	0.58	U
75252	Bromoform	0.11	U	0.011	U	0.001	U	0.58	U
108101	4-Methyl-2-pentanone	0.11	U	0.011	U	0.001	U	0.58	U
591786	2-Hexanone	0.11	U	0.011	U	0.001	U	0.58	U
127184	Tetrachloroethene	0.11	U	0.0058	J	0.001	U	0.58	U
79345	1,1,2,2-Tetrachloroethane	0.11	U	0.011	U	0.001	U	0.58	U
108883	Toluene	730		21		0.065		1,200	
108907	Chlorobenzene	0.11	U	0.011	U	0.001	U	0.58	U
100414	Ethylbenzene	0.046	J	0.0034	J	0.001	U	0.58	U
100425	Styrene	0.11	U	0.011	U	0.001	U	0.58	U
1330207	Xylene (total)	0.067	J	0.017		0.0046	J	0.58	U

U - Not Detected
J - Approximate

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP (continued)

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
51285	2,4-Dinitrophenol	180	U	23	U	1,300	U	49	U
100027	4-Nitrophenol	180	U	23	U	1,300	U	49	U
132649	Dibenzofuran	470		9.1	U	530	U	19	U
121142	2,4-Dinitrotoluene	70	U	9.1	U	530	U	19	U
84662	Diethylphthalate	70	U	9.1	U	530	U	19	U
7005723	4-Chlorophenyl-phenylether	70	U	9.1	U	530	U	19	U
86737	Fluorene	90		9.1	J	530	U	19	U
100016	4-Nitroaniline	180	U	23	U	1,300	U	49	U
534521	4,6-Dinitro-2-methylphenol	180	U	23	U	1,300	U	49	U
86306	N-Nitrosodiphenylamine	70	U	9.1	U	530	U	19	U
101553	4-Bromophenyl-phenylether	70	U	9.1	U	530	U	19	U
118741	Hexachlorobenzene	70	U	9.1	U	530	U	19	U
87865	Pentachlorophenol	180	U	23	U	1,300	U	49	U
85018	Phenanthrene	70	U	9.1	U	530	U	19	U
120127	Anthracene	70	U	9.1	U	530	U	19	U
86748	Carbazole	70	U	9.1	U	530	U	19	U
84742	Di-n-butylphthalate	70	U	9.1	U	530	U	19	U
206440	Fluoranthene	70	U	9.1	U	530	U	19	U
129000	Pyrene	70	U	9.1	U	530	U	19	U
85687	Butylbenzylphthalate	70	U	9.1	U	530	U	19	U
91941	3,3'-Dichlorobenzidine	70	U	9.1	U	530	U	19	U
56553	Benzo(a)anthracene	70	U	9.1	U	530	U	19	U
218019	Chrysene	70	U	9.1	U	530	U	19	U
117817	bis(2-Ethylhexyl)phthalate	70	U	68		530	U	20	
117840	Di-n-octylphthalate	70	U	9.1	U	530	U	19	U
205992	Benzo(b)fluoranthene	70	U	9.1	U	530	U	19	U
207089	Benzo(k)fluoranthene	70	U	9.1	U	530	U	19	U
50328	Benzo(a)pyrene	70	U	9.1	U	530	U	19	U
193395	Indeno(1,2,3-cd)pyrene	70	U	9.1	U	530	U	19	U
53703	Dibenz(a,h)anthracene	70	U	9.1	U	530	U	19	U
191242	Benzo(g,h,i)perylene	70	U	9.1	U	530	U	19	U

U - Not Detected

J - Approximate

ORIGINAL

12 th Street Landfill

Industrial Soil - U.S. EPA CLP

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
108952	Phenol	70	U	9.1	U	530	U	210	
111444	bis(2-Chloroethyl) ether	70	U	9.1	U	530	U	19	U
95578	2-Chlorophenol	70	U	9.1	U	530	U	19	U
541731	1,3-Dichlorobenzene	70	U	9.1	U	530	U	19	U
106467	1,4-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95501	1,2-Dichlorobenzene	70	U	9.1	U	530	U	19	U
95487	2-Methylphenol	70	U	9.1	U	530	U	19	U
108601	2,2'-oxybis(1-Chloropropane)	70	U	9.1	U	530	U	19	U
106445	4-Methylphenol	70	U	9.1	U	530	U	19	U
621647	N-Nitroso-di-n-propylamine	70	U	9.1	U	530	U	19	U
67721	Hexachloroethane	70	U	9.1	U	530	U	19	U
98953	Nitrobenzene	70	U	9.1	U	530	U	19	U
78591	Isophorone	70	U	9.1	U	530	U	19	U
88755	2-Nitrophenol	70	U	9.1	U	530	U	19	U
105679	2,4-Dimethylphenol	70	U	9.1	U	530	U	19	U
111911	bis(2-Chloroethoxy) methane	70	U	9.1	U	530	U	19	U
120832	2,4-Dichlorophenol	70	U	9.1	U	530	U	19	U
120821	1,2,4-Trichlorobenzene	70	U	9.1	U	530	U	19	U
91203	Naphthalene	70	U	1.6	J	530	U	19	U
106478	4-Chloroaniline	70	U	9.1	U	530	U	19	U
87683	Hexachlorobutadiene	70	U	9.1	U	530	U	19	U
59507	4-Chloro-3-methylphenol	70	U	9.1	U	530	U	19	U
91576	2-Methylnaphthalene	710		58		530	U	19	U
77474	Hexachlorocyclopentadiene	70	U	9.1	U	530	U	19	U
88062	2,4,6-Trichlorophenol	70	U	9.1	U	530	U	19	U
95954	2,4,5-Trichlorophenol	180	U	23	U	1,300	U	49	U
91587	2-Chloronapthalene	70	U	9.1	U	530	U	19	U
88744	2-Nitroaniline	180	U	23	U	1,300	U	49	U
131113	Dimethylphthalate	70	U	9.1	U	530	U	19	U
208968	Acenaphthylene	70	U	9.1	U	530	U	19	U
606202	2,6-Dinitrotoluene	70	U	9.1	U	530	U	19	U
99092	3-Nitroaniline	180	U	23	U	1,300	U	49	U
83329	Acenaphthene	450		9.1	U	75	J	19	U

U - Not Detected

J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	Q
319846	alpha-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319857	beta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
319868	delta-HCH	0.18	U	0.0094	U	0.17	U	0.02	U
58899	gamma-HCH (Lindane)	0.18	U	0.0094	U	0.17	U	0.02	U
76448	Heptachlor	0.18	U	0.0094	U	0.17	U	0.02	U
309002	Aldrin	0.18	U	0.0094	U	0.17	U	0.02	U
1024573	Heptachlor epoxide	0.18	U	0.0094	U	0.17	U	0.015	J
959988	Endosulfan I	0.18	U	0.0094	U	0.17	U	0.02	U
60571	Dieldrin	0.35	U	0.018	U	0.33	U	0.039	U
72559	4,4'-DDE	0.35	U	0.013	J	0.33	U	0.039	U
72208	Endrin	0.35	U	0.02		0.33	U	0.039	U
33213659	Endosulfan II	0.35	U	0.018	U	0.33	U	0.039	U
72548	4,4'-DDD	0.35	U	0.018	U	0.33	U	0.039	U
1031078	Endosulfan sulfate	0.35	U	0.018	U	0.33	U	0.039	U
50293	4,4'-DDT	0.35	U	0.014	J	0.33	U	0.039	U
72435	Methoxychlor	1.8	U	0.094	U	1.7	U	0.2	U
53494705	Endrin ketone	0.18	U	0.0094	U	0.17	U	0.02	U
7421363	Endrin aldehyde	0.35	U	0.018	U	0.33	U	0.026	J
5103719	alpha-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
5103742	gamma-Chlordane	0.18	U	0.0094	U	0.17	U	0.02	U
8001352	Toxaphene	18	U	0.94	U	17	U	2	U
12674112	Aroclor-1016	3.5	U	0.18	U	3.3	U	0.39	U
11104282	Aroclor-1221	7.1	U	0.37	U	6.7	U	0.78	U
11141165	Aroclor-1232	3.5	U	0.18	U	3.3	U	0.39	U
53469219	Aroclor-1242	3.5	U	0.18	U	3.3	U	0.39	U
12672296	Aroclor-1248	3.5	U	0.18	U	3.3	U	0.39	U
11097691	Aroclor-1254	3.5	U	0.18	U	3.3	U	0.39	U
11096825	Aroclor-1260	3.5	U	0.18	U	3.3	U	0.39	U

U - Not detected.

J - Approximate

ORIGINAL

12th Street Landfill

Industrial Soil - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-DC-01	Q	TS-DC-02	Q	TS-DC-03	Q	TS-DC-04	
7429905	Aluminum	1,150		17,300				6,450	
7440360	Antimony	0.36	U	1.7				1.2	
7440382	Arsenic	5.1		15				19.7	
7440393	Barium	17.3		218				194	
7440417	Beryllium	0.051		0.3				0.3	
7440439	Cadmium	2		3.8				21.2	
7440702	Calcium	564		8,890				4,000	
7440473	Chromium	7.9		146				38.9	
7440484	Cobalt	3.5		8.9				14.8	
7440508	Copper	16.5		192				171	
7439896	Iron	10,300		17,600				48,800	
7439921	Lead	207		10,000				3,970	
7439954	Magnesium	2,010		2,100				1,290	
7439965	Manganese	19.6		167				519	
7439976	Mercury	0		0.23				0.18	
7440020	Nickel	0.14		25				36.9	
7440097	Potassium	240		552				557	
7782492	Selenium	0.84		2.9				1.2	
7440224	Silver	0.47	U	1.1				0.51	U
7440235	Sodium	779		323				165	
7440280	Thallium	0.79	U	4.8				0.87	U
7440622	Vanadium	9		24.5				23.1	
7440666	Zinc	13,600		4,110				1,490	
74908	Cyanide	2.7	U	3.3	U	2.5	U	2.9	U

U - Not detected

Note: There was insufficient sample to analyze sample TS-DC-03 for metals.

Shaded areas exceed EPA Region III Risk Based Concentrations (RBCs)

ORIGINAL

12 th Street Landfill

Residential Sediment - U.S. EPA CLP

Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
74873	Chloromethane	0.013	U	0.013	U	0.013	U	0.013	U
74839	Bromomethane	0.013	U	0.013	U	0.013	U	0.013	U
75014	Vinyl chloride	0.013	U	0.013	U	0.013	U	0.013	U
75003	Chloroethane	0.013	U	0.013	U	0.013	U	0.013	U
75092	Methylene chloride	0.013	U	0.013	U	0.013	U	0.013	U
67641	Acetone	0.013	U	0.0031	J	0.02		0.0022	J
75150	Carbon disulfide	0.013	U	0.013	U	0.0023	J	0.013	U
75354	1,1-Dichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
75343	1,1-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
540590	1,2-Dichloroethene (total)	0.013	U	0.013	U	0.013	U	0.013	U
67663	Chloroform	0.013	U	0.013	U	0.013	U	0.013	U
107062	1,2-Dichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
78933	2-Butanone (MEK)	0.013	U	0.0021	J	0.0053	J	0.0022	J
71556	1,1,1-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
56235	Carbon tetrachloride	0.013	U	0.013	U	0.013	U	0.013	U
75274	Bromodichloromethane	0.013	U	0.013	U	0.013	U	0.013	U
78875	1,2-Dichloropropane	0.013	U	0.013	U	0.013	U	0.013	U
542756	1,3-Dichloropropene	0.013	U	0.013	U	0.013	U	0.013	U
79016	Trichloroethene	0.013	U	0.013	U	0.013	U	0.013	U
124481	Dibromochloromethane	0.013	U	0.013	U	0.013	U	0.013	U
79005	1,1,2-Trichloroethane	0.013	U	0.013	U	0.013	U	0.013	U
71432	Benzene	0.013	U	0.013	U	0.013	U	0.013	U
75252	Bromoform	0.013	U	0.013	U	0.013	U	0.013	U
108101	4-Methyl-2-pentanone	0.013	U	0.013	U	0.013	U	0.013	U
591786	2-Hexanone	0.013	U	0.013	U	0.013	U	0.013	U
127184	Tetrachloroethene	0.013	U	0.013	U	0.0019	J	0.013	U
79345	1,1,2,2-Tetrachloroethane	0.013	U	0.013	U	0.013	U	0.013	U
108883	Toluene	0.013	U	0.013	U	0.013	U	0.013	U
108907	Chlorobenzene	0.013	U	0.013	U	0.013	U	0.013	U
100414	Ethylbenzene	0.013	U	0.013	U	0.013	U	0.013	U
100425	Styrene	0.013	U	0.013	U	0.013	U	0.013	U
1330207	Xylene (total)	0.013	U	0.013	U	0.002	J	0.013	U

U - Not Detected

J - Approximate

ORIGINAL

12 th Street Landfill

Residential Sediment - U.S. EPA CLP (continued)

Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
51285	2,4-Dinitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
100027	4-Nitrophenol	1.1	U	1.1	U	1.1	U	1.1	U
132649	Dibenzofuran	0.43	U	0.44	U	0.43	U	0.44	U
121142	2,4-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
84662	Diethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
7005723	4-Chlorophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
86737	Fluorene	0.43	U	0.44	U	0.43	U	0.44	U
100016	4-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
534521	4,6-Dinitro-2-methylphenol	1.1	U	1.1	U	1.1	U	1.1	U
86306	N-Nitrosodiphenylamine	0.43	U	0.44	U	0.43	U	0.44	U
101553	4-Bromophenyl-phenylether	0.43	U	0.44	U	0.43	U	0.44	U
118741	Hexachlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
87865	Pentachlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
85018	Phenanthrene	0.43	U	0.44	U	0.43	U	0.044	J
120127	Anthracene	0.43	U	0.44	U	0.43	U	0.44	U
86748	Carbazole	0.43	U	0.44	U	0.43	U	0.44	U
84742	Di-n-butylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
206440	Fluoranthene	0.43	U	0.44	U	0.43	U	0.081	J
129000	Pyrene	0.43	U	0.44	U	0.43	U	0.062	J
85687	Butylbenzylphthalate	0.43	U	0.44	U	0.43	U	0.072	J
91941	3,3'-Dichlorobenzidine	0.43	U	0.44	U	0.43	U	0.44	U
56553	Benzo(a)anthracene	0.43	U	0.44	U	0.43	U	0.043	
218019	Chrysene	0.065	J	0.44	U	0.43	U	0.055	J
117817	bis(2-Ethylhexyl)phthalate	0.085	J	0.13	J	0.079	J	0.81	
117840	Di-n-octylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
205992	Benzo(b)fluoranthene	0.43	U	0.44	U	0.43	U	0.045	J
207089	Benzo(k)fluoranthene	0.43	U	0.44	U	0.43	U	0.44	U
50328	Benzo(a)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
193395	Indeno(1,2,3-cd)pyrene	0.43	U	0.44	U	0.43	U	0.44	U
53703	Dibenz(a,h)anthracene	0.43	U	0.44	U	0.43	U	0.44	U
191242	Benzo(g,h,i)perylene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected

J - Approximate

ORIGINAL

12 th Street Landfill

Resiedntial Sediment - U.S. EPA CLP
Semi-Volatile Organic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
108952	Phenol	0.43	U	0.44	U	0.43	U	0.44	U
111444	bis(2-Chloroethyl) ether	0.43	U	0.44	U	0.43	U	0.44	U
95578	2-Chlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
541731	1,3-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
106467	1,4-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95501	1,2-Dichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
95487	2-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
108601	2,2'-oxybis(1-Chloropropane)	0.43	U	0.44	U	0.43	U	0.44	U
106445	4-Methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
621647	N-Nitroso-di-n-propylamine	0.43	U	0.44	U	0.43	U	0.44	U
67721	Hexachloroethane	0.43	U	0.44	U	0.43	U	0.44	U
98953	Nitrobenzene	0.43	U	0.44	U	0.43	U	0.44	U
78591	Isophorone	0.43	U	0.44	U	0.43	U	0.41	J
88755	2-Nitrophenol	0.43	U	0.44	U	0.43	U	0.44	U
105679	2,4-Dimethylphenol	0.43	U	0.44	U	0.43	U	0.44	U
111911	bis(2-Chloroethoxy) methane	0.43	U	0.44	U	0.43	U	0.44	U
120832	2,4-Dichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
120821	1,2,4-Trichlorobenzene	0.43	U	0.44	U	0.43	U	0.44	U
91203	Naphthalene	0.43	U	0.44	U	0.43	U	0.44	U
106478	4-Chloroaniline	0.43	U	0.44	U	0.43	U	0.44	U
87683	Hexachlorobutadiene	0.43	U	0.44	U	0.43	U	0.44	U
59507	4-Chloro-3-methylphenol	0.43	U	0.44	U	0.43	U	0.44	U
91576	2-Methylnaphthalene	0.43	U	0.44	U	0.43	U	0.44	U
77474	Hexachlorocyclopentadiene	0.43	U	0.44	U	0.43	U	0.44	U
88062	2,4,6-Trichlorophenol	0.43	U	0.44	U	0.43	U	0.44	U
95954	2;4,5-Trichlorophenol	1.1	U	1.1	U	1.1	U	1.1	U
91587	2-Chloronapthalene	0.43	U	0.44	U	0.43	U	0.44	U
88744	2-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
131113	Dimethylphthalate	0.43	U	0.44	U	0.43	U	0.44	U
208968	Acenaphthylene	0.43	U	0.44	U	0.43	U	0.44	U
606202	2,6-Dinitrotoluene	0.43	U	0.44	U	0.43	U	0.44	U
99092	3-Nitroaniline	1.1	U	1.1	U	1.1	U	1.1	U
83329	Acenaphthene	0.43	U	0.44	U	0.43	U	0.44	U

U - Not Detected
J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Pesticide/Polychlorinated Biphenyl Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
319846	alpha-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319857	beta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
319868	delta-HCH	0.0032	U	0.0023	U	0.0022	U	0.0023	U
58899	gamma-HCH (Lindane)	0.0032	U	0.0023	U	0.0022	U	0.0023	U
76448	Heptachlor	0.0022	U	0.0023	U	0.0022	U	0.0023	U
309002	Aldrin	0.0022	U	0.0023	U	0.0022	U	0.0023	U
1024573	Heptachlor epoxide	0.0022	U	0.0023	U	0.0022	U	0.0023	U
959988	Endosulfan I	0.0022	U	0.0023	U	0.0022	U	0.0023	U
60571	Dieldrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72559	4,4'-DDE	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72208	Endrin	0.0043	U	0.0044	U	0.0043	U	0.0044	U
33213659	Endosulfan II	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72548	4,4'-DDD	0.0043	U	0.0044	U	0.0043	U	0.0044	U
1031078	Endosulfan sulfate	0.0043	U	0.0044	U	0.0043	U	0.0044	U
50293	4,4'-DDT	0.0043	U	0.0044	U	0.0043	U	0.0044	U
72435	Methoxychlor	0.022	U	0.023	U	0.022	U	0.023	U
53494705	Endrin ketone	0.0022	U	0.0023	U	0.0022	U	0.0023	U
7421363	Endrin aldehyde	0.0043	U	0.0044	U	0.0043	U	0.0044	U
5103719	alpha-Chlordane	0.0022	U	0.0023	U	0.0011	J	0.0023	U
5103742	gamma-Chlordane	0.0022	U	0.0023	U	0.0022	U	0.0023	U
8001352	Toxaphene	0.22	U	0.23	U	0.22	U	0.23	U
12674112	Aroclor-1016	0.043	U	0.044	U	0.043	U	0.044	U
11104282	Aroclor-1221	0.088	U	0.09	U	0.088	U	0.089	U
11141165	Aroclor-1232	0.043	U	0.044	U	0.043	U	0.044	U
53469219	Aroclor-1242	0.043	U	0.044	U	0.043	U	0.044	U
12672296	Aroclor-1248	0.043	U	0.044	U	0.043	U	0.044	U
11097691	Aroclor-1254	0.043	U	0.044	U	0.043	U	0.044	U
11096825	Aroclor-1260	0.043	U	0.044	U	0.043	U	0.044	U

U - Not detected.
J - Approximate

ORIGINAL

12th Street Landfill

Residential Sediment - U.S. EPA CLP

Inorganic Analysis Data Sheet

All units in mg/kg

CAS#	Compound	TS-AM-01	Q	TS-AM-02	Q	TS-AM-03	Q	TS-FD-03	Q
7429905	Aluminum	46,500		39,000		4,630		35,400	
7440360	Antimony	0.45	U	1		1.3		0.59	
7440382	Arsenic	8.9		26		13.1		26.4	
7440393	Barium	1,610		6,270		96.6		3,510	
7440417	Beryllium	0.53		0.79		0.78		0.82	
7440439	Cadmium	7.5		2.9		0.84	U	2.7	
7440702	Calcium	38,000		89,500		380,000		68,600	
7440473	Chromium	56.1		72.1		27.7		79.3	
7440484	Cobalt	7.7		14.6		9		14	
7440508	Copper	233		71.9		544		70.9	
7439896	Iron	13,000		17,500		13,200		18,800	
7439921	Lead	593		383		2,570		911	
7439954	Magnesium	5,620		4,240		790		3,890	
7439965	Manganese	143		431		89.7		349	
7439976	Mercury	0.058	U	0.051		0.058	U	0.065	
7440020	Nickel	35		22.2		11.4		23	
7440097	Potassium	957		2,140		182		2,130	
7782492	Selenium	0.74		0.65	U	3.9		0.64	U
7440224	Silver	0.58	U	0.59	U	0.58	U	0.58	U
7440235	Sodium	1,320		984		123		967	
7440280	Thallium	0.97	U	0.99	U	0.97	U	1.2	
7440622	Vanadium	65.6		67.3		9.7		64.2	
7440666	Zinc	13,400		10,500		776		8,850	
74908	Cyanide	3.3	U	3.4	U	3.3	U	3.3	U

ORIGINAL

Quanterra

Quanterra
450 William Pitt Way
Pittsburgh, Pennsylvania 15238-1330

412 820-8380 Telephone
412 820-2080 Fax

ANALYTICAL REPORT

PROJECT NO. ROY F. WESTON

Roy F. Weston / 9909-L01

Lot #: C9I030140

Accounts Payable

Roy F. Weston, Inc.

QUANTERRA INCORPORATED

(b) (4)

[redacted]

Project Manager

September 27, 1999

ORIGINAL

CASE NARRATIVE

ROY F. WESTON

Lot # C9I030140 9909-L01

Sample Receiving

Quanterra-Pittsburgh, Pa received samples on September 3, 1999 within proper temperature. Samples TS-AM-01 and TS-AM-03 were received cracked. The samples were transferred to new containers.

Note:
Except where noted, no problems were observed during the analyses.

Volatiles:
Due to the concentration of target compounds detected, several samples were analyzed diluted.

TS-DC-03 has surrogates recoveries and internal standard areas outside control limits. The sample was reanalyzed with similar recoveries therefore confirming a matrix interference. Both sets of results are reported.

TS-DC-02 matrix spike and matrix spike duplicate recovery for toluene was outside control limits. However the relative percent difference was within control limits. All recoveries in the laboratory control sample were within control limits.

Semivolatiles:

Several samples were analyzed diluted due to matrix interference. Due to the dilutions, surrogate recoveries are diluted out.

Sample TS-AM-03 had surrogate recoveries outside control limits. The sample was reextracted seven days past the holding time. Surrogate recoveries were outside control limits again confirming matrix interference. Both sets of results are reported.

ORIGINAL

CASE NARRATIVE

Pesticide/PCB:

Several samples were analyzed diluted due to matrix interference. Due to the dilutions, surrogate recoveries are diluted out.

TS-AM-01 matrix spike and matrix spike duplicate recovery for gamma-BHC was outside control limits. However the relative percent difference was within control limits. All recoveries in the laboratory control sample were within control limits.

Metals:

Sample TS-DC-03 was not analyzed due to insufficient sample for the analysis.

The matrix spike duplicate (MS) was outside the 75-125% control limits for antimony, barium, chromium, copper and manganese. All associated samples are flagged with a "N" qualifier.

The duplicate relative percent difference (RPD) was outside the control limits for iron. All associated samples are flagged with a "R" qualifier.

Samples TS-AM-03 was over the instrument's linear range for calcium and required dilution.

Samples TS-AM-03, TS-DC-01 and TS-DX-04 were over the instrument's linear range for lead and required dilution.

Wet Chemistry:

Sample TS-DC-03 was not analyzed for percent moisture due to insufficient sample for the analysis.

ORIGINAL

METHODS SUMMARY

C9I030140

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Inductively Coupled Plasma	ICLP ILM04.0	ICLP ILM04.0
Mercury (Cold Vapor Technique)	ICLP ILM04.0	ICLP ILM04.0
Organochlorine Pesticides/PCBs	OCLP OLM03.1	
Percent Moisture Determination Procedure	ICLP ILM04.0	ICLP ILM04.0
Semivolatile Organics	OCLP OLM03.1	
Total Cyanide	ICLP ILM04.0	
Volatile Organics	OCLP OLM03.1	
Volatile Organics	OCLP OLM03.1	SW846 5030

References:

ICLP USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

ORIGINAL

SAMPLE SUMMARY

C9I030140

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D23WA	001	TS-AM-01	08/31/99	20:40
D23WH	002	TS-AM-02	08/31/99	20:45
D23WN	003	TS-FD-03	08/31/99	
D23WT	004	TS-AM-03	08/31/99	13:20
D23X1	005	TS-DC-01	09/01/99	08:05
D23X5	006	TS-DC-02	09/01/99	13:50
D23XA	007	TS-DC-03	09/01/99	14:00
D23XD	008	TS-DC-04	09/01/99	14:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

1 of 1

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 19107

CHAIN OF CUSTODY RECORD

PROJ. NO.: 5472
PROJECT NAME: 9909-L01
SAMPLERS: (b) (4) [redacted]

STA. NO.	(1999) DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA, BNA's, PCB's, pesticides, metals, CN						REMARKS * Waste material
TS-AM-01	8/31	0840		✓	Ash material-01	3	✓						
TS-AM-02	8/31	0845		✓	Ash material-02	3	✓						
TS-FD-03	8/31	0000		✓	Blind Duplicate	3	✓						
TS-AM-03	8/31	1320		✓	Ash material-03	2	✓						
TS-DC-01	9/1	0805		✓	Drum contents-01	1	✓						
TS-DC-02	9/1	1350		✓	Drum contents-02	1	✓						
TS-DC-03	9/1	1400		✓	Drum contents-03	1	✓						
TS-DC-04	9/1	1425		✓	Drum contents-04	1	✓						PID = 2000 ppm

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	9-2-99 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	(b) (4) [redacted]	Date / Time 9/3/99 0935	Remarks Fed Ex # 8132 3850 4434	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3 07578

ORIGINAL

Quanterra Pittsburgh Laboratory

ORIGINAL

Cooler Receipt Form

Quanterra Environmental Services Pittsburgh

Client: R. F. Weston Project: _____ Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 9/3/99

Coolers Opened and Unpacked on: 9/3/99 By: PRD (Signature)

Quanterra Lot Number: C9I030140

		Yes	No
1.	Were custody seals on the outside of the cooler?	✓	
	If YES, how many and where? Quantity 2 Location 1 front, 1 back		
	Were signatures and date correct?	✓	
2.	Were custody papers included inside the cooler?	✓	
3.	Were custody papers properly filled out (ink, signed, match labels)?	✓	
4.	Did you sign the custody papers in the appropriate place?	✓	
5.	Was shippers packing slip attached to this form?	✓	
6.	Were packing materials used?	✓	
	If YES, what type? Vermiculite		
7.	Were the samples chilled? (Record temperatures on reverse side.)	✓	
8.	Were the samples appropriately preserved?	N/A	
9.	Were all bottles sealed in separate plastic bags?	✓	
10.	Did all bottles arrive in good condition (unbroken)?	✓	✓
11.	Were all bottle labels complete (sample ID, preservatives, etc.)?	✓	
12.	Did all bottle labels and/or tags agree with custody papers?	✓	
13.	Were correct bottles used for tests indicated?	✓	
14.	Were all VOA vials checked for the presence of air bubbles?	N/A	
15.	Was a sufficient amount of sample sent in each bottle?	✓	

16. Samples received by: (FEDEX) UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

Quanterra PT/Mar-98/96-005/COOL.DOC

ORIGINAL
ORIGINAL

Cooler Receipt Form

Quanterra Environmental Services Pittsburgh

P: Preserved

UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hrdnss PH<2			

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

Cooler Number	Temperature
	4°

Bottle Type	Lot Number*
4oz	*
8oz	*

* Please use an asterisk if bottle lot number was covered by the label.

Quanterra PT/Mar-98/96-005/COOL.DOC

FedEx USA Airbill FedEx Tracking Number 8132 3850 4434

[redacted] 0215

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records

Date 9-2-99 FedEx Tracking Number 813238504434

Sender's Name (b) (4) [redacted] Phone 609 461-4003

Company ROY F WESTON INC

Address 5 UNDERWOOD CT

Dept./Floor/Suite/Room

City DELRAN State NJ ZIP 08075

2 Your Internal Billing Reference 1055 11078 233 0035 472

(b) (4) [redacted]

mpany Quanterra

Address 450 Wm Pitt Way

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City Pittsburgh State PA ZIP 15208

8132 3850 4434

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge. One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation.

5 Packaging * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [x] Yes — Shipper's Declaration not required
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [x] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

[redacted]

Total Packages	Total Weight		Total Charges
1	36	[redacted]	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800-463-3339)

Visit our Web site at www.fedex.com

359

ORIGINAL

ORIGINAL

DATA SUMMARY PACKAGE

ORIGINAL

GC/MS VOLATILES

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WA104 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:24

QC Batch: 9246421

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	13	U
71-43-2	Benzene	13	U
75-27-4	Bromodichloromethane	13	U
75-25-2	Bromoform	13	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone	13	U
75-15-0	Carbon disulfide	13	U
56-23-5	Carbon tetrachloride	13	U
108-90-7	Chlorobenzene	13	U
124-48-1	Dibromochloromethane	13	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	13	U
74-87-3	Chloromethane	13	U
75-34-3	1,1-Dichloroethane	13	U
107-06-2	1,2-Dichloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
100-41-4	Ethylbenzene	13	U
591-78-6	2-Hexanone	13	U
75-09-2	Methylene chloride	13	U
108-10-1	4-Methyl-2-pentanone	13	U
100-42-5	Styrene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	13	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23WA104

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:24

QC Batch: 9246421

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
79-01-6	Trichloroethene	13	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylenes (total)	13	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D23WA104
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/03/99
Date Analyzed: 09/03/99

QC Batch: 9246421

Client Sample Id: TS-AM-01

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	1.6968	7.0	J
	Unknown	1.8064	7.3	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WA105 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:24

QC Batch: 9246421

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	83.0	
108-90-7	Chlorobenzene	86.9	
75-35-4	1,1-Dichloroethene	93.4	
108-88-3	Toluene	86.6	
79-01-6	Trichloroethene	73.0	

FORM I

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Date Received: 09/03/99
Work Order: D23WA106
Date Extracted:09/03/99
Dilution factor: 1
Date Analyzed: 09/03/99
Moisture %:24
QC Batch: 9246421

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	75.0	
108-90-7	Chlorobenzene	74.4	
75-35-4	1,1-Dichloroethene	84.8	
108-88-3	Toluene	77.5	
79-01-6	Trichloroethene	63.7	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D23WH102
Dilution factor: 1
Moisture %:26

Date Received: 09/03/99
Date Extracted:09/03/99
Date Analyzed: 09/03/99

QC Batch: 9246421

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**3.1**	**J**
71-43-2	Benzene	13	U
75-27-4	Bromodichloromethane	13	U
75-25-2	Bromoform	13	U
74-83-9	Bromomethane	13	U
78-93-3	**2-Butanone**	**2.1**	**J**
75-15-0	Carbon disulfide	13	U
56-23-5	Carbon tetrachloride	13	U
108-90-7	Chlorobenzene	13	U
124-48-1	Dibromochloromethane	13	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	13	U
74-87-3	Chloromethane	13	U
75-34-3	1,1-Dichloroethane	13	U
107-06-2	1,2-Dichloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
100-41-4	Ethylbenzene	13	U
591-78-6	2-Hexanone	13	U
75-09-2	Methylene chloride	13	U
108-10-1	4-Methyl-2-pentanone	13	U
100-42-5	Styrene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	13	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23WH102

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:26

QC Batch: 9246421

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
79-01-6	Trichloroethene	13	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylenes (total)	13	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 002
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WH102 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:26

QC Batch: 9246421

Client Sample Id: TS-AM-02

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 003
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WN102 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:25

QC Batch: 9246421

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**2.2**	**J**
71-43-2	Benzene	13	U
75-27-4	Bromodichloromethane	13	U
75-25-2	Bromoform	13	U
74-83-9	Bromomethane	13	U
78-93-3	**2-Butanone**	**2.2**	**J**
75-15-0	Carbon disulfide	13	U
56-23-5	Carbon tetrachloride	13	U
108-90-7	Chlorobenzene	13	U
124-48-1	Dibromochloromethane	13	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	13	U
74-87-3	Chloromethane	13	U
75-34-3	1,1-Dichloroethane	13	U
107-06-2	1,2-Dichloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
100-41-4	Ethylbenzene	13	U
591-78-6	2-Hexanone	13	U
75-09-2	Methylene chloride	13	U
108-10-1	4-Methyl-2-pentanone	13	U
100-42-5	Styrene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	13	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23WN102

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:25

QC Batch: 9246421

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
79-01-6	Trichloroethene	13	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Xylenes (total)	13	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 003
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Date Received: 09/03/99
Work Order: D23WN102
Date Extracted:09/03/99
Dilution factor: 1
Date Analyzed: 09/03/99
Moisture %:25

QC Batch: 9246421

Client Sample Id: TS-FD-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 004
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WT102 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:24

QC Batch: 9246421

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**20**	
71-43-2	Benzene	13	U
75-27-4	Bromodichloromethane	13	U
75-25-2	Bromoform	13	U
74-83-9	Bromomethane	13	U
78-93-3	**2-Butanone**	**5.3**	**J**
75-15-0	**Carbon disulfide**	**2.3**	**J**
56-23-5	Carbon tetrachloride	13	U
108-90-7	Chlorobenzene	13	U
124-48-1	Dibromochloromethane	13	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	13	U
74-87-3	Chloromethane	13	U
75-34-3	1,1-Dichloroethane	13	U
107-06-2	1,2-Dichloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
100-41-4	Ethylbenzene	13	U
591-78-6	2-Hexanone	13	U
75-09-2	Methylene chloride	13	U
108-10-1	4-Methyl-2-pentanone	13	U
100-42-5	Styrene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
127-18-4	**Tetrachloroethene**	**1.9**	**J**
108-88-3	Toluene	13	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D23WT102
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/03/99
Date Analyzed: 09/03/99

QC Batch: 9246421

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
79-01-6	Trichloroethene	13	U
75-01-4	Vinyl chloride	13	U
1330-20-7	**Xylenes (total)**	**2.0**	**J**

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 004
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23WT102 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:24

QC Batch: 9246421

Client Sample Id: TS-AM-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	1.9944	43	J
627-51-0	Divinyl sulfide	6.6909	15	NJ

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I030140 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 0.5 / g
Work Order: D23X1102
Dilution factor: 10
Moisture %: 5.7

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/08/99

QC Batch: 9250212

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**19**	**J B**
71-43-2	**Benzene**	**69**	**J**
75-27-4	Bromodichloromethane	110	U
75-25-2	Bromoform	110	U
74-83-9	Bromomethane	110	U
78-93-3	2-Butanone	110	U
75-15-0	**Carbon disulfide**	**1200**	
56-23-5	Carbon tetrachloride	110	U
108-90-7	Chlorobenzene	110	U
124-48-1	Dibromochloromethane	110	U
75-00-3	Chloroethane	110	U
67-66-3	Chloroform	110	U
74-87-3	Chloromethane	110	U
75-34-3	1,1-Dichloroethane	110	U
107-06-2	1,2-Dichloroethane	110	U
75-35-4	1,1-Dichloroethene	110	U
540-59-0	1,2-Dichloroethene (total)	110	U
78-87-5	1,2-Dichloropropane	110	U
10061-01-5	cis-1,3-Dichloropropene	110	U
10061-02-6	trans-1,3-Dichloropropene	110	U
100-41-4	**Ethylbenzene**	**46**	**J**
591-78-6	2-Hexanone	110	U
75-09-2	**Methylene chloride**	**420**	
108-10-1	4-Methyl-2-pentanone	110	U
100-42-5	Styrene	110	U
79-34-5	1,1,2,2-Tetrachloroethane	110	U
127-18-4	Tetrachloroethene	110	U
108-88-3	**Toluene**	**14000**	**BE**

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 0.5 / g
Work Order: D23X1102
Dilution factor: 10
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/08/99

QC Batch: 9250212

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	110	U
79-00-5	1,1,2-Trichloroethane	110	U
79-01-6	Trichloroethene	110	U
75-01-4	Vinyl chloride	110	U
1330-20-7	**Xylenes (total)**	**67**	**J**

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 0.5 / g Date Received: 09/03/99
Work Order: D23X1102 Date Extracted:09/08/99
Dilution factor: 10 Date Analyzed: 09/08/99
Moisture %:5.7

QC Batch: 9250212

Client Sample Id: TS-DC-01

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
108-87-2	Cyclohexane, methyl-	7.4566	94	NJ
	Unknown Alkane	8.1562	140	J
	Unknown	8.2292	100	J
	Unknown Alkane	8.3083	250	J
	Unknown Alkane	8.8558	97	J
	Unknown Alkane	9.379	110	J
	Unknown	11.921	140	J
	Unknown	12.177	81	J
	Unknown	12.341	210	J
	Unknown Alkane	9.4277	130	J
	Unknown	11.264	100	J
	Unknown	11.721	170	J
496-11-7	Indane	12.536	140	NJ
95-13-6	Indene	12.749	140	NJ
	Unknown	12.931	150	J
	Unknown	13.114	130	J
	Unknown	13.448	100	J
	Unknown	13.905	170	J
91-20-3	Naphthalene	14.489	100	NJ
270-82-6	Benzo(c) thiophene	14.604	68	NJ
	Unknown	14.708	73	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g Date Received: 09/03/99
Work Order: D23X1202 Date Extracted:09/13/99
Dilution factor: 40 Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-01 -RE 1
Soil Extract Vol: 10 / mL Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	420	U
71-43-2	Benzene	420	U
75-27-4	Bromodichloromethane	420	U
75-25-2	Bromoform	420	U
74-83-9	Bromomethane	420	U
78-93-3	2-Butanone	420	U
75-15-0	Carbon disulfide	420	U
56-23-5	Carbon tetrachloride	420	U
108-90-7	Chlorobenzene	420	U
124-48-1	Dibromochloromethane	420	U
75-00-3	Chloroethane	420	U
67-66-3	Chloroform	420	U
74-87-3	Chloromethane	420	U
75-34-3	1,1-Dichloroethane	420	U
107-06-2	1,2-Dichloroethane	420	U
75-35-4	1,1-Dichloroethene	420	U
540-59-0	1,2-Dichloroethene (total)	420	U
78-87-5	1,2-Dichloropropane	420	U
10061-01-5	cis-1,3-Dichloropropene	420	U
10061-02-6	trans-1,3-Dichloropropene	420	U
100-41-4	Ethylbenzene	420	U
591-78-6	2-Hexanone	420	U
75-09-2	Methylene chloride	420	U
108-10-1	4-Methyl-2-pentanone	420	U
100-42-5	Styrene	420	U
79-34-5	1,1,2,2-Tetrachloroethane	420	U
127-18-4	Tetrachloroethene	420	U
108-88-3	**Toluene**	**730000**	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D23X1202

Date Extracted:09/13/99

Dilution factor: 40

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-01 -RE 1

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	420	U
79-00-5	1,1,2-Trichloroethane	420	U
79-01-6	Trichloroethene	420	U
75-01-4	Vinyl chloride	420	U
1330-20-7	Xylenes (total)	420	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g Date Received: 09/03/99
Work Order: D23X1202 Date Extracted:09/13/99
Dilution factor: 40 Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-01 -RE 1
Soil Extract Vol: 10 / mL Soil Aliquot Vol: 5 / mL

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
90-12-0	Naphthalene, 1-methyl-	10.285	28000	NJ

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23X5102

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:9.3

QC Batch: 9246421

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**8.6**	**J**
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	**2-Butanone**	**2.3**	**J**
75-15-0	**Carbon disulfide**	**22**	
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	**Chloroform**	**1.5**	**J**
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	**Ethylbenzene**	**3.4**	**J**
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	**Tetrachloroethene**	**5.8**	**J**
108-88-3	**Toluene**	**850**	**E**

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D23X5102
Dilution factor: 1
Moisture %:9.3

Date Received: 09/03/99
Date Extracted:09/03/99
Date Analyzed: 09/03/99

QC Batch: 9246421

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	**Xylenes (total)**	**17**	

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 006
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23X5102 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:9.3

QC Batch: 9246421

Client Sample Id: TS-DC-02

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
95-47-6	Benzene, 1,2-dimethyl-	10.604	7.4	NJ
	Unknown	10.841	6.5	J
496-11-7	Indane	12.533	6.2	NJ
2327-99-3	Benzene, 1,2-propadienyl-	12.746	7.2	NJ
91-22-3	Naphthalene	14.491	46	NJ
270-82-6	Benzo[c]thiophene	14.613	7.8	NJ

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D23X5202

Date Extracted:09/13/99

Dilution factor: 1

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-02 -RE 1

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	**Toluene**	**21000**	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D23X5202

Date Extracted:09/13/99

Dilution factor: 1

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-02 -RE 1

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 006
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g
Date Received: 09/03/99
Work Order: D23X5202
Date Extracted:09/13/99
Dilution factor: 1
Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-02 -RE 1
Soil Extract Vol: 10 / mL
Soil Aliquot Vol: 5 / mL

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Aromatic	12.268	880	J
91-20-3	Naphthalene	14.501	1400	NJ

FORM I - TIC

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 006
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g Date Received: 09/03/99
Work Order: D23X510X Date Extracted:09/13/99
Dilution factor: 1 Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-02
Soil Extract Vol: 10 / mL Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	4570	
108-90-7	Chlorobenzene	4740	
75-35-4	1,1-Dichloroethene	5100	
108-88-3	Toluene	24300	a
79-01-6	Trichloroethene	4490	

FORM I

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 006
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g Date Received: 09/03/99
Work Order: D23X5110 Date Extracted:09/13/99
Dilution factor: 1 Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-02
Soil Extract Vol: 10 / mL Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-43-2	Benzene	5020	
108-90-7	Chlorobenzene	5200	
75-35-4	1,1-Dichloroethene	5630	
108-88-3	Toluene	23900	a
79-01-6	Trichloroethene	5010	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23XA102

Date Extracted:09/07/99

Dilution factor: 1

Date Analyzed: 09/07/99

Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**32**	**B**
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	**Chloromethane**	**2.3**	**J**
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	**Methylene chloride**	**67**	
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	**Toluene**	**65**	**B**

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23XA102

Date Extracted:09/07/99

Dilution factor: 1

Date Analyzed: 09/07/99

Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	**Xylenes (total)**	**4.6**	**J**

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 007
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23XA102 Date Extracted:09/07/99
Dilution factor: 1 Date Analyzed: 09/07/99
Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	13.475	160	J
	Unknown	13.871	53	J
	Unknown	14.017	120	J
	Unknown	14.157	27	J
	Unknown	14.479	220	J
	Unknown	14.528	240	J
	Unknown	14.868	150	J
	Unknown Alkane	4.1741	5.2	J
	Unknown	12.38	9.3	J
	Unknown	13.195	12	J
	Unknown	13.256	30	J
	Unknown	13.396	19	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 007
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23XA202 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/08/99
Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	**Acetone**	**66**	**B**
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	**Ethylbenzene**	**1.1**	**J**
591-78-6	2-Hexanone	10	U
75-09-2	**Methylene chloride**	**110**	
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	**Toluene**	**71**	**B**

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D23XA202

Date Extracted:09/08/99

Dilution factor: 1

Date Analyzed: 09/08/99

Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.5	J

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 007
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D23XA202 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/08/99
Moisture %:

QC Batch: 9250212

Client Sample Id: TS-DC-03 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
79-20-9	Acetic acid, methyl ester	3.6544	34	NJ
	Unknown	1.9571	6.2	J
	Unknown Alkane	4.5973	5.3	J
	Unknown Alkane	4.1836	9.0	J
90-12-0	Naphthalene, 1-methyl-	11.264	53	NJ
	Unknown	12.426	5.7	J
	Unknown	12.645	12	J
	Unknown	12.816	18	J
	Unknown	12.98	9.4	J
	Unknown	13.266	35	J
	Unknown	13.199	14	J
	Unknown	13.394	54	J
	Unknown	13.479	64	J
	Unknown	13.558	18	J
	Unknown	13.795	39	J
	Unknown	13.874	90	J
	Unknown	14.02	240	J
	Unknown	14.16	61	J
	Unknown	14.209	110	J
	Unknown	14.373	23	J
	Unknown	14.482	89	J
	Unknown	14.531	140	J
	Unknown	14.586	65	J
	Unknown	14.628	210	J
	Unknown	14.799	160	J
	Unknown	14.872	240	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 007
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Date Received: 09/03/99
Work Order: D23XA202
Date Extracted:09/08/99
Dilution factor: 1
Date Analyzed: 09/08/99
Moisture %:
QC Batch: 9250212

Client Sample Id: TS-DC-03 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	15.012	160	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D23XD102

Date Extracted:09/13/99

Dilution factor: 50

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-04

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	580	U
71-43-2	Benzene	580	U
75-27-4	Bromodichloromethane	580	U
75-25-2	Bromoform	580	U
74-83-9	Bromomethane	580	U
78-93-3	2-Butanone	580	U
75-15-0	Carbon disulfide	580	U
56-23-5	Carbon tetrachloride	580	U
108-90-7	Chlorobenzene	580	U
124-48-1	Dibromochloromethane	580	U
75-00-3	Chloroethane	580	U
67-66-3	Chloroform	580	U
74-87-3	Chloromethane	580	U
75-34-3	1,1-Dichloroethane	580	U
107-06-2	1,2-Dichloroethane	580	U
75-35-4	1,1-Dichloroethene	580	U
540-59-0	1,2-Dichloroethene (total)	580	U
78-87-5	1,2-Dichloropropane	580	U
10061-01-5	cis-1,3-Dichloropropene	580	U
10061-02-6	trans-1,3-Dichloropropene	580	U
100-41-4	Ethylbenzene	580	U
591-78-6	2-Hexanone	580	U
75-09-2	Methylene chloride	580	U
108-10-1	4-Methyl-2-pentanone	580	U
100-42-5	Styrene	580	U
79-34-5	1,1,2,2-Tetrachloroethane	580	U
127-18-4	Tetrachloroethene	580	U
108-88-3	**Toluene**	**1200000**	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D23XD102

Date Extracted:09/13/99

Dilution factor: 50

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-04

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	580	U
79-00-5	1,1,2-Trichloroethane	580	U
79-01-6	Trichloroethene	580	U
75-01-4	Vinyl chloride	580	U
1330-20-7	Xylenes (total)	580	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 008
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g
Date Received: 09/03/99
Work Order: D23XD102
Date Extracted:09/13/99
Dilution factor: 50
Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: TS-DC-04
Soil Extract Vol: 10 / mL
Soil Aliquot Vol: 5 / mL

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
91-57-6	Naphthalene, 2-methyl-	10.216	140000	NJ
	Unknown Aromatic	11.378	65000	J
620-14-4	1-ETHYL-3-METHYL BENZENE	11.469	77000	NJ
108-67-8	1,3,5-TRIMETHYLBENZENE	11.926	92000	NJ
	Unknown Alkane	12.424	41000	J

FORM I - TIC

ORIGINAL

OCLP OLM03.1 SURROGATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT QESSDG:

Lot #: C9I030140

	CLIENT ID.	SRG01	SRG02	SRG03	TOT OUT
01	TS-AM-01	104	85	97	00
02	TS-AM-02	100	94	101	00
03	TS-FD-03	108	95	107	00
04	TS-AM-03	101	99	103	00
05	TS-DC-03	140*	71	126*	02
06	TS-DC-03 RE-1	131	76	144*	01
07	TS-DC-01	95	94	109	00
08	TS-DC-02	100	98	105	00
09	METHOD BLK. D24VV101	99	99	106	00
10	METHOD BLK. D25WE101	102	99	105	00
11	TS-AM-01 D	106	91	104	00
12	TS-AM-01 S	106	90	99	00
13	TS-DC-04	0.0D	0.0D	0.0D	03
14	TS-DC-01 RE-1	0 D	0 D	0 D	03
15	TS-DC-02 RE-1	107	110	120	00
16	METHOD BLK. D26T5101	99	97	98	00
17	TS-DC-02 D	99	102	101	00
18	TS-DC-02 S	103	105	101	00

SURROGATES		QC LIMITS
SRG01	= Toluene-d8	(84-138)
SRG02	= Bromofluorobenzene	(59-113)
SRG03	= 1,2-Dichloroethane-d4	(70-121)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

ORIGINAL

OCLP-OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level:(low/med) LOW

Lot #: C9I030140 WO #: D23WA105
BATCH: 9246421

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	65.4	ND	93.4	143	59- 172	
Trichloroethene	65.4	ND	73.0	112	62- 137	
Benzene	65.4	ND	83.0	127	66- 142	
Toluene	65.4	ND	86.6	132	59- 139	
Chlorobenzene	65.4	ND	86.9	133	60- 133	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level:(low/med) LOW

Lot #: C9I030140 WO #: D23WA106
BATCH: 9246421

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	65.4	75.0	115	10	21	66 - 142	
Toluene	65.4	77.5	118	11	21	59 - 139	
1,1-Dichloroethene	65.4	84.8	130	9.6	22	59 - 172	
Trichloroethene	65.4	63.7	97	14	24	62 - 137	
Chlorobenzene	65.4	74.4	114	15	21	60 - 133	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-DC-02 Level:(low/med) MED

Lot #: C9I030140 WO #: D23X510X
BATCH: 9251217

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	6890	ND	5100	74	59- 172	
Trichloroethene	6890	ND	4490	65	62- 137	
Benzene	6890	ND	4570	66	66- 142	
Toluene	6890	21000	24300	46*	59- 139	a
Chlorobenzene	6890	ND	4740	69	60- 133	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-DC-02 Level:(low/med) MED

Lot #: C9I030140 WO #: D23X5110
BATCH: 9251217

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,1-Dichloroethene	6890	5630	82	10	22	59- 172	
Trichloroethene	6890	5010	73	11	24	62- 137	
Benzene	6890	5020	73	9.4	21	66- 142	
Toluene	6890	23900	40*	1.7	21	59- 139	a
Chlorobenzene	6890	5200	75	9.2	21	60- 133	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 1 out of 5 outside limits

COMMENTS:

FORM III

ORIGINAL

BLANK WORKORDER NO.

D24VV101

OCLP OLM03.1 METHOD BLANK SUMMARY

Lab Name: QUANTERRA

Lab Code: QESPIT

SDG Number:

Lab File ID: ss50903.d

Lot Number: C9I030140

Date Analyzed: 09/03/99

Time Analyzed: 11:16

Matrix: SOLID

Date Extracted:09/03/99

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP5

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TS-AM-01	D23WA104	5090308.d	09/03/99	16:39
02	TS-AM-01	D23WA105 S	5090309.d	09/03/99	17:08
03	TS-AM-01	D23WA106 D	5090310.d	09/03/99	17:43
04	TS-AM-02	D23WH102	5090311.d	09/03/99	18:12
05	TS-FD-03	D23WN102	5090312.d	09/03/99	18:43
06	TS-AM-03	D23WT102	5090313.d	09/03/99	19:13
07	TS-DC-02	D23X5102	5090315	09/03/99	20:09
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030000 421
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g Date Received: 09/03/99
Work Order: D24VV101 Date Extracted:09/03/99
Dilution factor: 1 Date Analyzed: 09/03/99
Moisture %:NA

QC Batch: 9246421

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U

FORM I

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030000 421

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D24VV101

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:NA

QC Batch: 9246421

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030000 421

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 09/03/99

Work Order: D24VV101

Date Extracted:09/03/99

Dilution factor: 1

Date Analyzed: 09/03/99

Moisture %:NA

QC Batch: 9246421

Client Sample Id: INTRA-LAB BLANK

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

BLANK WORKORDER NO.

D25WE101

OCLP OLM03.1 METHOD BLANK SUMMARY

Lab Name: QUANTERRA

Lab Code: QESPIT

SDG Number:

Lab File ID: 5090702N

Lot Number: C9I030140

Date Analyzed: 09/07/99

Time Analyzed: 22:49

Matrix: SOLID

Date Extracted:09/07/99

GC Column: HP624 ID: .20

Extraction Method: 5030

Instrument ID: HP5

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TS-DC-03	D23XA102	5090703n.	09/07/99	23:21
02	TS-DC-03	D23XA202	5090707n.	09/08/99	01:28
03	TS-DC-01	D23X1102	5090708n.	09/08/99	02:00
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I070000 212

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D25WE101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/07/99
Date Analyzed: 09/07/99

QC Batch: 9250212

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	3.0	J
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	2.2	J

FORM I

ORIGINAL
ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I070000 212

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D25WE101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/07/99
Date Analyzed: 09/07/99

QC Batch: 9250212

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I070000 212

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: D25WE101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/07/99
Date Analyzed: 09/07/99

QC Batch: 9250212

Client Sample Id: INTRA-LAB BLANK

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

BLANK WORKORDER NO.

D26T5101

OCLP OLM03.1 METHOD BLANK SUMMARY

Lab Name: QUANTERRA

Lab Code: QESPIT

SDG Number:

Lab File ID: mb30913.d

Lot Number: C9I030140

Date Analyzed: 09/13/99

Time Analyzed: 07:06

Matrix: SOLID

Date Extracted:09/13/99

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP3

Level:(low/med) MED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TS-DC-04	D23XD102	3091308.d	09/13/99	10:31
02	TS-DC-01	D23X1202	3091307.d	09/13/99	10:09
03	TS-DC-02	D23X510X S	3091309.d	09/13/99	10:54
04	TS-DC-02	D23X5110 D	3091310.d	09/13/99	11:17
05	TS-DC-02	D23X5202	3091301.d	09/13/99	07:30
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name: QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID: C9I080000 217
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g
Date Received: 09/03/99
Work Order: D26T5101
Date Extracted: 09/13/99
Dilution factor: 1
Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: INTRA-LAB BLANK
Soil Extract Vol: 10 / mL
Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U

FORM I

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I080000 217

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g
Work Order: D26T5101
Dilution factor: 1

Date Received: 09/03/99
Date Extracted:09/13/99
Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: INTRA-LAB BLANK
Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I080000 217

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 4 / g

Date Received: 09/03/99

Work Order: D26T5101

Date Extracted: 09/13/99

Dilution factor: 1

Date Analyzed: 09/13/99

QC Batch: 9251217

Client Sample Id: INTRA-LAB BLANK

Soil Extract Vol: 10 / mL

Soil Aliquot Vol: 5 / mL

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA,PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): SB50903N Date Analyzed: 09/03/99

Instrument ID: HP5 Time Analyzed: 1033

GC Column: DB624 ID: 0.20 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	222583	5.80	1787501	6.99	1819488	9.95
	UPPER LIMIT	445166	6.30	3575002	7.49	3638976	10.45
	LOWER LIMIT	111292	5.30	893750	6.49	909744	9.45
	EPA SAMPLE NO.						
01	INTRA-LAB BL	215301	5.81	1779421	6.99	1865253	9.95
02	AM-01	167257	5.80	1455414	7.00	1378711	9.95
03	AM-01	172059	5.80	1476318	7.00	1417334	9.95
04	AM-01	181994	5.80	1566993	6.99	1488632	9.95
05	AM-02	190903	5.81	1617906	6.99	1614555	9.95
06	TS-FD-03	181895	5.81	1509985	6.99	1479357	9.95
07	TS-AM-03	204690	5.81	1726411	7.00	1800861	9.95
08	TS-DC-02	169500	5.80	1406622	7.00	1462811	9.95
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

ORIGINAL

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): CC50907N Date Analyzed: 09/07/99

Instrument ID: HP5 Time Analyzed: 2057

GC Column: DB624 ID: 0.20 (mm) Heated Purge: (Y/N) Y

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	301790	5.80	2198644	6.99	1935874	9.95
	UPPER LIMIT	603580	6.30	4397288	7.49	3871748	10.45
	LOWER LIMIT	150895	5.30	1099322	6.49	967937	9.45
	EPA SAMPLE NO.						
01	INTRA-LAB BL	266103	5.80	2005105	6.99	1753897	9.95
02	TS-DC-03	70611*	5.80	549732*	6.99	252592*	9.95
03	TS-DC-03	39357*	5.80	366726*	6.99	176177*	9.94
04	TS-DC-01	236745	5.81	1559771	6.99	1167394	9.95
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII VOA OLM03.0

ORIGINAL

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): 1C30913 Date Analyzed: 09/13/99

Instrument ID: HP3 Time Analyzed: 0632

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	100073	5.75	646864	6.97	679885	9.95
	UPPER LIMIT	200146	6.25	1293728	7.47	1359770	10.45
	LOWER LIMIT	50036	5.25	323432	6.47	339942	9.45
	EPA SAMPLE NO.						
01	INTRA-LAB BL	105754	5.75	677549	6.97	685627	9.95
02	TS-DC-02	87278	5.75	565786	6.97	632817	9.95
03	TS-DC-01	103910	5.75	687568	6.97	676112	9.95
04	TS-DC-04	104275	5.76	675215	6.97	677738	9.95
05	TS-DC-02	104481	5.75	688224	6.97	672334	9.95
06	TS-DC-02	104038	5.75	688693	6.97	684310	9.95
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII VOA OLM03.0

ORIGINAL

GC/MS SEMIVOLATILES

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23WA107 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/18/99
Moisture %:24

QC Batch: 9251394

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
120-12-7	Anthracene	430	U
56-55-3	Benzo(a)anthracene	430	U
50-32-8	Benzo(a)pyrene	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
191-24-2	Benzo(ghi)perylene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
111-44-4	bis(2-Chloroethyl) ether	430	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**85**	**J**
101-55-3	4-Bromophenyl phenyl ether	430	U
85-68-7	Butyl benzyl phthalate	430	U
86-74-8	Carbazole	430	U
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl phenyl ether	430	U
218-01-9	**Chrysene**	**65**	**J**
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I030140 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WA107
Dilution factor: 1
Moisture %: 24

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
84-74-2	Di-n-butyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
51-28-5	2,4-Dinitrophenol	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	430	U
91-57-6	2-Methylnaphthalene	430	U
95-48-7	2-Methylphenol	430	U
91-20-3	Naphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
87-86-5	Pentachlorophenol	1100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WA107
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
129-00-0	Pyrene	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	430	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23WA107 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/18/99
Moisture %:24

QC Batch: 9251394

Client Sample Id: TS-AM-01

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Branched Alkane	3.7072	670	J
	Unknown	3.8086	210	J
	Unknown	3.9475	2800	J
	Unknown Cyclic Alkane	4.2626	430	J
	Unknown	4.8074	120	J
	Unknown Alcohol	4.9623	90	J
	Unknown	9.1123	88	J
	Unknown Straight Alkane	11.473	95	J
1921-70-6	Pentadecane, 2,6,10,14-tetra	11.537	110	NJ
	Unknown Straight Alkane	13.54	130	J
	Unknown Straight Alkane	13.614	460	J
57-10-3	Hexadecanoic acid	14.25	490	NJ
	Unknown Straight Alkane	14.64	530	J
	Unknown Straight Alkane	15.265	140	J
	Unknown	15.361	130	J
	Unknown Straight Alkane	15.409	300	J
	Unknown Straight Alkane	15.628	430	J
	Unknown Branched Alkane	15.948	230	J
	Unknown Straight Alkane	16.232	120	J
	Unknown Straight Alkane	16.579	320	J
	Unknown Straight Alkane	16.921	370	J
	Unknown Straight Alkane	17.497	180	J
	Unknown	17.668	340	J
	Unknown	24.462	1200	J
	Unknown	25.91	400	J
123-42-2	2-Pentanone, 4-hydroxy-4-met	3.1837	7700	NJA

FORM I - TIC

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WA107
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-01

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	3.2478	14000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WA108
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251394

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1710	
59-50-7	4-Chloro-3-methylphenol	1600	
95-57-8	2-Chlorophenol	1520	
106-46-7	1,4-Dichlorobenzene	1520	
121-14-2	2,4-Dinitrotoluene	1670	
100-02-7	4-Nitrophenol	1990	
621-64-7	N-Nitrosodi-n-propylamine	1530	
87-86-5	Pentachlorophenol	1730	
108-95-2	Phenol	1520	
129-00-0	Pyrene	1230	
120-82-1	1,2,4-Trichlorobenzene	1690	

FORM I

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 001
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23WA109 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/24/99
Moisture %:24

QC Batch: 9251394

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1800	
59-50-7	4-Chloro-3-methylphenol	1820	
95-57-8	2-Chlorophenol	1550	
106-46-7	1,4-Dichlorobenzene	1460	
121-14-2	2,4-Dinitrotoluene	1850	
100-02-7	4-Nitrophenol	3050	
621-64-7	N-Nitrosodi-n-propylamine	1510	
87-86-5	Pentachlorophenol	2020	
108-95-2	Phenol	1730	
129-00-0	Pyrene	1350	
120-82-1	1,2,4-Trichlorobenzene	1640	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23WH103

Date Extracted:09/08/99

Dilution factor: 1

Date Analyzed: 09/18/99

Moisture %:26

QC Batch: 9251394

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	440	U
208-96-8	Acenaphthylene	440	U
120-12-7	Anthracene	440	U
56-55-3	Benzo(a)anthracene	440	U
50-32-8	Benzo(a)pyrene	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
191-24-2	Benzo(ghi)perylene	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
111-44-4	bis(2-Chloroethyl) ether	440	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**130**	**J**
101-55-3	4-Bromophenyl phenyl ether	440	U
85-68-7	Butyl benzyl phthalate	440	U
86-74-8	Carbazole	440	U
106-47-8	4-Chloroaniline	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-58-7	2-Chloronaphthalene	440	U
95-57-8	2-Chlorophenol	440	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U
218-01-9	Chrysene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
132-64-9	Dibenzofuran	440	U
95-50-1	1,2-Dichlorobenzene	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
120-83-2	2,4-Dichlorophenol	440	U
84-66-2	Diethyl phthalate	440	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WH103
Dilution factor: 1
Moisture %:26

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	440	U
131-11-3	Dimethyl phthalate	440	U
84-74-2	Di-n-butyl phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
51-28-5	2,4-Dinitrophenol	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
121-14-2	2,4-Dinitrotoluene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
206-44-0	Fluoranthene	440	U
86-73-7	Fluorene	440	U
118-74-1	Hexachlorobenzene	440	U
87-68-3	Hexachlorobutadiene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
67-72-1	Hexachloroethane	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
78-59-1	Isophorone	440	U
91-57-6	2-Methylnaphthalene	440	U
95-48-7	2-Methylphenol	440	U
91-20-3	Naphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	440	U
88-75-5	2-Nitrophenol	440	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
87-86-5	Pentachlorophenol	1100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WH103
Dilution factor: 1
Moisture %:26

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	440	U
108-95-2	Phenol	440	U
129-00-0	Pyrene	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	440	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WH103
Dilution factor: 1
Moisture %:26

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-02

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	3.2057	8500	NJA
	Unknown	3.3019	3700	J
	Unknown Branched Alkane	3.7292	610	J
	Unknown	3.9695	2000	J
	Unknown	4.0122	97	J
	Unknown Alcohol	4.2793	410	J
	Unknown	4.8187	120	J
	Unknown	4.9736	120	J
57-10-3	Hexadecanoic acid	14.251	440	NJ
	Unknown Alcohol	19.154	96	J
	Unknown Straight Alkane	20.783	91	J
	Unknown Straight Alkane	22.262	110	J
	Unknown Straight Alkane	23.646	110	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WN103
Dilution factor: 1
Moisture %:25

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	440	U
208-96-8	Acenaphthylene	440	U
120-12-7	Anthracene	440	U
56-55-3	**Benzo(a)anthracene**	**43**	
50-32-8	Benzo(a)pyrene	440	U
205-99-2	**Benzo(b)fluoranthene**	**45**	**J**
207-08-9	Benzo(k)fluoranthene	440	U
191-24-2	Benzo(ghi)perylene	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
111-44-4	bis(2-Chloroethyl) ether	440	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**810**	
101-55-3	4-Bromophenyl phenyl ether	440	U
85-68-7	**Butyl benzyl phthalate**	**72**	**J**
86-74-8	Carbazole	440	U
106-47-8	4-Chloroaniline	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-58-7	2-Chloronaphthalene	440	U
95-57-8	2-Chlorophenol	440	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U
218-01-9	**Chrysene**	**55**	**J**
53-70-3	Dibenz(a,h)anthracene	440	U
132-64-9	Dibenzofuran	440	U
95-50-1	1,2-Dichlorobenzene	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
120-83-2	2,4-Dichlorophenol	440	U
84-66-2	Diethyl phthalate	440	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WN103
Dilution factor: 1
Moisture %:25

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	440	U
131-11-3	Dimethyl phthalate	440	U
84-74-2	Di-n-butyl phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
51-28-5	2,4-Dinitrophenol	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
121-14-2	2,4-Dinitrotoluene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
206-44-0	**Fluoranthene**	**81**	**J**
86-73-7	Fluorene	440	U
118-74-1	Hexachlorobenzene	440	U
87-68-3	Hexachlorobutadiene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
67-72-1	Hexachloroethane	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
78-59-1	**Isophorone**	**410**	**J**
91-57-6	2-Methylnaphthalene	440	U
95-48-7	2-Methylphenol	440	U
91-20-3	Naphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	440	U
88-75-5	2-Nitrophenol	440	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
87-86-5	Pentachlorophenol	1100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WN103
Dilution factor: 1
Moisture %:25

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	**Phenanthrene**	**44**	**J**
108-95-2	Phenol	440	U
129-00-0	**Pyrene**	**62**	**J**
120-82-1	1,2,4-Trichlorobenzene	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	440	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 003
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Date Received: 09/03/99
Work Order: D23WN103
Date Extracted:09/08/99
Dilution factor: 1
Date Analyzed: 09/18/99
Moisture %:25
QC Batch: 9251394

Client Sample Id: TS-FD-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Aldol Condensate	3.6341	4800	JA
	Unknown	4.0346	160	J
	Unknown	4.072	220	J
57-10-3	Hexadecanoic acid	14.236	240	NJ
	Unknown	18.508	110	J
	Unknown	23.78	110	J
	Unknown	24.405	180	J
	Unknown Organic Acid	26.819	110	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WT103
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
120-12-7	Anthracene	430	U
56-55-3	Benzo(a)anthracene	430	U
50-32-8	Benzo(a)pyrene	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
191-24-2	Benzo(ghi)perylene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
111-44-4	bis(2-Chloroethyl) ether	430	U
117-81-7	bis(2-Ethylhexyl) phthalate	79	J
101-55-3	4-Bromophenyl phenyl ether	430	U
85-68-7	Butyl benzyl phthalate	430	U
86-74-8	Carbazole	430	U
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl phenyl ether	430	U
218-01-9	Chrysene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 004
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23WT103 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/18/99
Moisture %:24

QC Batch: 9251394

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
84-74-2	Di-n-butyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
51-28-5	2,4-Dinitrophenol	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	430	U
91-57-6	2-Methylnaphthalene	430	U
95-48-7	2-Methylphenol	430	U
91-20-3	Naphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
87-86-5	Pentachlorophenol	1100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WT103
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
129-00-0	Pyrene	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	430	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I030140 004
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WT103
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251394

Client Sample Id: TS-AM-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	3.2696	22000	NJA
	Unknown Branched Alkane	3.7183	220	J
	Unknown	3.9907	410	J
	Unknown	4.2684	150	J
	Unknown	4.7651	92	J
	Unknown	5.4488	180	J
	Unknown	12.189	93	J
57-10-3	Hexadecanoic acid	14.234	420	NJ
	Unknown	19.138	120	J
	Unknown Straight Alkane	20.772	96	J
	Unknown Straight Alkane	22.246	120	J
	Unknown Straight Alkane	22.951	89	J
	Unknown Straight Alkane	23.629	110	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004 RE

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WT203
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/20/99
Date Analyzed: 09/24/99

QC Batch: 9263395

Client Sample Id: TS-AM-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
120-12-7	Anthracene	430	U
56-55-3	Benzo(a)anthracene	430	U
50-32-8	Benzo(a)pyrene	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
191-24-2	Benzo(ghi)perylene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
111-44-4	bis(2-Chloroethyl) ether	430	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**800**	
101-55-3	4-Bromophenyl phenyl ether	430	U
85-68-7	**Butyl benzyl phthalate**	**70**	**J**
86-74-8	Carbazole	430	U
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl phenyl ether	430	U
218-01-9	Chrysene	430	U
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 004 RE
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23WT203 Date Extracted:09/20/99
Dilution factor: 1 Date Analyzed: 09/24/99
Moisture %:24

QC Batch: 9263395

Client Sample Id: TS-AM-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
84-74-2	Di-n-butyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
51-28-5	2,4-Dinitrophenol	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
206-44-0	Fluoranthene	430	U
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	180	J
91-57-6	2-Methylnaphthalene	430	U
95-48-7	2-Methylphenol	430	U
91-20-3	Naphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
87-86-5	Pentachlorophenol	1100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004 RE

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23WT203

Date Extracted:09/20/99

Dilution factor: 1

Date Analyzed: 09/24/99

Moisture %:24

QC Batch: 9263395

Client Sample Id: TS-AM-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	430	U
108-95-2	Phenol	430	U
129-00-0	Pyrene	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	430	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 004 RE

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23WT203
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/20/99
Date Analyzed: 09/24/99

QC Batch: 9263395

Client Sample Id: TS-AM-03 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	3.0922	330000	NJA
	Unknown	3.1991	27000	J
98-86-2	Acetophenone	4.9673	130	NJ
	Unknown	20.101	220	J
	Unknown	23.007	89	J
	Unknown	23.59	150	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I030140 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1103
Dilution factor: 200
Moisture %: 5.7

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	**Acenaphthene**	**450000**	
208-96-8	Acenaphthylene	70000	U
120-12-7	Anthracene	70000	U
56-55-3	Benzo(a)anthracene	70000	U
50-32-8	Benzo(a)pyrene	70000	U
205-99-2	Benzo(b)fluoranthene	70000	U
207-08-9	Benzo(k)fluoranthene	70000	U
191-24-2	Benzo(ghi)perylene	70000	U
111-91-1	bis(2-Chloroethoxy)methane	70000	U
111-44-4	bis(2-Chloroethyl) ether	70000	U
117-81-7	bis(2-Ethylhexyl) phthalate	70000	U
101-55-3	4-Bromophenyl phenyl ether	70000	U
85-68-7	Butyl benzyl phthalate	70000	U
86-74-8	Carbazole	70000	U
106-47-8	4-Chloroaniline	70000	U
59-50-7	4-Chloro-3-methylphenol	70000	U
91-58-7	2-Chloronaphthalene	70000	U
95-57-8	2-Chlorophenol	70000	U
7005-72-3	4-Chlorophenyl phenyl ether	70000	U
218-01-9	Chrysene	70000	U
53-70-3	Dibenz(a,h)anthracene	70000	U
132-64-9	**Dibenzofuran**	**470000**	
95-50-1	1,2-Dichlorobenzene	70000	U
541-73-1	1,3-Dichlorobenzene	70000	U
106-46-7	1,4-Dichlorobenzene	70000	U
91-94-1	3,3'-Dichlorobenzidine	70000	U
120-83-2	2,4-Dichlorophenol	70000	U
84-66-2	Diethyl phthalate	70000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1103
Dilution factor: 200
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	70000	U
131-11-3	Dimethyl phthalate	70000	U
84-74-2	Di-n-butyl phthalate	70000	U
117-84-0	Di-n-octyl phthalate	70000	U
51-28-5	2,4-Dinitrophenol	180000	U
534-52-1	4,6-Dinitro-2-methylphenol	180000	U
121-14-2	2,4-Dinitrotoluene	70000	U
606-20-2	2,6-Dinitrotoluene	70000	U
206-44-0	Fluoranthene	70000	U
86-73-7	**Fluorene**	**90000**	
118-74-1	Hexachlorobenzene	70000	U
87-68-3	Hexachlorobutadiene	70000	U
77-47-4	Hexachlorocyclopentadiene	70000	U
67-72-1	Hexachloroethane	70000	U
193-39-5	Indeno(1,2,3-cd)pyrene	70000	U
78-59-1	Isophorone	70000	U
91-57-6	**2-Methylnaphthalene**	**900000**	**E**
95-48-7	2-Methylphenol	70000	U
91-20-3	Naphthalene	70000	U
88-74-4	2-Nitroaniline	180000	U
99-09-2	3-Nitroaniline	180000	U
100-01-6	4-Nitroaniline	180000	U
98-95-3	Nitrobenzene	70000	U
88-75-5	2-Nitrophenol	70000	U
100-02-7	4-Nitrophenol	180000	U
621-64-7	N-Nitrosodi-n-propylamine	70000	U
86-30-6	N-Nitrosodiphenylamine	70000	U
87-86-5	Pentachlorophenol	180000	U

FORM I

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1103
Dilution factor: 200
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	70000	U
108-95-2	Phenol	70000	U
129-00-0	Pyrene	70000	U
120-82-1	1,2,4-Trichlorobenzene	70000	U
95-95-4	2,4,5-Trichlorophenol	180000	U
88-06-2	2,4,6-Trichlorophenol	70000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	70000	U
106-44-5	4-Methylphenol	70000	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1103
Dilution factor: 200
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	2.7442	42000	J
16587-47-6	Benzo[b]thiophene, 6-methyl-	6.9591	22000	NJ
90-12-0	Naphthalene, 1-methyl-	7.0446	550000	NJ
92-52-4	Biphenyl	7.6589	150000	NJ
	Unknown Substituted Naphthal	7.8138	44000	J
	Unknown Substituted Naphthal	7.926	180000	J
	Unknown Substituted Naphthal	8.0863	180000	J
	Unknown Substituted Naphthal	8.1183	110000	J
	Unknown Substituted Naphthal	8.2839	64000	J
	Unknown Substituted Naphthal	8.3267	23000	J
	Unknown Substituted Naphthal	8.4496	31000	J
	Unknown	9.0532	19000	J
	Unknown Substituted Naphthal	9.1707	20000	J
	Unknown Substituted Naphthal	9.5607	18000	J
	Unknown Substituted Naphthal	11.291	17000	J
	Unknown Substituted Naphthal	11.425	220000	J
	Unknown Substituted Naphthal	12.237	140000	J
	Unknown Substituted Naphthal	13.225	73000	J
	Unknown Substituted Naphthal	14.24	96000	J
	Unknown Substituted Naphthal	14.587	91000	J
	Unknown Substituted Naphthal	13.46	19000	J
	Unknown Substituted Naphthal	13.727	42000	J
	Unknown Substituted Naphthal	14.096	66000	J
	Unknown Substituted Naphthal	16.409	52000	J
	Unknown PAH	17.37	34000	J
	Unknown	22.937	32000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005 DL

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1203
Dilution factor: 400
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	**Acenaphthene**	**390000**	
208-96-8	Acenaphthylene	140000	U
120-12-7	Anthracene	140000	U
56-55-3	Benzo(a)anthracene	140000	U
50-32-8	Benzo(a)pyrene	140000	U
205-99-2	Benzo(b)fluoranthene	140000	U
207-08-9	Benzo(k)fluoranthene	140000	U
191-24-2	Benzo(ghi)perylene	140000	U
111-91-1	bis(2-Chloroethoxy)methane	140000	U
111-44-4	bis(2-Chloroethyl) ether	140000	U
117-81-7	bis(2-Ethylhexyl) phthalate	140000	U
101-55-3	4-Bromophenyl phenyl ether	140000	U
85-68-7	Butyl benzyl phthalate	140000	U
86-74-8	Carbazole	140000	U
106-47-8	4-Chloroaniline	140000	U
59-50-7	4-Chloro-3-methylphenol	140000	U
91-58-7	2-Chloronaphthalene	140000	U
95-57-8	2-Chlorophenol	140000	U
7005-72-3	4-Chlorophenyl phenyl ether	140000	U
218-01-9	Chrysene	140000	U
53-70-3	Dibenz(a,h)anthracene	140000	U
132-64-9	**Dibenzofuran**	**400000**	
95-50-1	1,2-Dichlorobenzene	140000	U
541-73-1	1,3-Dichlorobenzene	140000	U
106-46-7	1,4-Dichlorobenzene	140000	U
91-94-1	3,3'-Dichlorobenzidine	140000	U
120-83-2	2,4-Dichlorophenol	140000	U
84-66-2	Diethyl phthalate	140000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005 DL

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1203
Dilution factor: 400
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	140000	U
131-11-3	Dimethyl phthalate	140000	U
84-74-2	Di-n-butyl phthalate	140000	U
117-84-0	Di-n-octyl phthalate	140000	U
51-28-5	2,4-Dinitrophenol	350000	U
534-52-1	4,6-Dinitro-2-methylphenol	350000	U
121-14-2	2,4-Dinitrotoluene	140000	U
606-20-2	2,6-Dinitrotoluene	140000	U
206-44-0	Fluoranthene	140000	U
86-73-7	**Fluorene**	**82000**	**J**
118-74-1	Hexachlorobenzene	140000	U
87-68-3	Hexachlorobutadiene	140000	U
77-47-4	Hexachlorocyclopentadiene	140000	U
67-72-1	Hexachloroethane	140000	U
193-39-5	Indeno(1,2,3-cd)pyrene	140000	U
78-59-1	Isophorone	140000	U
91-57-6	**2-Methylnaphthalene**	**710000**	
95-48-7	2-Methylphenol	140000	U
91-20-3	Naphthalene	140000	U
88-74-4	2-Nitroaniline	350000	U
99-09-2	3-Nitroaniline	350000	U
100-01-6	4-Nitroaniline	350000	U
98-95-3	Nitrobenzene	140000	U
88-75-5	2-Nitrophenol	140000	U
100-02-7	4-Nitrophenol	350000	U
621-64-7	N-Nitrosodi-n-propylamine	140000	U
86-30-6	N-Nitrosodiphenylamine	140000	U
87-86-5	Pentachlorophenol	350000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 005 0L

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X1203
Dilution factor: 400
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-01 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	140000	U
108-95-2	Phenol	140000	U
129-00-0	Pyrene	140000	U
120-82-1	1,2,4-Trichlorobenzene	140000	U
95-95-4	2,4,5-Trichlorophenol	350000	U
88-06-2	2,4,6-Trichlorophenol	140000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	140000	U
106-44-5	4-Methylphenol	140000	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 005 0L
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23X1203 Date Extracted:09/08/99
Dilution factor: 400 Date Analyzed: 09/24/99
Moisture %:5.7

QC Batch: 9251394

Client Sample Id: TS-DC-01 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
90-12-0	Naphthalene, 1-methyl-	6.7238	440000	NJ
92-52-4	Biphenyl	7.2592	170000	NJ
	Unknown Substituted Naphthal	7.402	52000	J
	Unknown Substituted Naphthal	7.5091	200000	J
	Unknown Substituted Naphthal	7.6447	210000	J
	Unknown Substituted Naphthal	7.6804	120000	J
	Unknown Substituted Naphthal	7.8303	72000	J
	Unknown Substituted Naphthal	7.9802	34000	J
	Unknown Chlorinated Naphthal	10.65	180000	J
	Unknown Chlorinated Naphthal	10.685	37000	J
	Unknown Chlorinated Naphthal	11.371	120000	J
	Unknown Chlorinated Naphthal	12.256	58000	J
	Unknown Chlorinated Naphthal	12.706	33000	J
	Unknown Chlorinated Naphthal	13.034	52000	J
	Unknown Chlorinated Naphthal	13.162	84000	J
	Unknown Chlorinated Naphthal	13.469	70000	J
135-88-6	2-Naphthalenamine, N-phenyl-	15.083	30000	NJ
	Unknown	16.996	110000	J
	Unknown	20.801	34000	J
	Unknown	20.929	53000	J
	Unknown	3.1117	45000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X5103
Dilution factor: 25
Moisture %:9.3

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	9100	U
208-96-8	Acenaphthylene	9100	U
120-12-7	Anthracene	9100	U
56-55-3	Benzo(a)anthracene	9100	U
50-32-8	Benzo(a)pyrene	9100	U
205-99-2	Benzo(b)fluoranthene	9100	U
207-08-9	Benzo(k)fluoranthene	9100	U
191-24-2	Benzo(ghi)perylene	9100	U
111-91-1	bis(2-Chloroethoxy)methane	9100	U
111-44-4	bis(2-Chloroethyl) ether	9100	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**68000**	
101-55-3	4-Bromophenyl phenyl ether	9100	U
85-68-7	Butyl benzyl phthalate	9100	U
86-74-8	Carbazole	9100	U
106-47-8	4-Chloroaniline	9100	U
59-50-7	4-Chloro-3-methylphenol	9100	U
91-58-7	2-Chloronaphthalene	9100	U
95-57-8	2-Chlorophenol	9100	U
7005-72-3	4-Chlorophenyl phenyl ether	9100	U
218-01-9	Chrysene	9100	U
53-70-3	Dibenz(a,h)anthracene	9100	U
132-64-9	Dibenzofuran	9100	U
95-50-1	1,2-Dichlorobenzene	9100	U
541-73-1	1,3-Dichlorobenzene	9100	U
106-46-7	1,4-Dichlorobenzene	9100	U
91-94-1	3,3'-Dichlorobenzidine	9100	U
120-83-2	2,4-Dichlorophenol	9100	U
84-66-2	Diethyl phthalate	9100	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I030140 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X5103
Dilution factor: 25
Moisture %: 9.3

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	9100	U
131-11-3	Dimethyl phthalate	9100	U
84-74-2	Di-n-butyl phthalate	9100	U
117-84-0	Di-n-octyl phthalate	9100	U
51-28-5	2,4-Dinitrophenol	23000	U
534-52-1	4,6-Dinitro-2-methylphenol	23000	U
121-14-2	2,4-Dinitrotoluene	9100	U
606-20-2	2,6-Dinitrotoluene	9100	U
206-44-0	Fluoranthene	9100	U
86-73-7	Fluorene	9100	U
118-74-1	Hexachlorobenzene	9100	U
87-68-3	Hexachlorobutadiene	9100	U
77-47-4	Hexachlorocyclopentadiene	9100	U
67-72-1	Hexachloroethane	9100	U
193-39-5	Indeno(1,2,3-cd)pyrene	9100	U
78-59-1	Isophorone	9100	U
91-57-6	**2-Methylnaphthalene**	**58000**	
95-48-7	2-Methylphenol	9100	U
91-20-3	**Naphthalene**	**1600**	**J**
88-74-4	2-Nitroaniline	23000	U
99-09-2	3-Nitroaniline	23000	U
100-01-6	4-Nitroaniline	23000	U
98-95-3	Nitrobenzene	9100	U
88-75-5	2-Nitrophenol	9100	U
100-02-7	4-Nitrophenol	23000	U
621-64-7	N-Nitrosodi-n-propylamine	9100	U
86-30-6	N-Nitrosodiphenylamine	9100	U
87-86-5	Pentachlorophenol	23000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C9I030140 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X5103
Dilution factor: 25
Moisture %: 9.3

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	9100	U
108-95-2	Phenol	9100	U
129-00-0	Pyrene	9100	U
120-82-1	1,2,4-Trichlorobenzene	9100	U
95-95-4	2,4,5-Trichlorophenol	23000	U
88-06-2	2,4,6-Trichlorophenol	9100	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	9100	U
106-44-5	4-Methylphenol	9100	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 006
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23X5103 Date Extracted:09/08/99
Dilution factor: 25 Date Analyzed: 09/24/99
Moisture %:9.3

QC Batch: 9251394

Client Sample Id: TS-DC-02

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.7531	30000	NJA
	Unknown Substituted Naphthal	7.0536	25000	J
	Unknown Substituted Naphthal	7.6679	4800	J
	Unknown Substituted Naphthal	7.935	2400	J
	Unknown Substituted Naphthal	11.428	2400	J
	Unknown Organic Acid	13.613	4300	J
	Unknown	14.073	2200	J
	Unknown	14.147	4300	J
	Unknown	14.927	1900	J
	Unknown	15.355	1900	J
	Unknown	18.517	1900	J
	Unknown	19.324	2100	J
	Unknown	23.598	2700	J
	Unknown	25.179	2800	J
	Unknown	25.345	11000	J
	Unknown	25.574	22000	J
	Unknown	26.402	11000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XA103
Dilution factor: 200
Moisture %:

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	75000	J
208-96-8	Acenaphthylene	530000	U
120-12-7	Anthracene	530000	U
56-55-3	Benzo(a)anthracene	530000	U
50-32-8	Benzo(a)pyrene	530000	U
205-99-2	Benzo(b)fluoranthene	530000	U
207-08-9	Benzo(k)fluoranthene	530000	U
191-24-2	Benzo(ghi)perylene	530000	U
111-91-1	bis(2-Chloroethoxy)methane	530000	U
111-44-4	bis(2-Chloroethyl) ether	530000	U
117-81-7	bis(2-Ethylhexyl) phthalate	530000	U
101-55-3	4-Bromophenyl phenyl ether	530000	U
85-68-7	Butyl benzyl phthalate	530000	U
86-74-8	Carbazole	530000	U
106-47-8	4-Chloroaniline	530000	U
59-50-7	4-Chloro-3-methylphenol	530000	U
91-58-7	2-Chloronaphthalene	530000	U
95-57-8	2-Chlorophenol	530000	U
7005-72-3	4-Chlorophenyl phenyl ether	530000	U
218-01-9	Chrysene	530000	U
53-70-3	Dibenz(a,h)anthracene	530000	U
132-64-9	Dibenzofuran	530000	U
95-50-1	1,2-Dichlorobenzene	530000	U
541-73-1	1,3-Dichlorobenzene	530000	U
106-46-7	1,4-Dichlorobenzene	530000	U
91-94-1	3,3'-Dichlorobenzidine	530000	U
120-83-2	2,4-Dichlorophenol	530000	U
84-66-2	Diethyl phthalate	530000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 007
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XA103 Date Extracted:09/08/99
Dilution factor: 200 Date Analyzed: 09/24/99
Moisture %:

QC Batch: 9251394

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	530000	U
131-11-3	Dimethyl phthalate	530000	U
84-74-2	Di-n-butyl phthalate	530000	U
117-84-0	Di-n-octyl phthalate	530000	U
51-28-5	2,4-Dinitrophenol	1300000	U
534-52-1	4,6-Dinitro-2-methylphenol	1300000	U
121-14-2	2,4-Dinitrotoluene	530000	U
606-20-2	2,6-Dinitrotoluene	530000	U
206-44-0	Fluoranthene	530000	U
86-73-7	Fluorene	530000	U
118-74-1	Hexachlorobenzene	530000	U
87-68-3	Hexachlorobutadiene	530000	U
77-47-4	Hexachlorocyclopentadiene	530000	U
67-72-1	Hexachloroethane	530000	U
193-39-5	Indeno(1,2,3-cd)pyrene	530000	U
78-59-1	Isophorone	530000	U
91-57-6	2-Methylnaphthalene	530000	U
95-48-7	2-Methylphenol	530000	U
91-20-3	Naphthalene	530000	U
88-74-4	2-Nitroaniline	1300000	U
99-09-2	3-Nitroaniline	1300000	U
100-01-6	4-Nitroaniline	1300000	U
98-95-3	Nitrobenzene	530000	U
88-75-5	2-Nitrophenol	530000	U
100-02-7	4-Nitrophenol	1300000	U
621-64-7	N-Nitrosodi-n-propylamine	530000	U
86-30-6	N-Nitrosodiphenylamine	530000	U
87-86-5	Pentachlorophenol	1300000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XA103
Dilution factor: 200
Moisture %:

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	530000	U
108-95-2	Phenol	530000	U
129-00-0	Pyrene	530000	U
120-82-1	1,2,4-Trichlorobenzene	530000	U
95-95-4	2,4,5-Trichlorophenol	1300000	U
88-06-2	2,4,6-Trichlorophenol	530000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	530000	U
106-44-5	4-Methylphenol	530000	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XA103
Dilution factor: 200
Moisture %:

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-03

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Cyclic Alkane	7.3052	260000	J
	Unknown	7.4388	270000	J
	Unknown	7.6044	330000	J
	Unknown	8.0959	220000	J
	Unknown	8.1439	810000	J
	Unknown	8.2561	160000	J
	Unknown	8.4431	360000	J
	Unknown	8.5232	1000000	J
	Unknown	9.4047	260000	J
	Unknown	9.5382	310000	J
	Unknown	10.937	210000	J
	Unknown Substituted Naphthal	11.434	580000	J
	Unknown Substituted Naphthal	12.252	340000	J
	Unknown Substituted Naphthal	13.24	120000	J
	Unknown Substituted Naphthal	14.255	190000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD103 Date Extracted:09/08/99
Dilution factor: 50 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	19000	U
208-96-8	Acenaphthylene	19000	U
120-12-7	Anthracene	19000	U
56-55-3	Benzo(a)anthracene	19000	U
50-32-8	Benzo(a)pyrene	19000	U
205-99-2	Benzo(b)fluoranthene	19000	U
207-08-9	Benzo(k)fluoranthene	19000	U
191-24-2	Benzo(ghi)perylene	19000	U
111-91-1	bis(2-Chloroethoxy)methane	19000	U
111-44-4	bis(2-Chloroethyl) ether	19000	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**20000**	
101-55-3	4-Bromophenyl phenyl ether	19000	U
85-68-7	Butyl benzyl phthalate	19000	U
86-74-8	Carbazole	19000	U
106-47-8	4-Chloroaniline	19000	U
59-50-7	4-Chloro-3-methylphenol	19000	U
91-58-7	2-Chloronaphthalene	19000	U
95-57-8	2-Chlorophenol	19000	U
7005-72-3	4-Chlorophenyl phenyl ether	19000	U
218-01-9	Chrysene	19000	U
53-70-3	Dibenz(a,h)anthracene	19000	U
132-64-9	Dibenzofuran	19000	U
95-50-1	1,2-Dichlorobenzene	19000	U
541-73-1	1,3-Dichlorobenzene	19000	U
106-46-7	1,4-Dichlorobenzene	19000	U
91-94-1	3,3'-Dichlorobenzidine	19000	U
120-83-2	2,4-Dichlorophenol	19000	U
84-66-2	Diethyl phthalate	19000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XD103
Dilution factor: 50
Moisture %:14

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	19000	U
131-11-3	Dimethyl phthalate	19000	U
84-74-2	Di-n-butyl phthalate	19000	U
117-84-0	Di-n-octyl phthalate	19000	U
51-28-5	2,4-Dinitrophenol	49000	U
534-52-1	4,6-Dinitro-2-methylphenol	49000	U
121-14-2	2,4-Dinitrotoluene	19000	U
606-20-2	2,6-Dinitrotoluene	19000	U
206-44-0	Fluoranthene	19000	U
86-73-7	Fluorene	19000	U
118-74-1	Hexachlorobenzene	19000	U
87-68-3	Hexachlorobutadiene	19000	U
77-47-4	Hexachlorocyclopentadiene	19000	U
67-72-1	Hexachloroethane	19000	U
193-39-5	Indeno(1,2,3-cd)pyrene	19000	U
78-59-1	Isophorone	19000	U
91-57-6	2-Methylnaphthalene	19000	U
95-48-7	2-Methylphenol	19000	U
91-20-3	Naphthalene	19000	U
88-74-4	2-Nitroaniline	49000	U
99-09-2	3-Nitroaniline	49000	U
100-01-6	4-Nitroaniline	49000	U
98-95-3	Nitrobenzene	19000	U
88-75-5	2-Nitrophenol	19000	U
100-02-7	4-Nitrophenol	49000	U
621-64-7	N-Nitrosodi-n-propylamine	19000	U
86-30-6	N-Nitrosodiphenylamine	19000	U
87-86-5	Pentachlorophenol	49000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD103 Date Extracted:09/08/99
Dilution factor: 50 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	19000	U
108-95-2	**Phenol**	**210000**	
129-00-0	Pyrene	19000	U
120-82-1	1,2,4-Trichlorobenzene	19000	U
95-95-4	2,4,5-Trichlorophenol	49000	U
88-06-2	2,4,6-Trichlorophenol	19000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	19000	U
106-44-5	4-Methylphenol	19000	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD103 Date Extracted:09/08/99
Dilution factor: 50 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.7461	27000	NJA
	Unknown Substituted Benzene	3.3658	7500	J
	Unknown Substituted Benzene	3.9908	12000	J
	Unknown Substituted Benzene	4.0656	49000	J
	Unknown Substituted Benzene	4.1297	18000	J
	Unknown Substituted Benzene	4.3541	59000	J
	Unknown	4.5731	11000	J
	Unknown Substituted Benzene	4.5945	10000	J
	Unknown Alkane	4.6692	7600	J
	Unknown	4.6906	9100	J
	Unknown Branched Alkane	4.8188	11000	J
	Unknown Branched Alkane	4.8829	9500	J
	Unknown Alkane	4.9898	10000	J
	Unknown	5.0859	11000	J
	Unknown	5.4065	22000	J
1124-35-2	Pyridine, 2-ethyl-4,6-dimeth	5.5827	25000	NJ
	Unknown substituted Benzenea	5.7804	28000	J
	Unknown substituted Benzenea	6.2291	280000	J
	Unknown substituted Benzenea	6.8755	10000	J
	Unknown Substituted Benzene	9.6107	5300	J
	Unknown	10.935	6100	J
	Unknown Substituted Phenol	11.026	16000	J
	Unknown	11.117	23000	J
	Unknown Substituted Phenol	11.181	15000	J
	Unknown Substituted Phenol	11.24	9700	J
	Unknown Substituted Phenol	11.341	11000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD103 Date Extracted:09/08/99
Dilution factor: 50 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Substituted Phenol	11.437	8600	J
	Unknown Substituted Phenol	11.528	13000	J
	Unknown Substituted Phenol	11.592	6200	J
	Unknown	11.619	9100	J
	Unknown Substituted Phenol	13.868	23000	J
	Unknown Substituted Phenol	14.151	140000	J
	Unknown Substituted Phenol	14.771	40000	J
606-12-2	Methanone, (2-hydroxyphenyl)	15.39	6000	NJ
	Unknown	15.524	16000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008 DL
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD203 Date Extracted:09/08/99
Dilution factor: 100 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	39000	U
208-96-8	Acenaphthylene	39000	U
120-12-7	Anthracene	39000	U
56-55-3	Benzo(a)anthracene	39000	U
50-32-8	Benzo(a)pyrene	39000	U
205-99-2	Benzo(b)fluoranthene	39000	U
207-08-9	Benzo(k)fluoranthene	39000	U
191-24-2	Benzo(ghi)perylene	39000	U
111-91-1	bis(2-Chloroethoxy)methane	39000	U
111-44-4	bis(2-Chloroethyl) ether	39000	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**19000**	**J**
101-55-3	4-Bromophenyl phenyl ether	39000	U
85-68-7	Butyl benzyl phthalate	39000	U
86-74-8	Carbazole	39000	U
106-47-8	4-Chloroaniline	39000	U
59-50-7	4-Chloro-3-methylphenol	39000	U
91-58-7	2-Chloronaphthalene	39000	U
95-57-8	2-Chlorophenol	39000	U
7005-72-3	4-Chlorophenyl phenyl ether	39000	U
218-01-9	Chrysene	39000	U
53-70-3	Dibenz(a,h)anthracene	39000	U
132-64-9	Dibenzofuran	39000	U
95-50-1	1,2-Dichlorobenzene	39000	U
541-73-1	1,3-Dichlorobenzene	39000	U
106-46-7	1,4-Dichlorobenzene	39000	U
91-94-1	3,3'-Dichlorobenzidine	39000	U
120-83-2	2,4-Dichlorophenol	39000	U
84-66-2	Diethyl phthalate	39000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008 DL

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23XD203

Date Extracted:09/08/99

Dilution factor: 100

Date Analyzed: 09/24/99

Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	39000	U
131-11-3	Dimethyl phthalate	39000	U
84-74-2	Di-n-butyl phthalate	39000	U
117-84-0	Di-n-octyl phthalate	39000	U
51-28-5	2,4-Dinitrophenol	97000	U
534-52-1	4,6-Dinitro-2-methylphenol	97000	U
121-14-2	2,4-Dinitrotoluene	39000	U
606-20-2	2,6-Dinitrotoluene	39000	U
206-44-0	Fluoranthene	39000	U
86-73-7	Fluorene	39000	U
118-74-1	Hexachlorobenzene	39000	U
87-68-3	Hexachlorobutadiene	39000	U
77-47-4	Hexachlorocyclopentadiene	39000	U
67-72-1	Hexachloroethane	39000	U
193-39-5	Indeno(1,2,3-cd)pyrene	39000	U
78-59-1	Isophorone	39000	U
91-57-6	2-Methylnaphthalene	39000	U
95-48-7	2-Methylphenol	39000	U
91-20-3	Naphthalene	39000	U
88-74-4	2-Nitroaniline	97000	U
99-09-2	3-Nitroaniline	97000	U
100-01-6	4-Nitroaniline	97000	U
98-95-3	Nitrobenzene	39000	U
88-75-5	2-Nitrophenol	39000	U
100-02-7	4-Nitrophenol	97000	U
621-64-7	N-Nitrosodi-n-propylamine	39000	U
86-30-6	N-Nitrosodiphenylamine	39000	U
87-86-5	Pentachlorophenol	97000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008 D L

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23XD203

Date Extracted:09/08/99

Dilution factor: 100

Date Analyzed: 09/24/99

Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	39000	U
108-95-2	Phenol	200000	
129-00-0	Pyrene	39000	U
120-82-1	1,2,4-Trichlorobenzene	39000	U
95-95-4	2,4,5-Trichlorophenol	97000	U
88-06-2	2,4,6-Trichlorophenol	39000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	39000	U
106-44-5	4-Methylphenol	39000	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008 DL

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XD203
Dilution factor: 100
Moisture %:14

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: TS-DC-04 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	3.1216	36000	NJA
	Unknown Substituted Benzene	4.1068	12000	J
	Unknown Substituted Benzene	4.1639	45000	J
	Unknown Substituted Benzene	4.2067	16000	J
	Unknown Substituted Benzene	4.3852	53000	J
	Unknown Branched Alkane	4.5494	10000	J
	Unknown Branched Alkane	4.8064	12000	J
	Unknown Alkane	4.8992	11000	J
	Unknown Substituted Benzene	4.5851	12000	J
	Unknown Alkane	4.635	15000	J
	Unknown Branched Alkane	4.7635	18000	J
	Unknown Amine	5.2561	17000	J
	Unknown Substituted Pyridine	5.406	24000	J
	Unknown Amine	5.5845	20000	J
	Unknown Amine	5.9842	230000	J
	Unknown	6.5482	9000	J
	Unknown Substituted Phenol	10.26	14000	J
	Unknown Substituted Phenol	10.338	22000	J
	Unknown Substituted Phenol	10.403	18000	J
	Unknown	10.453	8300	J
	Unknown Substituted Phenol	10.545	9000	J
	Unknown	10.631	10000	J
	Unknown	10.71	15000	J
	Unknown	10.802	8400	J
57-10-3	Hexadecanoic acid	12.551	7800	NJ
	Unknown Substituted Phenol	12.794	20000	J

FORM I - TIC

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I030140 008 0 L
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D23XD203 Date Extracted:09/08/99
Dilution factor: 100 Date Analyzed: 09/24/99
Moisture %:14

QC Batch: 9251394

Client Sample Id: TS-DC-04 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown Substituted Phenol	13.051	140000	J
	Unknown Substituted Phenol	13.601	40000	J
	Unknown	14.286	19000	J

FORM I - TIC

ORIGINAL

OCLP OLM03.1 SURROGATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT QESSDG:

Lot #: C9I030140

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	SRG07	SRG08	TOT OUT
01	TS-AM-01	65	71	55	57	42	55	50	59	00
02	TS-AM-02	75	79	50	56	41	45	50	69	00
03	TS-FD-03	82	83	57	53	20 *	21	29	75	01
04	TS-AM-03	60	63	43	25	4.3*	1.1*	12 *	54	03
05	TS-AM-03 RE-1	36	42	38	31	8.7*	14 *	15 *	35	03
06	TS-DC-03	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
07	TS-DC-04	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
08	TS-DC-04 RE-1 DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
09	TS-DC-01	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
10	TS-DC-01 RE-1 DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
11	TS-DC-02	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	08
12	METHOD BLK. D2N49101	88	97	98	100	73	103	89	82	00
13	METHOD BLK. D27TJ101	70	78	70	78	54	78	72	69	00
14	TS-AM-01 D	65	74	53	61	34	39	49	57	00
15	TS-AM-01 S	70	75	49	55	43	48	49	64	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(23-120)
SRG02	= 2-Fluorobiphenyl	(30-115)
SRG03	= Terphenyl-d14	(18-137)
SRG04	= Phenol-d5	(24-113)
SRG05	= 2-Fluorophenol	(25-121)
SRG06	= 2,4,6-Tribromophenol	(19-122)
SRG07	= 2-Chlorophenol-d4	(20-130)
SRG08	= 1,2-Dichlorobenzene-d4	(20-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level:(low/med) LOW

Lot #: C9I030140 WO #: D23WA108
BATCH: 9251394

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	3270	ND	1520	46	26- 90	
2-Chlorophenol	3270	ND	1520	46	25- 102	
1,4-Dichlorobenzene	2180	ND	1520	70	28- 104	
N-Nitrosodi-n-propylamine	2180	ND	1530	70	41- 126	
1,2,4-Trichlorobenzene	2180	ND	1690	78	38- 107	
4-Chloro-3-methylphenol	3270	ND	1600	49	26- 103	
Acenaphthene	2180	ND	1710	79	31- 137	
4-Nitrophenol	3270	ND	1990	61	11- 114	
2,4-Dinitrotoluene	2180	ND	1670	77	28- 89	
Pentachlorophenol	3270	ND	1730	53	17- 109	
Pyrene	2180	ND	1230	56	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level: (low/med) LOW

Lot #: C9I030140 WO #: D23WA109
BATCH: 9251394

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	3270	1730	52	13	35	26- 90	
2-Chlorophenol	3270	1550	48	2.3	50	25- 102	
1,4-Dichlorobenzene	2180	1460	67	3.9	27	28- 104	
N-Nitrosodi-n-propylamine	2180	1510	69	1.4	38	41- 126	
1,2,4-Trichlorobenzene	2180	1640	75	3.4	23	38- 107	
4-Chloro-3-methylphenol	3270	1820	56	13	33	26- 103	
Acenaphthene	2180	1800	83	5.0	19	31- 137	
4-Nitrophenol	3270	3050	93	42	50	11- 114	
2,4-Dinitrotoluene	2180	1850	85	10	47	28- 89	
Pentachlorophenol	3270	2020	62	16	47	17- 109	
Pyrene	2180	1350	61	9.0	36	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

ORIGINAL

BLANK WORKORDER NO.

D27TJ101

OCLP OLM03.1 METHOD BLANK SUMMARY

Lab Name: QUANTERRA

Lab Code: QESPIT

SDG Number:

Lab File ID: d0924904.

Lot Number: C9I030140

Date Analyzed: 09/24/99

Time Analyzed: 15:23

Matrix: SOLID

Date Extracted:09/08/99

GC Column: HP5MS ID: .25

Extraction Method:

Instrument ID: 721

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TS-AM-01	D23WA107	s0917815.	09/18/99	00:26
02	TS-AM-01	D23WA108 S	s0917813.	09/17/99	23:16
03	TS-AM-01	D23WA109 D	s0923802.	09/24/99	06:59
04	TS-AM-02	D23WH103	s0917816.	09/18/99	01:01
05	TS-FD-03	D23WN103	s0917817.	09/18/99	01:36
06	TS-AM-03	D23WT103	s0917818.	09/18/99	02:10
07	TS-DC-03	D23XA103	s0923804.	09/24/99	04:00
08	TS-DC-04	D23XD103	s0923805.	09/24/99	04:36
09	TS-DC-04 DL	D23XD203	d0924903.	09/24/99	14:51
10	TS-DC-01	D23X1103	s0923803.	09/24/99	03:24
11	TS-DC-01 DL	D23X1203	d0924902.	09/24/99	14:19
12	TS-DC-02	D23X5103	s0923806.	09/24/99	05:12
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I080000 394

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D27TJ101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
50-32-8	Benzo(a)pyrene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U

FORM I

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I080000 394
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D27TJ101 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/24/99
Moisture %:NA

QC Batch: 9251394

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
84-74-2	Di-n-butyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
51-28-5	2,4-Dinitrophenol	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	830	U
99-09-2	3-Nitroaniline	830	U
100-01-6	4-Nitroaniline	830	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	830	U
621-64-7	N-Nitrosodi-n-propylamine	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
87-86-5	Pentachlorophenol	830	U

FORM I

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I080000 394
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D27TJ101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/24/99

QC Batch: 9251394

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
88-06-2	2,4,6-Trichlorophenol	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I080000 394
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D27TJ101 Date Extracted:09/08/99
Dilution factor: 1 Date Analyzed: 09/24/99
Moisture %:NA

QC Batch: 9251394

Client Sample Id: INTRA-LAB BLANK

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

ORIGINAL

BLANK WORKORDER NO.

D2N49101

OCLP OLM03.1 METHOD BLANK SUMMARY

Lab Name: QUANTERRA

Lab Code: QESPIT

SDG Number:

Lab File ID: s0923820.

Lot Number: C9I030140

Date Analyzed: 09/23/99

Time Analyzed: 20:45

Matrix: SOLID

Date Extracted: 09/20/99

GC Column: DB5MS ID: .25

Extraction Method:

Instrument ID: 71

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TS-AM-03 RE	D23WT203	s0923823.	09/24/99	02:47
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I200000 395

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D2N49101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/20/99
Date Analyzed: 09/23/99

QC Batch: 9263395

Client Sample Id: INTRA-LAB BLANK RE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
50-32-8	Benzo(a)pyrene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
117-81-7	bis(2-Ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
86-74-8	Carbazole	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U

FORM I

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I200000 395
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D2N49101 Date Extracted:09/20/99
Dilution factor: 1 Date Analyzed: 09/23/99
Moisture %:NA

QC Batch: 9263395

Client Sample Id: INTRA-LAB BLANK RE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	330	U
131-11-3	Dimethyl phthalate	330	U
84-74-2	Di-n-butyl phthalate	330	U
117-84-0	Di-n-octyl phthalate	330	U
51-28-5	2,4-Dinitrophenol	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	830	U
99-09-2	3-Nitroaniline	830	U
100-01-6	4-Nitroaniline	830	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	830	U
621-64-7	N-Nitrosodi-n-propylamine	330	U
86-30-6	N-Nitrosodiphenylamine	330	U
87-86-5	Pentachlorophenol	830	U

FORM I

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C9I200000 395
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 09/03/99
Work Order: D2N49101 Date Extracted:09/20/99
Dilution factor: 1 Date Analyzed: 09/23/99
Moisture %:NA

QC Batch: 9263395

Client Sample Id: INTRA-LAB BLANK RE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
88-06-2	2,4,6-Trichlorophenol	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U

FORM I

ORIGINAL

WESTON, ROY F.
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number:

Matrix: (soil/water) SOLID
Lab Sample ID:C9I200000 395
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Date Received: 09/03/99
Work Order: D2N49101
Date Extracted:09/20/99
Dilution factor: 1
Date Analyzed: 09/23/99
Moisture %:NA

QC Batch: 9263395

Client Sample Id: INTRA-LAB BLANK RE

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	None			

FORM I - TIC

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): S0917CC1 Date Analyzed: 09/17/99

Instrument ID: 71 Time Analyzed: 1542

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	272834	4.86	1076592	6.36	562778	9.34
	UPPER LIMIT	545668	5.36	2153184	6.86	1125556	9.84
	LOWER LIMIT	136417	4.36	538296	5.86	281389	8.84
	EPA SAMPLE NO.						
01	TS-AM-01MS	263752	4.87	967489	6.36	472154	9.33
02	TS-AM-01	224212	4.86	857768	6.34	455479	9.32
03	TS-AM-02	268583	4.87	978655	6.36	474979	9.33
04	TS-FD-03	254778	4.88	926806	6.36	481661	9.32
05	TS-AM-03	265392	4.86	969606	6.35	482703	9.32
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ORIGINAL

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): S0917CC1 Date Analyzed: 09/17/99

Instrument ID: 71 Time Analyzed: 1542

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	877963	12.61	569153	19.22	408911	22.57
	UPPER LIMIT	1755926	13.11	1138306	19.72	817822	23.07
	LOWER LIMIT	438982	12.11	284576	18.72	204456	22.07
	EPA SAMPLE NO.						
01	TS-AM-01MS	676614	12.61	878885	19.24	782918	22.64
02	TS-AM-01	738433	12.58	868544	19.24	592478	22.65
03	TS-AM-02	684197	12.61	823445	19.22	761893	22.58
04	TS-FD-03	703927	12.60	817366	19.20	784941	22.57
05	TS-AM-03	731548	12.59	903731	19.20	714062	22.56
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): K0923CCC Date Analyzed: 09/23/99

Instrument ID: 71 Time Analyzed: 2009

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	95249	4.50	353632	5.90	201555	8.73
	UPPER LIMIT	190498	5.00	707264	6.40	403110	9.23
	LOWER LIMIT	47624	4.00	176816	5.40	100778	8.23
	EPA SAMPLE NO.						
RE 01	INTRA-LAB BL	108621	4.49	430736	5.89	240917	8.72
02	TS-AM-03 RE	71834	4.52	321407	5.91	173322	8.73
03	TS-DC-01	74242	4.50	316185	5.90	165097	8.72
04	TS-DC-03	80072	4.50	326592	5.90	131885	8.73
05	TS-DC-04	73280	4.50	279915	5.90	174035	8.72
06	TS-DC-02	80315	4.51	339730	5.91	191184	8.73
07	TS-AM-01 MSD	79714	4.50	309969	5.89	172390	8.71
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ORIGINAL

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): K0923CCC Date Analyzed: 09/23/99

Instrument ID: 71 Time Analyzed: 2009

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	368048	11.92	300823	18.45	223195	21.77
	UPPER LIMIT	736096	12.42	601646	18.95	446390	22.27
	LOWER LIMIT	184024	11.42	150412	17.95	111598	21.27
	EPA SAMPLE NO.						
RE 01	INTRA-LAB BL	448314	11.90	397553	18.44	332318	21.77
02	TS-AM-03 RE	285320	11.92	197863	18.47	220568	21.80
03	TS-DC-01	271381	11.91	205364	18.44	214153	21.78
04	TS-DC-03	211196	11.93	209772	18.48	224776	21.81
05	TS-DC-04	288498	11.91	212974	18.45	217699	21.78
06	TS-DC-02	343473	11.92	218100	18.46	230420	21.80
07	TS-AM-01MSD	253536	11.90	278864	18.48	314359	21.85
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ORIGINAL

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): D0924CCC Date Analyzed: 09/24/99

Instrument ID: 721 Time Analyzed: 1308

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	107331	4.50	386491	5.70	200347	8.23
	UPPER LIMIT	214662	5.00	772982	6.20	400694	8.73
	LOWER LIMIT	53666	4.00	193246	5.20	100174	7.73
	EPA SAMPLE NO.						
01	TS-DC-01DL	92477	4.50	355376	5.70	176252	8.22
02	TS-DC-04DL	93735	4.51	341171	5.71	181313	8.23
03	INTRA-LAB BL	92755	4.51	361763	5.70	183416	8.23
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII SV-1 OLM03.0

ORIGINAL

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab File ID (Standard): D0924CCC Date Analyzed: 09/24/99

Instrument ID: 721 Time Analyzed: 1308

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	355778	11.09	242022	16.92	192429	19.87
	UPPER LIMIT	711556	11.59	484044	17.42	384858	20.37
	LOWER LIMIT	177889	10.59	121011	16.42	96214	19.37
	EPA SAMPLE NO.						
01	TS-DC-01DL	308517	11.09	263759	16.92	280392	19.89
02	TS-DC-04DL	310468	11.09	282775	16.92	279643	19.89
03	INTRA-LAB BL	343979	11.08	301943	16.91	278860	19.88
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

ORIGINAL

PESTICIDES / PCB'S

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 001

Sample WT/Vol: 30 / g
Work Order: D23WA101
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.2	U
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	4.3	U
50-29-3	4,4'-DDT	4.3	U
60-57-1	Dieldrin	4.3	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
53494-70-5	Endrin ketone	2.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
72-43-5	Methoxychlor	22	U
12674-11-2	Aroclor 1016	43	U
11104-28-2	Aroclor 1221	88	U
11141-16-5	Aroclor 1232	43	U
53469-21-9	Aroclor 1242	43	U
12672-29-6	Aroclor 1248	43	U
11097-69-1	Aroclor 1254	43	U
11096-82-5	Aroclor 1260	43	U
8001-35-2	Toxaphene	220	U

FORM I

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 001

Sample WT/Vol: 30 / g
Work Order: D23WA102
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	12.8	
58-89-9	gamma-BHC (Lindane)	9.16	a
50-29-3	4,4'-DDT	23.6	
60-57-1	Dieldrin	28.8	
72-20-8	Endrin	30.1	
76-44-8	Heptachlor	13.0	

FORM I

ORIGINAL

WESTON, ROY F.
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 001

Sample WT/Vol: 30 / g
Work Order: D23WA103
Dilution factor: 1
Moisture %:24

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-AM-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	12.4	
58-89-9	gamma-BHC (Lindane)	9.03	a
50-29-3	4,4'-DDT	22.2	
60-57-1	Dieldrin	27.5	
72-20-8	Endrin	28.8	
76-44-8	Heptachlor	12.6	

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 002

Sample WT/Vol: 30 / g
Work Order: D23WH101
Dilution factor: 1
Moisture %:26

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-AM-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.3	U
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
72-54-8	4,4'-DDD	4.4	U
72-55-9	4,4'-DDE	4.4	U
50-29-3	4,4'-DDT	4.4	U
60-57-1	Dieldrin	4.4	U
959-98-8	Endosulfan I	2.3	U
33213-65-9	Endosulfan II	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
72-20-8	Endrin	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
53494-70-5	Endrin ketone	2.3	U
76-44-8	Heptachlor	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
72-43-5	Methoxychlor	23	U
12674-11-2	Aroclor 1016	44	U
11104-28-2	Aroclor 1221	90	U
11141-16-5	Aroclor 1232	44	U
53469-21-9	Aroclor 1242	44	U
12672-29-6	Aroclor 1248	44	U
11097-69-1	Aroclor 1254	44	U
11096-82-5	Aroclor 1260	44	U
8001-35-2	Toxaphene	230	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 003

Sample WT/Vol: 30 / g
Work Order: D23WN101
Dilution factor: 1
Moisture %:25

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-FD-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.3	U
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
72-54-8	4,4'-DDD	4.4	U
72-55-9	4,4'-DDE	4.4	U
50-29-3	4,4'-DDT	4.4	U
60-57-1	Dieldrin	4.4	U
959-98-8	Endosulfan I	2.3	U
33213-65-9	Endosulfan II	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
72-20-8	Endrin	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
53494-70-5	Endrin ketone	2.3	U
76-44-8	Heptachlor	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
72-43-5	Methoxychlor	23	U
12674-11-2	Aroclor 1016	44	U
11104-28-2	Aroclor 1221	89	U
11141-16-5	Aroclor 1232	44	U
53469-21-9	Aroclor 1242	44	U
12672-29-6	Aroclor 1248	44	U
11097-69-1	Aroclor 1254	44	U
11096-82-5	Aroclor 1260	44	U
8001-35-2	Toxaphene	230	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID: C9I030140 004

Sample WT/Vol: 30 / g
Work Order: D23WT101
Dilution factor: 1
Moisture %: 24

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: TS-AM-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	2.2	U
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
5103-71-9	**alpha-Chlordane**	**1.1**	**J**
5103-74-2	gamma-Chlordane	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	4.3	U
50-29-3	4,4'-DDT	4.3	U
60-57-1	Dieldrin	4.3	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
53494-70-5	Endrin ketone	2.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
72-43-5	Methoxychlor	22	U
12674-11-2	Aroclor 1016	43	U
11104-28-2	Aroclor 1221	88	U
11141-16-5	Aroclor 1232	43	U
53469-21-9	Aroclor 1242	43	U
12672-29-6	Aroclor 1248	43	U
11097-69-1	Aroclor 1254	43	U
11096-82-5	Aroclor 1260	43	U
8001-35-2	Toxaphene	220	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID: C9I030140 005

Sample WT/Vol: 30 / g
Work Order: D23X1101
Dilution factor: 100
Moisture %: 5.7

Date Received: 09/03/99
Date Extracted: 09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	180	U
319-84-6	alpha-BHC	180	U
319-85-7	beta-BHC	180	U
319-86-8	delta-BHC	180	U
58-89-9	gamma-BHC (Lindane)	180	U
5103-71-9	alpha-Chlordane	180	U
5103-74-2	gamma-Chlordane	180	U
72-54-8	4,4'-DDD	350	U
72-55-9	4,4'-DDE	350	U
50-29-3	4,4'-DDT	350	U
60-57-1	Dieldrin	350	U
959-98-8	Endosulfan I	180	U
33213-65-9	Endosulfan II	350	U
1031-07-8	Endosulfan sulfate	350	U
72-20-8	Endrin	350	U
7421-93-4	Endrin aldehyde	350	U
53494-70-5	Endrin ketone	180	U
76-44-8	Heptachlor	180	U
1024-57-3	Heptachlor epoxide	180	U
72-43-5	Methoxychlor	1800	U
12674-11-2	Aroclor 1016	3500	U
11104-28-2	Aroclor 1221	7100	U
11141-16-5	Aroclor 1232	3500	U
53469-21-9	Aroclor 1242	3500	U
12672-29-6	Aroclor 1248	3500	U
11097-69-1	Aroclor 1254	3500	U
11096-82-5	Aroclor 1260	3500	U
8001-35-2	Toxaphene	18000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 005

Sample WT/Vol: 30 / g
Work Order: D23X1201
Dilution factor: 1000
Moisture %:5.7

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-01 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1800	U
319-84-6	alpha-BHC	1800	U
319-85-7	beta-BHC	1800	U
319-86-8	delta-BHC	1800	U
58-89-9	gamma-BHC (Lindane)	1800	U
5103-71-9	alpha-Chlordane	1800	U
5103-74-2	gamma-Chlordane	1800	U
72-54-8	4,4'-DDD	3500	U
72-55-9	4,4'-DDE	3500	U
50-29-3	4,4'-DDT	3500	U
60-57-1	Dieldrin	3500	U
959-98-8	Endosulfan I	1800	U
33213-65-9	Endosulfan II	3500	U
1031-07-8	Endosulfan sulfate	3500	U
72-20-8	Endrin	3500	U
7421-93-4	Endrin aldehyde	3500	U
53494-70-5	Endrin ketone	1800	U
76-44-8	Heptachlor	1800	U
1024-57-3	Heptachlor epoxide	1800	U
72-43-5	Methoxychlor	18000	U
12674-11-2	Aroclor 1016	35000	U
11104-28-2	Aroclor 1221	71000	U
11141-16-5	Aroclor 1232	35000	U
53469-21-9	Aroclor 1242	35000	U
12672-29-6	Aroclor 1248	35000	U
11097-69-1	Aroclor 1254	35000	U
11096-82-5	Aroclor 1260	35000	U
8001-35-2	Toxaphene	180000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 006

Sample WT/Vol: 30 / g
Work Order: D23X5101
Dilution factor: 5
Moisture %:9.3

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	9.4	U
319-84-6	alpha-BHC	9.4	U
319-85-7	beta-BHC	9.4	U
319-86-8	delta-BHC	9.4	U
58-89-9	gamma-BHC (Lindane)	9.4	U
5103-71-9	alpha-Chlordane	9.4	U
5103-74-2	gamma-Chlordane	9.4	U
72-54-8	4,4'-DDD	18	U
72-55-9	**4,4'-DDE**	**13**	**J P**
50-29-3	**4,4'-DDT**	**14**	**J P**
60-57-1	Dieldrin	18	U
959-98-8	Endosulfan I	9.4	U
33213-65-9	Endosulfan II	18	U
1031-07-8	Endosulfan sulfate	18	U
72-20-8	**Endrin**	**20**	
7421-93-4	Endrin aldehyde	18	U
53494-70-5	Endrin ketone	9.4	U
76-44-8	Heptachlor	9.4	U
1024-57-3	Heptachlor epoxide	9.4	U
72-43-5	Methoxychlor	94	U
12674-11-2	Aroclor 1016	180	U
11104-28-2	Aroclor 1221	370	U
11141-16-5	Aroclor 1232	180	U
53469-21-9	Aroclor 1242	180	U
12672-29-6	Aroclor 1248	180	U
11097-69-1	Aroclor 1254	180	U
11096-82-5	Aroclor 1260	180	U
8001-35-2	Toxaphene	940	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 006

Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23X5201
Dilution factor: 50
Moisture %:9.3

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-02 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	94	U
319-84-6	alpha-BHC	94	U
319-85-7	beta-BHC	94	U
319-86-8	delta-BHC	94	U
58-89-9	gamma-BHC (Lindane)	94	U
5103-71-9	alpha-Chlordane	94	U
5103-74-2	gamma-Chlordane	94	U
72-54-8	4,4'-DDD	180	U
72-55-9	4,4'-DDE	180	U
50-29-3	4,4'-DDT	180	U
60-57-1	Dieldrin	180	U
959-98-8	Endosulfan I	94	U
33213-65-9	Endosulfan II	180	U
1031-07-8	Endosulfan sulfate	180	U
72-20-8	Endrin	180	U
7421-93-4	Endrin aldehyde	180	U
53494-70-5	Endrin ketone	94	U
76-44-8	Heptachlor	94	U
1024-57-3	Heptachlor epoxide	94	U
72-43-5	Methoxychlor	940	U
12674-11-2	Aroclor 1016	1800	U
11104-28-2	Aroclor 1221	3700	U
11141-16-5	Aroclor 1232	1800	U
53469-21-9	Aroclor 1242	1800	U
12672-29-6	Aroclor 1248	1800	U
11097-69-1	Aroclor 1254	1800	U
11096-82-5	Aroclor 1260	1800	U
8001-35-2	Toxaphene	9400	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23XA101

Date Extracted:09/08/99

Dilution factor: 100

Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	170	U
319-84-6	alpha-BHC	170	U
319-85-7	beta-BHC	170	U
319-86-8	delta-BHC	170	U
58-89-9	gamma-BHC (Lindane)	170	U
5103-71-9	alpha-Chlordane	170	U
5103-74-2	gamma-Chlordane	170	U
72-54-8	4,4'-DDD	330	U
72-55-9	4,4'-DDE	330	U
50-29-3	4,4'-DDT	330	U
60-57-1	Dieldrin	330	U
959-98-8	Endosulfan I	170	U
33213-65-9	Endosulfan II	330	U
1031-07-8	Endosulfan sulfate	330	U
72-20-8	Endrin	330	U
7421-93-4	Endrin aldehyde	330	U
53494-70-5	Endrin ketone	170	U
76-44-8	Heptachlor	170	U
1024-57-3	Heptachlor epoxide	170	U
72-43-5	Methoxychlor	1700	U
12674-11-2	Aroclor 1016	3300	U
11104-28-2	Aroclor 1221	6700	U
11141-16-5	Aroclor 1232	3300	U
53469-21-9	Aroclor 1242	3300	U
12672-29-6	Aroclor 1248	3300	U
11097-69-1	Aroclor 1254	3300	U
11096-82-5	Aroclor 1260	3300	U
8001-35-2	Toxaphene	17000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 007

Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 09/03/99

Work Order: D23XA201

Date Extracted:09/08/99

Dilution factor: 1000

Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-03 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1700	U
319-84-6	alpha-BHC	1700	U
319-85-7	beta-BHC	1700	U
319-86-8	delta-BHC	1700	U
58-89-9	gamma-BHC (Lindane)	1700	U
5103-71-9	alpha-Chlordane	1700	U
5103-74-2	gamma-Chlordane	1700	U
72-54-8	4,4'-DDD	3300	U
72-55-9	4,4'-DDE	3300	U
50-29-3	4,4'-DDT	3300	U
60-57-1	Dieldrin	3300	U
959-98-8	Endosulfan I	1700	U
33213-65-9	Endosulfan II	3300	U
1031-07-8	Endosulfan sulfate	3300	U
72-20-8	Endrin	3300	U
7421-93-4	Endrin aldehyde	3300	U
53494-70-5	Endrin ketone	1700	U
76-44-8	Heptachlor	1700	U
1024-57-3	Heptachlor epoxide	1700	U
72-43-5	Methoxychlor	17000	U
12674-11-2	Aroclor 1016	33000	U
11104-28-2	Aroclor 1221	67000	U
11141-16-5	Aroclor 1232	33000	U
53469-21-9	Aroclor 1242	33000	U
12672-29-6	Aroclor 1248	33000	U
11097-69-1	Aroclor 1254	33000	U
11096-82-5	Aroclor 1260	33000	U
8001-35-2	Toxaphene	170000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I030140 008

Sample WT/Vol: 30 / g
Work Order: D23XD101
Dilution factor: 10
Moisture %:14

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/17/99

QC Batch: 9251393

Client Sample Id: TS-DC-04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	20	U
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
72-54-8	4,4'-DDD	39	U
72-55-9	4,4'-DDE	39	U
50-29-3	4,4'-DDT	39	U
60-57-1	Dieldrin	39	U
959-98-8	Endosulfan I	20	U
33213-65-9	Endosulfan II	39	U
1031-07-8	Endosulfan sulfate	39	U
72-20-8	Endrin	39	U
7421-93-4	**Endrin aldehyde**	**26**	**J**
53494-70-5	Endrin ketone	20	U
76-44-8	Heptachlor	20	U
1024-57-3	**Heptachlor epoxide**	**15**	**J** P
72-43-5	Methoxychlor	200	U
12674-11-2	Aroclor 1016	390	U
11104-28-2	Aroclor 1221	780	U
11141-16-5	Aroclor 1232	390	U
53469-21-9	Aroclor 1242	390	U
12672-29-6	Aroclor 1248	390	U
11097-69-1	Aroclor 1254	390	U
11096-82-5	Aroclor 1260	390	U
8001-35-2	Toxaphene	2000	U

FORM I

ORIGINAL

WESTON, ROY F.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:C9I030140 008

Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: D23XD201
Dilution factor: 100
Moisture %:14

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251393

Client Sample Id: TS-DC-04 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	200	U
319-84-6	alpha-BHC	200	U
319-85-7	beta-BHC	200	U
319-86-8	delta-BHC	200	U
58-89-9	gamma-BHC (Lindane)	200	U
5103-71-9	alpha-Chlordane	200	U
5103-74-2	gamma-Chlordane	200	U
72-54-8	4,4'-DDD	390	U
72-55-9	4,4'-DDE	390	U
50-29-3	4,4'-DDT	390	U
60-57-1	Dieldrin	390	U
959-98-8	Endosulfan I	200	U
33213-65-9	Endosulfan II	390	U
1031-07-8	Endosulfan sulfate	390	U
72-20-8	Endrin	390	U
7421-93-4	Endrin aldehyde	390	U
53494-70-5	Endrin ketone	200	U
76-44-8	Heptachlor	200	U
1024-57-3	Heptachlor epoxide	200	U
72-43-5	Methoxychlor	2000	U
12674-11-2	Aroclor 1016	3900	U
11104-28-2	Aroclor 1221	7800	U
11141-16-5	Aroclor 1232	3900	U
53469-21-9	Aroclor 1242	3900	U
12672-29-6	Aroclor 1248	3900	U
11097-69-1	Aroclor 1254	3900	U
11096-82-5	Aroclor 1260	3900	U
8001-35-2	Toxaphene	20000	U

FORM I

ORIGINAL

WESTON, ROY F.
CHECK SAMPLE COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I080000 393

Sample WT/Vol: 30 / g
Work Order: D27TH102
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/16/99

QC Batch: 9251393

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	14.0	
58-89-9	gamma-BHC (Lindane)	14.0	
50-29-3	4,4'-DDT	28.0	
60-57-1	Dieldrin	30.0	
72-20-8	Endrin	28.0	
76-44-8	Heptachlor	14.0	

FORM I

ORIGINAL

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	LCS1	86	84	89	97			0
02	TS-AM-01MS	72	84	93	122			0
03	TS-AM-01MSD	68	82	78	112			0
04	TS-AM-01	59	73	72	79			0
05	TS-AM-02	66	76	72	87			0
06	TS-FD-03	70	77	83	97			0
07	TS-AM-03	68	74	95	114			0
08	TS-DC-01	47 D	0* D	0* D	0* D	D		03
09	TS-DC-01	10* D	0* D	0* D	0* D	D		04
10	TS-DC-02	47 D	19* D	26* D	26* D	D		03
11	TS-DC-02	9* D	2* D	3* D	6* D	D		04
12	TS-DC-03	11* D	0* D	0* D	5* D	D		04
13	TS-DC-03	2* D	0* D	0* D	0* D	D		04
14	TS-DC-04	18* D	6* D	9* D	19* D	D		04
15	TS-DC-04	7* D	0* D	1* D	0* D	D		04
16	PBLK1	78	91	99	108			0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

VM 9/21/99

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

ORIGINAL

OCLP OLM03.1 CHECK SAMPLE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Lot #: C9I080000 WO #: D27TH102
BATCH: 9251393

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aldrin	17.0	14.0	82	34 - 132	
Dieldrin	33.0	30.0	91	42 - 139	
Endrin	33.0	28.0	85	31 - 134	
gamma-BHC (Lindane)	17.0	14.0	82	46 - 127	
4,4'-DDT	33.0	28.0	85	23 - 134	
Heptachlor	17.0	14.0	82	35 - 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level: (low/med) LOW

Lot #: C9I030140 WO #: D23WA102
BATCH: 9251393

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aldrin	22.2	ND	12.8	58	34- 132	
Dieldrin	43.2	ND	28.8	67	42- 139	
Endrin	43.2	ND	30.1	70	31- 134	
gamma-BHC (Lindane)	22.2	ND	9.16	41*	46- 127	a
4,4'-DDT	43.2	ND	23.6	55	23- 134	
Heptachlor	22.2	ND	13.0	58	35- 130	

NOTES (S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 6 outside limits

COMMENTS:

FORM III

ORIGINAL

OCLP OLM03.1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QUANTERRA Client: WESTON, ROY F.

Lab Code: QESPIT SDG No:

Matrix Spike ID: TS-AM-01 Level:(low/med) LOW

Lot #: C9I030140 WO #: D23WA103
BATCH: 9251393

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aldrin	22.2	12.4	56	3.1	43	34- 132	
Dieldrin	43.2	27.5	64	4.6	45	42- 139	
Endrin	43.2	28.8	67	4.4	38	31- 134	
gamma-BHC (Lindane)	22.2	9.03	41*	1.4	50	46- 127	a
4,4'-DDT	43.2	22.2	52	5.7	50	23- 134	
Heptachlor	22.2	12.6	56	3.1	31	35- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 1 out of 6 outside limits

COMMENTS:

FORM III

ORIGINAL

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: QUANTERRA, PITTSBURGH Contract:

Lab Code: QESPIT Case No.: SAS No.: 40325 SDG No.: C9I030140

Lab Sample ID: D27TH101 Lab File ID: D-A3515

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SW3550

Sulfur Cleanup (Y/N) N Date Extracted: 09/08/99

Date Analyzed (1): 09/18/99 Date Analyzed (2): 09/18/99

Time Analyzed (1): 0043 Time Analyzed (2): 0043

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS1	D27TH102	09/16/99	09/16/99
02	TS-AM-01MS	D23WA102	09/16/99	09/16/99
03	TS-AM-01MSD	D23WA103	09/16/99	09/16/99
04	TS-AM-01	D23WA101	09/16/99	09/16/99
05	TS-AM-02	D23WH101	09/16/99	09/16/99
06	TS-FD-03	D23WN101	09/16/99	09/16/99
07	TS-AM-03	D23WT101	09/16/99	09/16/99
08	TS-DC-01	D23X1101	09/17/99	09/17/99
09	TS-DC-01	D23X1201	09/17/99	09/17/99
10	TS-DC-02	D23X5101	09/17/99	09/17/99
11	TS-DC-02	D23X5201	09/17/99	09/17/99
12	TS-DC-03	D23XA101	09/17/99	09/17/99
13	TS-DC-03	D23XA201	09/17/99	09/17/99
14	TS-DC-04	D23XD101	09/17/99	09/17/99
15	TS-DC-04	D23XD201	09/18/99	09/18/99
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

ORIGINAL

WESTON, ROY F.
METHOD BLANK COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Pesticides/PCB (CLP-OLM03.1)

Lab Sample ID:C9I080000 393

Sample WT/Vol: 30 / g
Work Order: D27TH101
Dilution factor: 1
Moisture %:NA

Date Received: 09/03/99
Date Extracted:09/08/99
Date Analyzed: 09/18/99

QC Batch: 9251393

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
53494-70-5	Endrin ketone	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
72-43-5	Methoxychlor	17	U
12674-11-2	Aroclor 1016	33	U
11104-28-2	Aroclor 1221	67	U
11141-16-5	Aroclor 1232	33	U
53469-21-9	Aroclor 1242	33	U
12672-29-6	Aroclor 1248	33	U
11097-69-1	Aroclor 1254	33	U
11096-82-5	Aroclor 1260	33	U
8001-35-2	Toxaphene	170	U

FORM I

ORIGINAL

METALS

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.2	52.3	46500		1	ICP	9/22/99	15:37
Antimony	220.35	0.45	15.7	0.45	UN	1	ICPST	9/24/99	6:00
Arsenic	189.04	0.29	2.6	8.9		1	ICPST	9/24/99	6:00
Barium	493.41	0.086	52.3	1610	N	1	ICP	9/22/99	15:37
Beryllium	313.04	0.026	1.3	0.53	B	1	ICP	9/22/99	15:37
Cadmium	228.80	0.84	1.3	7.5		1	ICP	9/22/99	15:37
Calcium	317.93	4.5	1310	38000		1	ICP	9/22/99	15:37
Chromium	267.72	0.6	2.6	56.1	N	1	ICP	9/22/99	15:37
Cobalt	228.62	0.68	13.1	7.7	B	1	ICP	9/22/99	15:37
Copper	324.75	0.25	6.5	233	N	1	ICP	9/22/99	15:37
Iron	259.94	2	26.2	13000	R	1	ICP	9/22/99	15:37
Lead	220.35	0.26	0.79	593		1	ICPST	9/24/99	6:00
Magnesium	279.08	4.4	1310	5620		1	ICP	9/22/99	15:37
Manganese	257.61	0.22	3.9	143	N	1	ICP	9/22/99	15:37
Nickel	231.60	1.7	10.5	35		1	ICP	9/22/99	15:37
Potassium	766.49	76.2	1310	957	B	1	ICP	9/22/99	15:37
Selenium	220.35	0.63	1.3	0.74	B	1	ICPST	9/24/99	6:00
Silver	328.07	0.58	2.6	0.58	U	1	ICP	9/22/99	15:37
Sodium	589	1.7	1310	1320		1	ICP	9/22/99	15:37
Thallium	190.86	0.97	2.6	0.97	U	1	ICPST	9/24/99	6:00
Vanadium	292.40	0.76	13.1	65.6		1	ICP	9/22/99	15:37
Zinc	213.86	0.65	5.2	13400		1	ICP	9/22/99	15:37

Comments: C9I030140001 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-FINE POST-FINE

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WH **Client ID:** TS-AM-02

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 25.54

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.4	53.7	39000		1	ICP	9/22/99	15:50
Antimony	220.35	0.46	16.1	1	BN	1	ICPST	9/24/99	6:16
Arsenic	189.04	0.3	2.7	26		1	ICPST	9/24/99	6:16
Barium	493.41	0.089	53.7	6270	N	1	ICP	9/22/99	15:50
Beryllium	313.04	0.027	1.3	0.79	B	1	ICP	9/22/99	15:50
Cadmium	228.80	0.86	1.3	2.9		1	ICP	9/22/99	15:50
Calcium	317.93	4.6	1340	89500		1	ICP	9/22/99	15:50
Chromium	267.72	0.62	2.7	72.1	N	1	ICP	9/22/99	15:50
Cobalt	228.62	0.7	13.4	14.6		1	ICP	9/22/99	15:50
Copper	324.75	0.26	6.7	71.9	N	1	ICP	9/22/99	15:50
Iron	259.94	2	26.9	17500	R	1	ICP	9/22/99	15:50
Lead	220.35	0.27	0.81	383		1	ICPST	9/24/99	6:16
Magnesium	279.08	4.5	1340	4240		1	ICP	9/22/99	15:50
Manganese	257.61	0.22	4	431	N	1	ICP	9/22/99	15:50
Nickel	231.60	1.8	10.7	22.2		1	ICP	9/22/99	15:50
Potassium	766.49	78.2	1340	2140		1	ICP	9/22/99	15:50
Selenium	220.35	0.65	1.3	0.65	U	1	ICPST	9/24/99	6:16
Silver	328.07	0.59	2.7	0.59	U	1	ICP	9/22/99	15:50
Sodium	589	1.8	1340	984	B	1	ICP	9/22/99	15:50
Thallium	190.86	0.99	2.7	0.99	U	1	ICPST	9/24/99	6:16
Vanadium	292.40	0.78	13.4	67.3		1	ICP	9/22/99	15:50
Zinc	213.86	0.67	5.4	10500		1	ICP	9/22/99	15:50

Comments: C9I030140002 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-MEDIUM POST-MEDIUM

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WN **Client ID:** TS-FD-03

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 24.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.3	53	35400		1	ICP	9/22/99	15:53
Antimony	220.35	0.45	15.9	0.59	BN	1	ICPST	9/24/99	6:20
Arsenic	189.04	0.29	2.7	26.4		1	ICPST	9/24/99	6:20
Barium	493.41	0.088	53	3510	N	1	ICP	9/22/99	15:53
Beryllium	313.04	0.027	1.3	0.82	B	1	ICP	9/22/99	15:53
Cadmium	228.80	0.85	1.3	2.7		1	ICP	9/22/99	15:53
Calcium	317.93	4.5	1330	68600		1	ICP	9/22/99	15:53
Chromium	267.72	0.61	2.7	79.3	N	1	ICP	9/22/99	15:53
Cobalt	228.62	0.69	13.3	14		1	ICP	9/22/99	15:53
Copper	324.75	0.26	6.6	70.9	N	1	ICP	9/22/99	15:53
Iron	259.94	2	26.5	18800	R	1	ICP	9/22/99	15:53
Lead	220.35	0.27	0.8	911		1	ICPST	9/24/99	6:20
Magnesium	279.08	4.4	1330	3890		1	ICP	9/22/99	15:53
Manganese	257.61	0.22	4	349	N	1	ICP	9/22/99	15:53
Nickel	231.60	1.8	10.6	23		1	ICP	9/22/99	15:53
Potassium	766.49	77.2	1330	2130		1	ICP	9/22/99	15:53
Selenium	220.35	0.64	1.3	0.64	U	1	ICPST	9/24/99	6:20
Silver	328.07	0.58	2.7	0.58	U	1	ICP	9/22/99	15:53
Sodium	589	1.7	1330	967	B	1	ICP	9/22/99	15:53
Thallium	190.86	0.98	2.7	1.2	B	1	ICPST	9/24/99	6:20
Vanadium	292.40	0.77	13.3	64.2		1	ICP	9/22/99	15:53
Zinc	213.86	0.66	5.3	8850		1	ICP	9/22/99	15:53

Comments: C9I030140003 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-MEDIUM POST-MEDIUM

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WT **Client ID:** TS-AM-03

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.71

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	4.3	52.4	4630		1	ICP	9/22/99	15:56
Antimony	220.35	0.45	15.7	1.3	BN	1	ICPST	9/24/99	6:25
Arsenic	189.04	0.29	2.6	13.1		1	ICPST	9/24/99	6:25
Barium	493.41	0.087	52.4	96.6	N	1	ICP	9/22/99	15:56
Beryllium	313.04	0.026	1.3	0.78	B	1	ICP	9/22/99	15:56
Cadmium	228.80	0.84	1.3	0.84	U	1	ICP	9/22/99	15:56
Calcium	317.93	22.3	6550	380000		5	ICP	9/22/99	16:17
Chromium	267.72	0.6	2.6	27.7	N	1	ICP	9/22/99	15:56
Cobalt	228.62	0.68	13.1	9	B	1	ICP	9/22/99	15:56
Copper	324.75	0.25	6.6	544	N	1	ICP	9/22/99	15:56
Iron	259.94	2	26.2	13200	R	1	ICP	9/22/99	15:56
Lead	220.35	1.3	3.9	2570		5	ICPST	9/24/99	7:07
Magnesium	279.08	4.4	1310	790	B	1	ICP	9/22/99	15:56
Manganese	257.61	0.22	3.9	89.7	N	1	ICP	9/22/99	15:56
Nickel	231.60	1.7	10.5	11.4		1	ICP	9/22/99	15:56
Potassium	766.49	76.3	1310	182	B	1	ICP	9/22/99	15:56
Selenium	220.35	0.63	1.3	3.9		1	ICPST	9/24/99	6:25
Silver	328.07	0.58	2.6	0.58	U	1	ICP	9/22/99	15:56
Sodium	589	1.7	1310	123	B	1	ICP	9/22/99	15:56
Thallium	190.86	0.97	2.6	0.97	U	1	ICPST	9/24/99	6:25
Vanadium	292.40	0.76	13.1	9.7	B	1	ICP	9/22/99	15:56
Zinc	213.86	0.66	5.2	776		1	ICP	9/22/99	15:56

Comments: C9I030140004 COLOR:PRE-WHITE POST-WHITE TEXTURE:PRE-FINE POST-FINE

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23X1 **Client ID:** TS-DC-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 5.73

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	3.4	42.4	1150		1	ICP	9/22/99	15:59
Antimony	220.35	0.36	12.7	0.36	UN	1	ICPST	9/24/99	6:30
Arsenic	189.04	0.23	2.1	5.1		1	ICPST	9/24/99	6:30
Barium	493.41	0.07	42.4	17.3	BN	1	ICP	9/22/99	15:59
Beryllium	313.04	0.021	1.1	0.051	B	1	ICP	9/22/99	15:59
Cadmium	228.80	0.68	1.1	2		1	ICP	9/22/99	15:59
Calcium	317.93	3.6	1060	564	B	1	ICP	9/22/99	15:59
Chromium	267.72	0.49	2.1	7.9	N	1	ICP	9/22/99	15:59
Cobalt	228.62	0.55	10.6	3.5	B	1	ICP	9/22/99	15:59
Copper	324.75	0.2	5.3	16.5	N	1	ICP	9/22/99	15:59
Iron	259.94	1.6	21.2	10300	R	1	ICP	9/22/99	15:59
Lead	220.35	0.21	0.64	207		1	ICPST	9/24/99	6:30
Magnesium	279.08	3.5	1060	2010		1	ICP	9/22/99	15:59
Manganese	257.61	0.17	3.2	19.6	N	1	ICP	9/22/99	15:59
Nickel	231.60	1.4	8.5	7.6	B	1	ICP	9/22/99	15:59
Potassium	766.49	61.7	1060	240	B	1	ICP	9/22/99	15:59
Selenium	220.35	0.51	1.1	0.84	B	1	ICPST	9/24/99	6:30
Silver	328.07	0.47	2.1	0.47	U	1	ICP	9/22/99	15:59
Sodium	589	1.4	1060	779	B	1	ICP	9/22/99	15:59
Thallium	190.86	0.79	2.1	0.79	U	1	ICPST	9/24/99	6:30
Vanadium	292.40	0.62	10.6	9	B	1	ICP	9/22/99	15:59
Zinc	213.86	0.53	4.2	13600		1	ICP	9/22/99	15:59

Comments: C9I030140005 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-MEDIUM POST-MEDIUM

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23X5 **Client ID:** TS-DC-02

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 9.27

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	3.6	44.1	17300		1	ICP	9/22/99	16:09
Antimony	220.35	0.38	13.2	1.7	BN	1	ICPST	9/24/99	6:42
Arsenic	189.04	0.24	2.2	15.3		1	ICPST	9/24/99	6:42
Barium	493.41	0.073	44.1	218	N	1	ICP	9/22/99	16:09
Beryllium	313.04	0.022	1.1	0.3	B	1	ICP	9/22/99	16:09
Cadmium	228.80	0.71	1.1	3.8		1	ICP	9/22/99	16:09
Calcium	317.93	3.8	1100	8890		1	ICP	9/22/99	16:09
Chromium	267.72	0.51	2.2	146	N	1	ICP	9/22/99	16:09
Cobalt	228.62	0.57	11	8.9	B	1	ICP	9/22/99	16:09
Copper	324.75	0.21	5.5	192	N	1	ICP	9/22/99	16:09
Iron	259.94	1.7	22	17600	R	1	ICP	9/22/99	16:09
Lead	220.35	55.1	165	106000		250	ICPST	9/24/99	7:11
Magnesium	279.08	3.7	1100	2100		1	ICP	9/22/99	16:09
Manganese	257.61	0.18	3.3	167	N	1	ICP	9/22/99	16:09
Nickel	231.60	1.5	8.8	25		1	ICP	9/22/99	16:09
Potassium	766.49	64.2	1100	552	B	1	ICP	9/22/99	16:09
Selenium	220.35	0.53	1.1	2.9		1	ICPST	9/24/99	6:42
Silver	328.07	0.49	2.2	1.1	B	1	ICP	9/22/99	16:09
Sodium	589	1.4	1100	323	B	1	ICP	9/22/99	16:09
Thallium	190.86	0.82	2.2	4.8		1	ICPST	9/24/99	6:42
Vanadium	292.40	0.64	11	24.5		1	ICP	9/22/99	16:09
Zinc	213.86	0.55	4.4	4110		1	ICP	9/22/99	16:09

Comments: C9I030140006 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-MEDIUM POST-MEDIUM

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23XD **Client ID:** TS-DC-04

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 14.44

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	3.8	46.8	6450		1	ICP	9/22/99	16:12
Antimony	220.35	0.4	14	1.2	BN	1	ICPST	9/24/99	6:58
Arsenic	189.04	0.26	2.3	19.7		1	ICPST	9/24/99	6:58
Barium	493.41	0.077	46.8	194	N	1	ICP	9/22/99	16:12
Beryllium	313.04	0.023	1.2	0.3	B	1	ICP	9/22/99	16:12
Cadmium	228.80	0.75	1.2	21.2		1	ICP	9/22/99	16:12
Calcium	317.93	4	1170	4000		1	ICP	9/22/99	16:12
Chromium	267.72	0.54	2.3	38.9	N	1	ICP	9/22/99	16:12
Cobalt	228.62	0.61	11.7	14.8		1	ICP	9/22/99	16:12
Copper	324.75	0.22	5.8	171	N	1	ICP	9/22/99	16:12
Iron	259.94	1.8	23.4	48800	R	1	ICP	9/22/99	16:12
Lead	220.35	1.2	3.5	3970		5	ICPST	9/24/99	7:15
Magnesium	279.08	3.9	1170	1290		1	ICP	9/22/99	16:12
Manganese	257.61	0.19	3.5	519	N	1	ICP	9/22/99	16:12
Nickel	231.60	1.5	9.4	36.9		1	ICP	9/22/99	16:12
Potassium	766.49	68	1170	557	B	1	ICP	9/22/99	16:12
Selenium	220.35	0.56	1.2	1.2		1	ICPST	9/24/99	6:58
Silver	328.07	0.51	2.3	0.51	U	1	ICP	9/22/99	16:12
Sodium	589	1.5	1170	165	B	1	ICP	9/22/99	16:12
Thallium	190.86	0.87	2.3	0.87	U	1	ICPST	9/24/99	6:58
Vanadium	292.40	0.68	11.7	23.1		1	ICP	9/22/99	16:12
Zinc	213.86	0.58	4.7	1490		1	ICP	9/22/99	16:12

Comments: C9I030140008 COLOR:PRE-BROWN POST-BROWN TEXTURE:PRE-MEDIUM POST-MEDIUM

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 23.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.058	0.13	0.058	U	1	CVAA	9/16/99	9:47

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WH **Client ID:** TS-AM-02

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 25.54

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.06	0.13	0.071	B	1	CVAA	9/16/99	9:53

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WN **Client ID:** TS-FD-03

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 24.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.059	0.13	0.065	B	1	CVAA	9/16/99	9:56

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23WT **Client ID:** TS-AM-03

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 23.71

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.058	0.13	0.058	U	1	CVAA	9/16/99	9:58

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23X1 **Client ID:** TS-DC-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 5.73

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.047	0.11	0.14		1	CVAA	9/16/99	10:00

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23X5 **Client ID:** TS-DC-02

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 9.27

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.049	0.11	0.23		1	CVAA	9/16/99	10:02

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: D23XD **Client ID:** TS-DC-04

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 14.44

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.052	0.12	0.18		1	CVAA	9/16/99	10:08

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Duplicate Sample Results

Lab Sample ID: D23WAX **Client ID:** TS-AM-01X

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.2	4.2	52.3	43400		1	ICP	9/22/99	15:44
Antimony	220.4	0.45	15.7	0.81	B	1	ICPST	9/24/99	6:08
Arsenic	189.0	0.29	2.6	9.4		1	ICPST	9/24/99	6:08
Barium	493.4	0.086	52.3	1870		1	ICP	9/22/99	15:44
Beryllium	313.0	0.026	1.3	0.52	B	1	ICP	9/22/99	15:44
Cadmium	228.8	0.84	1.3	7.3		1	ICP	9/22/99	15:44
Calcium	317.9	4.5	1310	39100		1	ICP	9/22/99	15:44
Chromium	267.7	0.6	2.6	58.3		1	ICP	9/22/99	15:44
Cobalt	228.6	0.68	13.1	8.4	B	1	ICP	9/22/99	15:44
Copper	324.8	0.25	6.5	212		1	ICP	9/22/99	15:44
Iron	259.9	2	26.2	10000	R	1	ICP	9/22/99	15:44
Lead	220.4	0.26	0.79	605		1	ICPST	9/24/99	6:08
Magnesium	279.1	4.4	1310	5940		1	ICP	9/22/99	15:44
Manganese	257.6	0.22	3.9	157		1	ICP	9/22/99	15:44
Nickel	231.6	1.7	10.5	35		1	ICP	9/22/99	15:44
Potassium	766.5	76.2	1310	980	B	1	ICP	9/22/99	15:44
Selenium	220.4	0.63	1.3	0.69	B	1	ICPST	9/24/99	6:08
Silver	328.1	0.58	2.6	0.58	U	1	ICP	9/22/99	15:44
Sodium	589	1.7	1310	1320		1	ICP	9/22/99	15:44
Thallium	190.9	0.97	2.6	0.97	U	1	ICPST	9/24/99	6:08
Vanadium	292.4	0.76	13.1	67.2		1	ICP	9/22/99	15:44
Zinc	213.9	0.65	5.2	14300		1	ICP	9/22/99	15:44

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form I Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Duplicate Sample Results

Lab Sample ID: D23WAX **Client ID:** TS-AM-01X

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 23.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.058	0.13	0.058	U	1	CVAA	9/16/99	9:49

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 1 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 0916HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 9/16/99 9:34 AM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.089	U								

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J90922B.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 9/22/99 3:12 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	16.2	U								
Barium	493.409	200	0.33	U								
Beryllium	313.042	5	**0.15**	**B**								
Cadmium	228.802	5	3.2	U								
Calcium	317.933	5000	17	U								
Chromium	267.716	10	2.3	U								
Cobalt	228.616	50	2.6	U								
Copper	324.754	25	**1.7**	**B**								
Iron	259.94	100	7.6	U								
Magnesium	279.079	5000	16.7	U								
Manganese	257.61	15	0.82	U								
Nickel	231.604	40	6.6	U								
Potassium	766.491	5000	**392**	**B**								
Silver	328.068	10	2.2	U								
Sodium	588.995	5000	6.5	U								
Vanadium	292.402	50	2.9	U								
Zinc	213.856	20	2.5	U								

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL
ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T90924A.ARC

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	ICB1 9/24/99 5:27 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.7	U								
Arsenic	189.042	10	1.1	U								
Lead	220.353	3	1	U								
Selenium	220.353	5	2.4	U								
Thallium	190.864	10	3.7	U								

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 0916HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 9/16/99 9:42 AM		CCB2 9/16/99 10:06 AM		CCB3 9/16/99 10:31 AM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.089	U	0.089	U	0.089	U				

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J90922B.ARC

Standard Source: **Standard ID:**

Element	WL/ Mass	Report Limit	CCB1 9/22/99 3:28 PM		CCB2 9/22/99 4:05 PM		CCB3 9/22/99 4:39 PM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	16.2	U	16.2	U	**39.7**	**B**				
Barium	493.409	200	0.33	U	**0.43**	**B**	**1.3**	**B**				
Beryllium	313.042	5	**0.29**	**B**	**0.37**	**B**	**0.99**	**B**				
Cadmium	228.802	5	3.2	U	3.2	U	3.2	U				
Calcium	317.933	5000	17	U	17	U	**39.6**	**B**				
Chromium	267.716	10	2.3	U	2.3	U	**3.1**	**B**				
Cobalt	228.616	50	2.6	U	2.6	U	2.6	U				
Copper	324.754	25	0.96	U	0.96	U	**1.8**	**B**				
Iron	259.94	100	7.6	U	7.6	U	**24**	**B**				
Magnesium	279.079	5000	**16.8**	**B**	16.7	U	**58.1**	**B**				
Manganese	257.61	15	0.82	U	0.82	U	**0.99**	**B**				
Nickel	231.604	40	6.6	U	6.6	U	6.6	U				
Potassium	766.491	5000	291	U	291	U	**413**	**B**				
Silver	328.068	10	2.2	U	2.2	U	2.2	U				
Sodium	588.995	5000	6.5	U	6.5	U	**8.5**	**B**				
Vanadium	292.402	50	2.9	U	2.9	U	**4.2**	**B**				
Zinc	213.856	20	2.5	U	**2.6**	**B**	**3**	**B**				

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T90924A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 9/24/99 5:47 AM		CCB2 9/24/99 6:38 AM		CCB3 9/24/99 7:43 AM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.7	U	1.7	U	1.7	U				
Arsenic	189.042	10	1.1	U	1.1	U	1.1	U				
Lead	220.353	3	1	U	1	U	**1.8**	**B**				
Selenium	220.353	5	2.4	U	2.4	U	2.4	U				
Thallium	190.864	10	3.7	U	3.7	U	3.7	U				

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: D2FHAB

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	3.2	40	3.2	U	1	ICP	9/22/99	15:31
Antimony	220.353	0.34	12	0.34	U	1	ICPST	9/24/99	5:51
Arsenic	**189.042**	**0.22**	**2**	**0.3**	**B**	**1**	**ICPST**	**9/24/99**	**5:51**
Barium	493.409	0.066	40	0.066	U	1	ICP	9/22/99	15:31
Beryllium	313.042	0.02	1	0.02	U	1	ICP	9/22/99	15:31
Cadmium	228.802	0.64	1	0.64	U	1	ICP	9/22/99	15:31
Calcium	317.933	3.4	1000	3.4	U	1	ICP	9/22/99	15:31
Chromium	**267.716**	**0.46**	**2**	**0.48**	**B**	**1**	**ICP**	**9/22/99**	**15:31**
Cobalt	228.616	0.52	10	0.52	U	1	ICP	9/22/99	15:31
Copper	**324.754**	**0.19**	**5**	**0.29**	**B**	**1**	**ICP**	**9/22/99**	**15:31**
Iron	**259.94**	**1.5**	**20**	**2.2**	**B**	**1**	**ICP**	**9/22/99**	**15:31**
Lead	220.353	0.2	0.6	0.2	U	1	ICPST	9/24/99	5:51
Magnesium	**279.079**	**3.3**	**1000**	**4.6**	**B**	**1**	**ICP**	**9/22/99**	**15:31**
Manganese	257.61	0.16	3	0.16	U	1	ICP	9/22/99	15:31
Nickel	231.604	1.3	8	1.3	U	1	ICP	9/22/99	15:31
Potassium	**766.491**	**58.2**	**1000**	**69.5**	**B**	**1**	**ICP**	**9/22/99**	**15:31**
Selenium	220.353	0.48	1	0.48	U	1	ICPST	9/24/99	5:51
Silver	328.068	0.44	2	0.44	U	1	ICP	9/22/99	15:31
Sodium	588.995	1.3	1000	1.3	U	1	ICP	9/22/99	15:31
Thallium	**190.864**	**0.74**	**2**	**1.3**	**B**	**1**	**ICPST**	**9/24/99**	**5:51**
Vanadium	292.402	0.58	10	0.58	U	1	ICP	9/22/99	15:31
Zinc	213.856	0.5	4	0.5	U	1	ICP	9/22/99	15:31

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: D2H2DB

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.1	0.045	U	1	CVAA	9/16/99	9:44

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: D23WAS

Original Sample ID: D23WA **Client ID:** TS-AM-01S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	46500		50800	NC	523.35	0.0	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Antimony	220.4	0.45	U	8.8	B N	26.168	33.5	1	1	ICPST	9/24/99	6:00	9/24/99	6:12
Arsenic	189.0	8.9		17.8		10.467	84.9	1	1	ICPST	9/24/99	6:00	9/24/99	6:12
Barium	493.4	1610		1750	N	523.35	27.1	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Beryllium	313.0	0.53	B	11		13.084	79.9	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Cadmium	228.8	7.5		23.8		13.084	124.5	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Calcium	317.9	38000		48900		13084	83.3	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Chromium	267.7	56.1		88.1	N	52.335	61.3	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Cobalt	228.6	7.7	B	116		130.84	82.8	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Copper	324.8	233		241	N	65.419	12.9	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Iron	259.9	13000		7060	NC	261.68	0.0	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Lead	220.4	593		504	NC	5.2335	0.0	1	1	ICPST	9/24/99	6:00	9/24/99	6:12
Magnesium	279.1	5620		16900		13084	86.0	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Manganese	257.6	143		232	N	130.84	67.9	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Nickel	231.6	35		144		130.84	83.5	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Potassium	766.5	957	B	12200		13084	85.6	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Selenium	220.4	0.74	B	2.8		2.6168	78.9	1	1	ICPST	9/24/99	6:00	9/24/99	6:12
Silver	328.1	0.58	U	10.7		13.084	81.9	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Sodium	589	1320		12500		13084	85.3	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Thallium	190.9	0.97	U	12.1		13.084	92.1	1	1	ICPST	9/24/99	6:00	9/24/99	6:12
Vanadium	292.4	65.6		181		130.84	88.2	1	1	ICP	9/22/99	15:37	9/22/99	15:47
Zinc	213.9	13400		18800	NC	130.84	0.0	1	1	ICP	9/22/99	15:37	9/22/99	15:47

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 5A Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: D23WAS

Original Sample ID: D23WA **Client ID:** TS-AM-01S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.058	U	0.71		0.6542	109.0	1	1	CVAA	9/16/99	9:47	9/16/99	9:51

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 5A Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Post Digest Spike Sample Results

Spike Sample ID: D23WAA

Original Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	PDS Conc	Q	Spike Level	% Rec	OS DF	PDS DF	Instr	OS Anal Date	OS Anal Time	PDS Anal Date	PDS Anal Time
Antimony	220.4	0.45	UN	34.3	N	31.4	109.2	1	1	ICPST	9/24/99	6:00	9/24/99	7:22

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 5B Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Post Digest Spike Sample Results

Spike Sample ID: D23WAA1

Original Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	PDS Conc	Q	Spike Level	% Rec	OS DF	PDS DF	Instr	OS Anal Date	OS Anal Time	PDS Anal Date	PDS Anal Time
Barium	493.4	1610	N	4610	N	3140	95.5	1	1	ICP	9/22/99	15:37	9/22/99	16:20
Copper	324.8	233	N	684	N	471	95.7	1	1	ICP	9/22/99	15:37	9/22/99	16:20
Manganese	257.6	143	N	416	N	288	94.9	1	1	ICP	9/22/99	15:37	9/22/99	16:20

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 5B Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Post Digest Spike Sample Results

Spike Sample ID: D23WAA2

Original Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	PDS Conc	Q	Spike Level	% Rec	OS DF	PDS DF	Instr	OS Anal Date	OS Anal Time	PDS Anal Date	PDS Anal Time
Chromium	267.7	56.1	N	164	N	113	95.7	1	1	ICP	9/22/99	15:37	9/22/99	16:23

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 5B Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Duplicate RPD Report

Duplicate Sample ID: D23WAX

Original Sample ID: D23WA **Client ID:** TS-AM-01X

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Aluminum	308.215	46500		43400		6.8 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Antimony	220.353	0.45	UN	0.81	B	0.5 %	1	1	ICPST	9/24/99	6:00	9/24/99	6:08
Arsenic	189.042	8.9		9.4		0.4 %	1	1	ICPST	9/24/99	6:00	9/24/99	6:08
Barium	493.409	1610	N	1870		15.1 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Beryllium	313.042	0.53	B	0.52	B	0.0 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Cadmium	228.802	7.5		7.3		2.8 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Calcium	317.933	38000		39100		2.9 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Chromium	267.716	56.1	N	58.3		3.9 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Cobalt	228.616	7.7	B	8.4	B	0.7 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Copper	324.754	233	N	212		9.2 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Iron	259.94	13000		10000	R	25.4 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Lead	220.353	593		605		2.0 %	1	1	ICPST	9/24/99	6:00	9/24/99	6:08
Magnesium	279.079	5620		5940		326.0 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Manganese	257.61	143	N	157		9.5 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Nickel	231.604	35		35		0.0 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Potassium	766.491	957	B	980	B	23.2 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Selenium	220.353	0.74	B	0.69	B	0.1 %	1	1	ICPST	9/24/99	6:00	9/24/99	6:08
Silver	328.068	0.58	U	0.58	U		1	1	ICP	9/22/99	15:37	9/22/99	15:44
Sodium	588.995	1320		1320		3.9 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Thallium	190.864	0.97	U	0.97	U		1	1	ICPST	9/24/99	6:00	9/24/99	6:08
Vanadium	292.402	65.6		67.2		2.5 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44
Zinc	213.856	13400		14300		6.5 %	1	1	ICP	9/22/99	15:37	9/22/99	15:44

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
R Duplicate analysis RPD was not within limits

Form 6 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Sample Duplicate RPD Report

Duplicate Sample ID: D23WAX

Original Sample ID: D23WA **Client ID:** TS-AM-01X

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Mercury	253.7	0.058	U	0.058	U		1	1	CVAA	9/16/99	9:47	9/16/99	9:49

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
R Duplicate analysis RPD was not within limits

Form 6 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: D2FHAC

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	5250	3300	62.8		60-140	1	ICP	9/22/99	15:34
Antimony	220.353	33	26.2	79.4		18-182	1	ICPST	9/24/99	5:56
Arsenic	189.042	93.9	93	99.1		74-125	1	ICPST	9/24/99	5:56
Barium	493.409	330	299	90.5		77-122	1	ICP	9/22/99	15:34
Beryllium	313.042	42.7	37.5	87.9		79-121	1	ICP	9/22/99	15:34
Cadmium	228.802	97.2	90.5	93.1		77-123	1	ICP	9/22/99	15:34
Calcium	317.933	1320	1180	89.5		75-125	1	ICP	9/22/99	15:34
Chromium	267.716	46	41.7	90.7		77-122	1	ICP	9/22/99	15:34
Cobalt	228.616	120	111	92.4		80-120	1	ICP	9/22/99	15:34
Copper	324.754	147	138	93.9		83-118	1	ICP	9/22/99	15:34
Iron	259.94	10200	6730	66.0		59-142	1	ICP	9/22/99	15:34
Lead	220.353	135	119	88.4		77-123	1	ICPST	9/24/99	5:56
Magnesium	279.079	2340	2030	86.5		81-119	1	ICP	9/22/99	15:34
Manganese	257.61	166	145	87.2		77-123	1	ICP	9/22/99	15:34
Nickel	231.604	138	130	94.3		79-121	1	ICP	9/22/99	15:34
Potassium	766.491	1480	1220	82.7		75-131	1	ICP	9/22/99	15:34
Selenium	220.353	96	95.3	99.3		75-126	1	ICPST	9/24/99	5:56
Silver	328.068	86.7	85.9	99.1		75-125	1	ICP	9/22/99	15:34
Sodium	588.995	845	745	88.1	B	63-137	1	ICP	9/22/99	15:34
Thallium	190.864	45.7	46.5	101.7		51-149	1	ICPST	9/24/99	5:56
Vanadium	292.402	65.1	53.2	81.7		69-131	1	ICP	9/22/99	15:34
Zinc	213.856	75	67	89.3		78-122	1	ICP	9/22/99	15:34

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 7 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: D2H2DC

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/16/99 **Prep Batch:** 9259106

Weight: 0.2 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	2.2	2.4	108.8		68-132	1	CVAA	9/16/99	9:45

Comments:

Version 3.00.6

U Result is less than the IDL

B Result is between IDL and RL

Form 7 Equivalent

ORIGINAL

Quanterra-Pittsburgh

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: D23WAP

Original Sample ID: D23WA **Client ID:** TS-AM-01

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/15/99 **Prep Batch:** 9258170

Weight: 1.0 **Volume:** 200 **Percent Moisture:** 23.57

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	46500		46800		0.6 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Antimony	220.353	0.45	UN	2.2	U		1	5	ICPST	9/24/99	6:00	9/24/99	6:04
Arsenic	189.042	8.9		10.8	B		1	5	ICPST	9/24/99	6:00	9/24/99	6:04
Barium	493.409	1610	N	1650		2.5 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Beryllium	313.042	0.53	B	0.54	B		1	5	ICP	9/22/99	15:37	9/22/99	15:40
Cadmium	228.802	7.5		7			1	5	ICP	9/22/99	15:37	9/22/99	15:40
Calcium	317.933	38000		38600		1.5 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Chromium	267.716	56.1	N	58.4		4.1 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Cobalt	228.616	7.7	B	8.6	B		1	5	ICP	9/22/99	15:37	9/22/99	15:40
Copper	324.754	233	N	233		0.1 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Iron	259.94	13000		13600		4.8 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Lead	220.353	593		599		0.9 %	1	5	ICPST	9/24/99	6:00	9/24/99	6:04
Magnesium	279.079	5620		5750	B	2.3 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Manganese	257.61	143	N	148		3.9 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Nickel	231.604	35		31.6	B		1	5	ICP	9/22/99	15:37	9/22/99	15:40
Potassium	766.491	957	B	821	B		1	5	ICP	9/22/99	15:37	9/22/99	15:40
Selenium	220.353	0.74	B	3.1	U		1	5	ICPST	9/24/99	6:00	9/24/99	6:04
Silver	328.068	0.58	U	2.9	U		1	5	ICP	9/22/99	15:37	9/22/99	15:40
Sodium	588.995	1320		1330	B	0.9 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Thallium	190.864	0.97	U	4.8	U		1	5	ICPST	9/24/99	6:00	9/24/99	6:04
Vanadium	292.402	65.6		70.2		7.0 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40
Zinc	213.856	13400		13800		3.0 %	1	5	ICP	9/22/99	15:37	9/22/99	15:40

Comments:

Version 3.00.6

U Result is less than the IDL
B Result is between IDL and RL
R Duplicate analysis RPD was not within limits

Form 9 Equivalent

ORIGINAL

WET CHEMISTRY

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-AM-01

General Chemistry

Lot-Sample #...: C9I030140-001 **Work Order #...:** D23WA **Matrix.....:** SOLID
Date Sampled...: 08/31/99 **Date Received..:** 09/03/99
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**23.6**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	3.3	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-AM-02

General Chemistry

Lot-Sample #...: C9I030140-002 **Work Order #...:** D23WH **Matrix.....:** SOLID
Date Sampled...: 08/31/99 **Date Received..:** 09/03/99
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**25.5**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	3.4	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-FD-03

General Chemistry

Lot-Sample #...: C9I030140-003 **Work Order #...:** D23WN **Matrix.....:** SOLID
Date Sampled...: 08/31/99 **Date Received..:** 09/03/99
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**24.6**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	3.3	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-AM-03

General Chemistry

Lot-Sample #...: C9I030140-004 **Work Order #...:** D23WT **Matrix.....:** SOLID
Date Sampled...: 08/31/99 **Date Received..:** 09/03/99
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**23.7**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	3.3	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-DC-01

General Chemistry

Lot-Sample #...: C9I030140-005 **Work Order #...:** D23X1 **Matrix.....:** SOLID
Date Sampled...: 09/01/99 **Date Received..:** 09/03/99
% Moisture.....: 5.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**5.7**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	2.7	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-DC-02

General Chemistry

Lot-Sample #...: C9I030140-006 **Work Order #...:** D23X5 **Matrix.....:** SOLID
Date Sampled...: 09/01/99 **Date Received..:** 09/03/99
% Moisture.....: 9.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**9.3**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	2.8	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-DC-03

General Chemistry

Lot-Sample #...: C9I030140-007 **Work Order #...:** D23XA **Matrix.....:** SOLID
Date Sampled...: 09/01/99 **Date Received..:** 09/03/99
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide	ND	2.5	mg/kg	ICLP ILM04.0	09/08/99	9251117

Dilution Factor: 1 MS Run #.....: 9251014

ORIGINAL

WESTON, ROY F.

Client Sample ID: TS-DC-04

General Chemistry

Lot-Sample #...: C9I030140-008 **Work Order #...:** D23XD **Matrix.....:** SOLID
Date Sampled...: 09/01/99 **Date Received..:** 09/03/99
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**14.4**	**1.0**	**%**	**ICLP ILM04.0**	**09/09-09/10/99**	**9252275**
		Dilution Factor: 1		MS Run #.....: 9252095		
Total Cyanide	ND	2.9	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1		MS Run #.....: 9251014		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C9I030140 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #:	D26H4101	MB Lot-Sample #:	C9I080000-117	
	ND	2.5	mg/kg	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

ORIGINAL

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C9I030140 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #: D26H4102	LCS Lot-Sample#: C9I080000-117		
	98	(54 - 146)	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

ORIGINAL

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C9I030140 **Matrix.....:** SOLID
Date Sampled...: 08/31/99 **Date Received..:** 09/03/99

Percnt Moisture: 30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide		Work Order #...: D206K136		MS Lot-Sample #: C9H310220-001	
	100	(49 - 191)	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1			
		MS Run #.....: 9251014			
Total Cyanide		Work Order #...: D23WA12T		MS Lot-Sample #: C9I030140-001	
	98	(49 - 191)	ICLP ILM04.0	09/08/99	9251117
		Dilution Factor: 1			
		MS Run #.....: 9251014			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

ORIGINAL

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C9I030140 **Work Order #...:** D206K-SMP D206K-DUP **Matrix.....:** SOLID

Date Sampled...: 08/29/99 **Date Received..:** 08/31/99

% Moisture.....: 30

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide						SD Lot-Sample #:	C9H310220-001	
	ND	0.25 B	mg/kg	200	(0-46)	ICLP ILM04.0	09/08/99	9251117

Dilution Factor: 1

Prep Date.....: 9251014 Analysis Date..: Prep Batch #...:

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

ORIGINAL

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C9I030140 **Work Order #...:** D23WA-SMP D23WA-DUP **Matrix.....:** SOLID

Date Sampled...: 08/31/99 **Date Received..:** 09/03/99

% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Cyanide						SD Lot-Sample #:	C9I030140-001	
	ND	ND	mg/kg	0	(0-46)	ICLP ILM04.0	09/08/99	9251117
			Dilution Factor: 1					
			Prep Date.....: 9251014			Analysis Date..:	Prep Batch #...:	
Percent Moisture						SD Lot-Sample #:	C9I030140-001	
	23.6	25.2	%	6.8	(0-0.0)	ICLP ILM04.0	09/09-09/10/99	9252275
			Dilution Factor: 1					
			Prep Date.....: 9252095			Analysis Date..:	Prep Batch #...:	