

ANALYTICAL REPORT

Job Number: 500-22018-1

Job Description: Pittsburg Zinc

For:

Environmental Restoration LLC

1666 Fabrick Dr.

Fenton, MO 63026

Attention: Mr. David Brinkmeyer



Approved for release.
Eric A. Lang
Project Manager II
10/27/2009 4:37 PM

Eric A. Lang
Project Manager II
eric.lang@testamericainc.com
10/27/2009

cc: Ms. Emily Fisher

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484

Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-22018-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The laboratory control sample (LCS) for preparation batch 74202 exceeded control limits Di-n-octyl phthalate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-22018-1	PZBF-1					
Arsenic		4.4		1.2	mg/Kg	6010B
Barium		130		1.2	mg/Kg	6010B
Cadmium		0.20	J	0.24	mg/Kg	6010B
Chromium		12	B	1.2	mg/Kg	6010B
Lead		15		0.61	mg/Kg	6010B
Selenium		0.40	J	1.2	mg/Kg	6010B
Silver		0.19	J	0.61	mg/Kg	6010B
Mercury		46	B	22	ug/Kg	7471A
Percent Moisture		26		0.10	%	Moisture
Percent Solids		74		0.10	%	Moisture

METHOD SUMMARY

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL CHI	SW846 8260B	
Purge and Trap	TAL CHI		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CHI	SW846 8270C	
Automated Soxhlet Extraction	TAL CHI		SW846 3541
Metals (ICP)	TAL CHI	SW846 6010B	
Preparation, Metals	TAL CHI		SW846 3050B
Mercury (CVAA)	TAL CHI	SW846 7471A	
Preparation, Mercury	TAL CHI		SW846 7471A
Percent Moisture	TAL CHI	EPA Moisture	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method	Analyst	Analyst ID
SW846 8260B	Werner, Brian D	BDW
SW846 8270C	Akcakal, Duran	DA
SW846 6010B	Smith, Todd D	TDS
SW846 7471A	Roach, Jessica	JR
EPA Moisture	Boyd, Cheryl L	CLB

SAMPLE SUMMARY

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-22018-1	PZBF-1	Solid	10/22/2009 1215	10/24/2009 0910

SAMPLE RESULTS

Mr. David Brinkmeyer
Environmental Restoration LLC
1666 Fabrick Dr.
Fenton, MO 63026

Job Number: 500-22018-1

Client Sample ID: PZBF-1
Lab Sample ID: 500-22018-1

Date Sampled: 10/22/2009 1215
Date Received: 10/24/2009 0910
Client Matrix: Solid
Percent Solids: 74

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/26/2009 0935		
Prep Method: 5030B			Date Prepared:	10/26/2009 0935		
Dichlorodifluoromethane	6.8	U	ug/Kg	2.0	6.8	1.0
Chloromethane	6.8	U	ug/Kg	1.4	6.8	1.0
Vinyl chloride	6.8	U	ug/Kg	0.68	6.8	1.0
Bromomethane	6.8	U	ug/Kg	1.8	6.8	1.0
Chloroethane	6.8	U	ug/Kg	1.2	6.8	1.0
Trichlorofluoromethane	6.8	U	ug/Kg	0.77	6.8	1.0
1,1-Dichloroethene	6.8	U	ug/Kg	1.2	6.8	1.0
Carbon disulfide	6.8	U	ug/Kg	1.0	6.8	1.0
Acetone	6.8	U	ug/Kg	2.4	6.8	1.0
Methylene Chloride	6.8	U	ug/Kg	2.6	6.8	1.0
trans-1,2-Dichloroethene	6.8	U	ug/Kg	1.0	6.8	1.0
Methyl tert-butyl ether	6.8	U	ug/Kg	1.2	6.8	1.0
1,1-Dichloroethane	6.8	U	ug/Kg	0.92	6.8	1.0
2,2-Dichloropropane	6.8	U	ug/Kg	1.1	6.8	1.0
cis-1,2-Dichloroethene	6.8	U	ug/Kg	1.1	6.8	1.0
Methyl Ethyl Ketone	6.8	U	ug/Kg	1.6	6.8	1.0
Bromochloromethane	6.8	U	ug/Kg	1.3	6.8	1.0
Chloroform	6.8	U	ug/Kg	1.1	6.8	1.0
1,1,1-Trichloroethane	6.8	U	ug/Kg	0.85	6.8	1.0
1,1-Dichloropropene	6.8	U	ug/Kg	0.92	6.8	1.0
Carbon tetrachloride	6.8	U	ug/Kg	0.83	6.8	1.0
Benzene	6.8	U	ug/Kg	1.0	6.8	1.0
1,2-Dichloroethane	6.8	U	ug/Kg	1.2	6.8	1.0
Trichloroethene	6.8	U	ug/Kg	0.76	6.8	1.0
1,2-Dichloropropane	6.8	U	ug/Kg	0.98	6.8	1.0
Dibromomethane	6.8	U	ug/Kg	1.1	6.8	1.0
Bromodichloromethane	6.8	U	ug/Kg	0.96	6.8	1.0
cis-1,3-Dichloropropene	6.8	U	ug/Kg	0.94	6.8	1.0
methyl isobutyl ketone	6.8	U	ug/Kg	0.71	6.8	1.0
Toluene	6.8	U	ug/Kg	0.95	6.8	1.0
trans-1,3-Dichloropropene	6.8	U	ug/Kg	0.83	6.8	1.0
1,1,2-Trichloroethane	6.8	U	ug/Kg	1.1	6.8	1.0
Tetrachloroethene	6.8	U	ug/Kg	1.2	6.8	1.0
1,3-Dichloropropane	6.8	U	ug/Kg	1.1	6.8	1.0
2-Hexanone	6.8	U	ug/Kg	0.99	6.8	1.0
Dibromochloromethane	6.8	U	ug/Kg	0.77	6.8	1.0
1,2-Dibromoethane	6.8	U	ug/Kg	0.81	6.8	1.0
Chlorobenzene	6.8	U	ug/Kg	0.98	6.8	1.0
1,1,1,2-Tetrachloroethane	6.8	U	ug/Kg	0.76	6.8	1.0

Mr. David Brinkmeyer
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Job Number: 500-22018-1

Client Sample ID: PZBF-1
Lab Sample ID: 500-22018-1

Date Sampled: 10/22/2009 1215
Date Received: 10/24/2009 0910
Client Matrix: Solid
Percent Solids: 74

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	6.8	U	ug/Kg	0.98	6.8	1.0
m&p-Xylene	14	U	ug/Kg	1.9	14	1.0
o-Xylene	6.8	U	ug/Kg	0.94	6.8	1.0
Styrene	6.8	U	ug/Kg	0.79	6.8	1.0
Bromoform	6.8	U	ug/Kg	1.0	6.8	1.0
Isopropylbenzene	6.8	U	ug/Kg	0.95	6.8	1.0
Bromobenzene	6.8	U	ug/Kg	1.0	6.8	1.0
1,1,2,2-Tetrachloroethane	6.8	U	ug/Kg	0.95	6.8	1.0
1,2,3-Trichloropropane	6.8	U	ug/Kg	1.1	6.8	1.0
N-Propylbenzene	6.8	U	ug/Kg	0.88	6.8	1.0
2-Chlorotoluene	6.8	U	ug/Kg	1.0	6.8	1.0
1,3,5-Trimethylbenzene	6.8	U	ug/Kg	1.0	6.8	1.0
4-Chlorotoluene	6.8	U	ug/Kg	1.1	6.8	1.0
tert-Butylbenzene	6.8	U	ug/Kg	0.81	6.8	1.0
1,2,4-Trimethylbenzene	6.8	U	ug/Kg	0.90	6.8	1.0
sec-Butylbenzene	6.8	U	ug/Kg	0.94	6.8	1.0
p-Isopropyltoluene	6.8	U	ug/Kg	0.96	6.8	1.0
n-Butylbenzene	6.8	U	ug/Kg	1.0	6.8	1.0
1,2-Dibromo-3-Chloropropane	6.8	U	ug/Kg	2.0	6.8	1.0
1,2,3-Trichlorobenzene	6.8	U	ug/Kg	1.2	6.8	1.0
Surrogate	Acceptance Limits					
1,2-Dichloroethane-d4 (Surr)	113		%	75 - 140		
Toluene-d8 (Surr)	105		%	75 - 132		
4-Bromofluorobenzene (Surr)	100		%	75 - 122		
Dibromofluoromethane	117		%	75 - 140		
Method: 8270C			Date Analyzed:	10/27/2009	1433	
Prep Method: 3541			Date Prepared:	10/26/2009	0804	
Phenol	220	U	ug/Kg	38	220	1.0
Bis(2-chloroethyl)ether	220	U	ug/Kg	28	220	1.0
1,3-Dichlorobenzene	220	U	ug/Kg	23	220	1.0
1,4-Dichlorobenzene	220	U	ug/Kg	24	220	1.0
1,2-Dichlorobenzene	220	U	ug/Kg	22	220	1.0
Benzyl alcohol	430	U	ug/Kg	68	430	1.0
2-Methylphenol	220	U	ug/Kg	43	220	1.0
2,2'-oxybis[1-chloropropane]	220	U	ug/Kg	23	220	1.0
N-Nitrosodi-n-propylamine	220	U	ug/Kg	30	220	1.0
Hexachloroethane	220	U	ug/Kg	23	220	1.0
2-Chlorophenol	220	U	ug/Kg	38	220	1.0
Nitrobenzene	43	U	ug/Kg	8.0	43	1.0
Bis(2-chloroethoxy)methane	220	U	ug/Kg	27	220	1.0

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Date Sampled: 10/22/2009 1215
Date Received: 10/24/2009 0910
Client Matrix: Solid
Percent Solids: 74

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
1,2,4-Trichlorobenzene	220	U	ug/Kg	22	220	1.0
Benzoic acid	2200	U	ug/Kg	370	2200	1.0
Isophorone	220	U	ug/Kg	18	220	1.0
2,4-Dimethylphenol	430	U	ug/Kg	80	430	1.0
Hexachlorobutadiene	220	U	ug/Kg	25	220	1.0
Naphthalene	43	U	ug/Kg	4.5	43	1.0
2,4-Dichlorophenol	430	U	ug/Kg	47	430	1.0
4-Chloroaniline	880	U	ug/Kg	170	880	1.0
2,4,6-Trichlorophenol	430	U	ug/Kg	44	430	1.0
2,4,5-Trichlorophenol	430	U	ug/Kg	61	430	1.0
Hexachlorocyclopentadiene	880	U	ug/Kg	150	880	1.0
2-Methylnaphthalene	220	U	ug/Kg	25	220	1.0
2-Nitroaniline	220	U	ug/Kg	24	220	1.0
2-Chloronaphthalene	220	U	ug/Kg	20	220	1.0
4-Chloro-3-methylphenol	430	U	ug/Kg	110	430	1.0
2,6-Dinitrotoluene	220	U	ug/Kg	23	220	1.0
2-Nitrophenol	430	U	ug/Kg	53	430	1.0
3-Nitroaniline	430	U	ug/Kg	85	430	1.0
Dimethyl phthalate	220	U	ug/Kg	17	220	1.0
2,4-Dinitrophenol	880	U	ug/Kg	240	880	1.0
Acenaphthylene	43	U	ug/Kg	4.6	43	1.0
2,4-Dinitrotoluene	220	U	ug/Kg	23	220	1.0
Acenaphthene	43	U	ug/Kg	5.5	43	1.0
Dibenzofuran	220	U	ug/Kg	16	220	1.0
4-Nitrophenol	880	U	ug/Kg	76	880	1.0
Fluorene	43	U	ug/Kg	4.6	43	1.0
4-Nitroaniline	430	U	ug/Kg	93	430	1.0
4-Bromophenyl phenyl ether	220	U	ug/Kg	17	220	1.0
Hexachlorobenzene	88	U	ug/Kg	6.3	88	1.0
Diethyl phthalate	220	U	ug/Kg	22	220	1.0
4-Chlorophenyl phenyl ether	220	U	ug/Kg	18	220	1.0
Pentachlorophenol	880	U	ug/Kg	160	880	1.0
N-Nitrosodiphenylamine	220	U	ug/Kg	13	220	1.0
4,6-Dinitro-2-methylphenol	430	U	ug/Kg	53	430	1.0
Phenanthrene	43	U	ug/Kg	3.8	43	1.0
Anthracene	43	U	ug/Kg	5.1	43	1.0
Carbazole	220	U	ug/Kg	17	220	1.0
Di-n-butyl phthalate	220	U	ug/Kg	17	220	1.0
Benzidine	880	U	ug/Kg	200	880	1.0
Fluoranthene	43	U	ug/Kg	5.6	43	1.0
Pyrene	43	U	ug/Kg	5.1	43	1.0

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Lab Sample ID: 500-22018-1

Date Sampled: 10/22/2009 1215
Date Received: 10/24/2009 0910
Client Matrix: Solid
Percent Solids: 74

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Butyl benzyl phthalate	220	U	ug/Kg	19	220	1.0
Benzo[a]anthracene	43	U	ug/Kg	5.5	43	1.0
Chrysene	43	U	ug/Kg	6.8	43	1.0
3,3'-Dichlorobenzidine	220	U	ug/Kg	64	220	1.0
Bis(2-ethylhexyl) phthalate	220	U	ug/Kg	37	220	1.0
Di-n-octyl phthalate	220	U *	ug/Kg	20	220	1.0
Benzo[b]fluoranthene	43	U	ug/Kg	9.6	43	1.0
Benzo[k]fluoranthene	43	U	ug/Kg	9.3	43	1.0
Benzo[a]pyrene	43	U	ug/Kg	4.1	43	1.0
Indeno[1,2,3-cd]pyrene	43	U	ug/Kg	5.6	43	1.0
Dibenz(a,h)anthracene	43	U	ug/Kg	5.4	43	1.0
Benzo[g,h,i]perylene	43	U	ug/Kg	7.5	43	1.0
3 & 4 Methylphenol	220	U	ug/Kg	40	220	1.0
Surrogate	Acceptance Limits					
2-Fluorophenol	42		%		26 - 110	
Phenol-d5	57		%		27 - 110	
Nitrobenzene-d5	30		%		20 - 110	
2-Fluorobiphenyl	29		%		27 - 113	
2,4,6-Tribromophenol	72		%		30 - 137	
Terphenyl-d14	63		%		34 - 127	
Method: 6010B	Date Analyzed: 10/26/2009 1622					
Prep Method: 3050B	Date Prepared: 10/26/2009 0835					
Arsenic	4.4		mg/Kg	0.16	1.2	1.0
Barium	130		mg/Kg	0.11	1.2	1.0
Cadmium	0.20	J	mg/Kg	0.044	0.24	1.0
Chromium	12	B	mg/Kg	0.092	1.2	1.0
Lead	15		mg/Kg	0.28	0.61	1.0
Selenium	0.40	J	mg/Kg	0.34	1.2	1.0
Silver	0.19	J	mg/Kg	0.080	0.61	1.0
Method: 7471A	Date Analyzed: 10/27/2009 0825					
Prep Method: 7471A	Date Prepared: 10/26/2009 0915					
Mercury	46	B	ug/Kg	12	22	1.0
Method: Moisture	Date Analyzed: 10/26/2009 0306					
Percent Moisture	26		%	0.10	0.10	1.0

DATA REPORTING QUALIFIERS

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-74253					
LCS 500-74253/6	Lab Control Sample	T	Solid	8260B	
MB 500-74253/5	Method Blank	T	Solid	8260B	
500-22018-1	PZBF-1	T	Solid	8260B	
500-22018-1MS	Matrix Spike	T	Solid	8260B	
500-22018-1MSD	Matrix Spike Duplicate	T	Solid	8260B	

Report Basis

T = Total

GC/MS Semi VOA

Prep Batch: 500-74202					
LCS 500-74202/2-A	Lab Control Sample	T	Solid	3541	
MB 500-74202/1-A	Method Blank	T	Solid	3541	
500-22018-1	PZBF-1	T	Solid	3541	
Analysis Batch:500-74358					
LCS 500-74202/2-A	Lab Control Sample	T	Solid	8270C	500-74202
MB 500-74202/1-A	Method Blank	T	Solid	8270C	500-74202
500-22018-1	PZBF-1	T	Solid	8270C	500-74202

Report Basis

T = Total

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-74204					
LCS 500-74204/2-A	Lab Control Sample	T	Solid	3050B	
MB 500-74204/1-A	Method Blank	T	Solid	3050B	
500-22018-1	PZBF-1	T	Solid	3050B	
Prep Batch: 500-74219					
LCS 500-74219/2-A	Lab Control Sample	T	Solid	7471A	
MB 500-74219/1-A	Method Blank	T	Solid	7471A	
500-22018-1	PZBF-1	T	Solid	7471A	
Analysis Batch:500-74290					
LCS 500-74204/2-A	Lab Control Sample	T	Solid	6010B	500-74204
MB 500-74204/1-A	Method Blank	T	Solid	6010B	500-74204
500-22018-1	PZBF-1	T	Solid	6010B	500-74204
Analysis Batch:500-74325					
LCS 500-74219/2-A	Lab Control Sample	T	Solid	7471A	500-74219
MB 500-74219/1-A	Method Blank	T	Solid	7471A	500-74219
500-22018-1	PZBF-1	T	Solid	7471A	500-74219

Report Basis

T = Total

General Chemistry

Analysis Batch:500-74192					
500-22018-1	PZBF-1	T	Solid	Moisture	

Report Basis

T = Total

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
500-22018-1	PZBF-1	113	105	100	117
MB 500-74253/5		106	104	99	112
LCS 500-74253/6		102	108	114	108
500-22018-1 MS	PZBF-1 MS	107	111	119	115
500-22018-1 MSD	PZBF-1 MSD	96	108	107	105

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	75-140
TOL = Toluene-d8 (Surr)	75-132
BFB = 4-Bromofluorobenzene (Surr)	75-122
DBFM = Dibromofluoromethane	75-140

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Surrogate Recovery Report**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-22018-1	PZBF-1	42	57	30	29	72	63
MB 500-74202/1-A		90	90	83	84	75	94
LCS 500-74202/2-A		85	96	84	94	89	99

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	26-110
PHL = Phenol-d5	27-110
NBZ = Nitrobenzene-d5	20-110
FBP = 2-Fluorobiphenyl	27-113
TBP = 2,4,6-Tribromophenol	30-137
TPH = Terphenyl-d14	34-127

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74253

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 500-74253/5

Analysis Batch: 500-74253

Instrument ID: Agilent 6890N GC - 5973N

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: 16M1026.D

Dilution: 1.0

Units: ug/Kg

Initial Weight/Volume: 5 g

Date Analyzed: 10/26/2009 0842

Final Weight/Volume: 5 mL

Date Prepared: 10/26/2009 0842

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	5.0	U	1.5	5.0
Chloromethane	5.0	U	1.0	5.0
Vinyl chloride	5.0	U	0.50	5.0
Bromomethane	5.0	U	1.3	5.0
Chloroethane	5.0	U	0.87	5.0
Trichlorofluoromethane	5.0	U	0.57	5.0
1,1-Dichloroethene	5.0	U	0.86	5.0
Carbon disulfide	5.0	U	0.74	5.0
Acetone	5.0	U	1.8	5.0
Methylene Chloride	5.0	U	1.9	5.0
trans-1,2-Dichloroethene	5.0	U	0.77	5.0
Methyl tert-butyl ether	5.0	U	0.88	5.0
1,1-Dichloroethane	5.0	U	0.68	5.0
2,2-Dichloropropane	5.0	U	0.80	5.0
cis-1,2-Dichloroethene	5.0	U	0.78	5.0
Methyl Ethyl Ketone	5.0	U	1.2	5.0
Bromochloromethane	5.0	U	0.95	5.0
Chloroform	5.0	U	0.78	5.0
1,1,1-Trichloroethane	5.0	U	0.63	5.0
1,1-Dichloropropene	5.0	U	0.68	5.0
Carbon tetrachloride	5.0	U	0.61	5.0
Benzene	5.0	U	0.74	5.0
1,2-Dichloroethane	5.0	U	0.88	5.0
Trichloroethene	5.0	U	0.56	5.0
1,2-Dichloropropane	5.0	U	0.72	5.0
Dibromomethane	5.0	U	0.82	5.0
Bromodichloromethane	5.0	U	0.71	5.0
cis-1,3-Dichloropropene	5.0	U	0.69	5.0
methyl isobutyl ketone	5.0	U	0.52	5.0
Toluene	5.0	U	0.70	5.0
trans-1,3-Dichloropropene	5.0	U	0.61	5.0
1,1,2-Trichloroethane	5.0	U	0.79	5.0
Tetrachloroethene	5.0	U	0.88	5.0
1,3-Dichloropropane	5.0	U	0.84	5.0
2-Hexanone	5.0	U	0.73	5.0
Dibromochloromethane	5.0	U	0.57	5.0
1,2-Dibromoethane	5.0	U	0.60	5.0
Chlorobenzene	5.0	U	0.72	5.0
1,1,1,2-Tetrachloroethane	5.0	U	0.56	5.0
Ethylbenzene	5.0	U	0.72	5.0
m&p-Xylene	10	U	1.4	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74253

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 500-74253/5

Analysis Batch: 500-74253

Instrument ID: Agilent 6890N GC - 5973N

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: 16M1026.D

Dilution: 1.0

Units: ug/Kg

Initial Weight/Volume: 5 g

Date Analyzed: 10/26/2009 0842

Final Weight/Volume: 5 mL

Date Prepared: 10/26/2009 0842

Analyte	Result	Qual	MDL	RL
o-Xylene	5.0	U	0.69	5.0
Styrene	5.0	U	0.58	5.0
Bromoform	5.0	U	0.74	5.0
Isopropylbenzene	5.0	U	0.70	5.0
Bromobenzene	5.0	U	0.77	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.70	5.0
1,2,3-Trichloropropane	5.0	U	0.81	5.0
N-Propylbenzene	5.0	U	0.65	5.0
2-Chlorotoluene	5.0	U	0.74	5.0
1,3,5-Trimethylbenzene	5.0	U	0.75	5.0
4-Chlorotoluene	5.0	U	0.81	5.0
tert-Butylbenzene	5.0	U	0.60	5.0
1,2,4-Trimethylbenzene	5.0	U	0.66	5.0
sec-Butylbenzene	5.0	U	0.69	5.0
p-Isopropyltoluene	5.0	U	0.71	5.0
n-Butylbenzene	5.0	U	0.76	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	1.5	5.0
1,2,3-Trichlorobenzene	5.0	U	0.85	5.0
Surrogate	% Rec	Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	106	75 - 140		
Toluene-d8 (Surr)	104	75 - 132		
4-Bromofluorobenzene (Surr)	99	75 - 122		
Dibromofluoromethane	112	75 - 140		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Control Sample - Batch: 500-74253

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-74253/6

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 10/26/2009 0909

Date Prepared: 10/26/2009 0909

Analysis Batch: 500-74253

Prep Batch: N/A

Units: ug/Kg

Instrument ID: Agilent 6890N GC - 5973N

Lab File ID: 16S1026.D

Initial Weight/Volume: 5 g

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	50.0	49.5	99	43 - 164	
Chloromethane	50.0	46.5	93	44 - 120	
Vinyl chloride	50.0	40.8	82	53 - 140	
Bromomethane	50.0	49.0	98	40 - 154	
Chloroethane	50.0	49.2	98	48 - 131	
Trichlorofluoromethane	50.0	47.4	95	44 - 134	
1,1-Dichloroethene	50.0	40.7	81	53 - 123	
Carbon disulfide	50.0	36.4	73	31 - 120	
Acetone	50.0	42.3	85	31 - 140	
Methylene Chloride	50.0	44.8	90	63 - 120	
trans-1,2-Dichloroethene	50.0	45.4	91	67 - 120	
Methyl tert-butyl ether	50.0	44.2	88	57 - 120	
1,1-Dichloroethane	50.0	45.1	90	69 - 120	
2,2-Dichloropropane	50.0	47.0	94	58 - 120	
cis-1,2-Dichloroethene	50.0	44.9	90	75 - 120	
Methyl Ethyl Ketone	50.0	40.4	81	51 - 120	
Bromochloromethane	50.0	44.9	90	69 - 120	
Chloroform	50.0	46.2	92	72 - 120	
1,1,1-Trichloroethane	50.0	46.8	94	65 - 120	
1,1-Dichloropropene	50.0	46.1	92	68 - 120	
Carbon tetrachloride	50.0	46.3	93	66 - 120	
Benzene	50.0	45.1	90	73 - 120	
1,2-Dichloroethane	50.0	44.6	89	72 - 120	
Trichloroethene	50.0	46.1	92	76 - 120	
1,2-Dichloropropane	50.0	47.1	94	73 - 120	
Dibromomethane	50.0	45.1	90	77 - 120	
Bromodichloromethane	50.0	44.8	90	77 - 120	
cis-1,3-Dichloropropene	53.8	45.1	84	69 - 120	
methyl isobutyl ketone	50.0	42.9	86	58 - 120	
Toluene	50.0	46.2	92	79 - 120	
trans-1,3-Dichloropropene	48.6	40.6	84	66 - 120	
1,1,2-Trichloroethane	50.0	45.3	91	76 - 120	
Tetrachloroethene	50.0	46.1	92	73 - 120	
1,3-Dichloropropane	50.0	46.9	94	80 - 120	
2-Hexanone	50.0	48.8	98	55 - 120	
Dibromochloromethane	50.0	46.8	94	73 - 120	
1,2-Dibromoethane	50.0	45.7	91	72 - 120	
Chlorobenzene	50.0	47.7	95	78 - 120	
1,1,1,2-Tetrachloroethane	50.0	48.4	97	80 - 120	
Ethylbenzene	50.0	50.1	100	77 - 120	
m&p-Xylene	100	98.5	98	79 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Control Sample - Batch: 500-74253

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 500-74253/6

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 10/26/2009 0909

Date Prepared: 10/26/2009 0909

Analysis Batch: 500-74253

Prep Batch: N/A

Units: ug/Kg

Instrument ID: Agilent 6890N GC - 5973N

Lab File ID: 16S1026.D

Initial Weight/Volume: 5 g

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
o-Xylene	50.0	50.7	101	80 - 120	
Styrene	50.0	50.9	102	78 - 120	
Bromoform	50.0	48.8	98	67 - 120	
Isopropylbenzene	50.0	41.3	83	67 - 120	
Bromobenzene	50.0	50.1	100	78 - 120	
1,1,2,2-Tetrachloroethane	50.0	46.7	93	78 - 120	
1,2,3-Trichloropropane	50.0	47.1	94	73 - 120	
N-Propylbenzene	50.0	50.4	101	74 - 120	
2-Chlorotoluene	50.0	50.5	101	74 - 120	
1,3,5-Trimethylbenzene	50.0	51.6	103	75 - 120	
4-Chlorotoluene	50.0	49.4	99	74 - 120	
tert-Butylbenzene	50.0	48.6	97	75 - 120	
1,2,4-Trimethylbenzene	50.0	51.6	103	77 - 120	
sec-Butylbenzene	50.0	51.4	103	74 - 120	
p-Isopropyltoluene	50.0	49.4	99	73 - 120	
n-Butylbenzene	50.0	48.5	97	73 - 120	
1,2-Dibromo-3-Chloropropane	50.0	43.6	87	64 - 120	
1,2,3-Trichlorobenzene	50.0	49.4	99	65 - 120	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	102		75 - 140		
Toluene-d8 (Surr)	108		75 - 132		
4-Bromofluorobenzene (Surr)	114		75 - 122		
Dibromofluoromethane	108		75 - 140		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-74253

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1001
Date Prepared: 10/26/2009 1001

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 22018-01S.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1028
Date Prepared: 10/26/2009 1028

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 22018-01T.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Dichlorodifluoromethane	104	95	43 - 164	8	30		
Chloromethane	99	90	44 - 120	9	30		
Vinyl chloride	87	82	53 - 140	6	30		
Bromomethane	100	92	40 - 154	8	30		
Chloroethane	111	100	48 - 131	10	30		
Trichlorofluoromethane	101	93	44 - 134	8	30		
1,1-Dichloroethene	88	90	53 - 123	1	30		
Carbon disulfide	77	79	31 - 120	3	30		
Acetone	85	89	31 - 140	4	30		
Methylene Chloride	94	94	63 - 120	0	30		
trans-1,2-Dichloroethene	94	96	67 - 120	2	30		
Methyl tert-butyl ether	90	83	57 - 120	7	30		
1,1-Dichloroethane	93	97	69 - 120	3	30		
2,2-Dichloropropane	99	103	58 - 120	4	30		
cis-1,2-Dichloroethene	89	95	75 - 120	6	30		
Methyl Ethyl Ketone	80	89	51 - 120	10	30		
Bromochloromethane	89	85	69 - 120	5	30		
Chloroform	93	97	72 - 120	3	30		
1,1,1-Trichloroethane	97	101	65 - 120	4	30		
1,1-Dichloropropene	94	101	68 - 120	6	30		
Carbon tetrachloride	96	96	66 - 120	0	30		
Benzene	90	94	73 - 120	4	30		
1,2-Dichloroethane	86	91	72 - 120	5	30		
Trichloroethene	91	97	76 - 120	6	30		
1,2-Dichloropropane	93	101	73 - 120	8	30		
Dibromomethane	91	93	77 - 120	2	30		
Bromodichloromethane	86	93	77 - 120	7	30		
cis-1,3-Dichloropropene	81	93	69 - 120	14	30		
methyl isobutyl ketone	86	91	58 - 120	5	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-74253

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1001
Date Prepared: 10/26/2009 1001

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 22018-01S.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1028
Date Prepared: 10/26/2009 1028

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 22018-01T.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Toluene	92	102	79 - 120	11	30		
trans-1,3-Dichloropropene	81	91	66 - 120	12	30		
1,1,2-Trichloroethane	92	99	76 - 120	8	30		
Tetrachloroethene	91	102	73 - 120	11	30		
1,3-Dichloropropane	90	101	80 - 120	12	30		
2-Hexanone	93	102	55 - 120	10	30		
Dibromochloromethane	89	95	73 - 120	7	30		
1,2-Dibromoethane	92	94	72 - 120	2	30		
Chlorobenzene	93	100	78 - 120	7	30		
1,1,1,2-Tetrachloroethane	94	100	80 - 120	6	30		
Ethylbenzene	97	106	77 - 120	9	30		
m&p-Xylene	99	105	79 - 120	6	30		
o-Xylene	98	104	80 - 120	6	30		
Styrene	99	104	78 - 120	5	30		
Bromoform	93	97	67 - 120	4	30		
Isopropylbenzene	79	90	67 - 120	13	30		
Bromobenzene	94	105	78 - 120	11	30		
1,1,2,2-Tetrachloroethane	89	98	78 - 120	10	30		
1,2,3-Trichloropropane	90	99	73 - 120	9	30		
N-Propylbenzene	96	108	74 - 120	12	30		
2-Chlorotoluene	95	107	74 - 120	12	30		
1,3,5-Trimethylbenzene	98	110	75 - 120	11	30		
4-Chlorotoluene	92	105	74 - 120	13	30		
tert-Butylbenzene	92	102	75 - 120	11	30		
1,2,4-Trimethylbenzene	99	110	77 - 120	11	30		
sec-Butylbenzene	98	109	74 - 120	11	30		
p-Isopropyltoluene	93	105	73 - 120	12	30		
n-Butylbenzene	93	103	73 - 120	11	30		
1,2-Dibromo-3-Chloropropane	83	93	64 - 120	12	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-74253

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1001
Date Prepared: 10/26/2009 1001

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 22018-01S.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 500-22018-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1028
Date Prepared: 10/26/2009 1028

Analysis Batch: 500-74253
Prep Batch: N/A

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 22018-01T.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,2,3-Trichlorobenzene	92	104	65 - 120	12	30		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	107		96	75 - 140			
Toluene-d8 (Surr)	111		108	75 - 132			
4-Bromofluorobenzene (Surr)	119		107	75 - 122			
Dibromofluoromethane	115		105	75 - 140			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74202

Method: 8270C Preparation: 3541

Lab Sample ID: MB 500-74202/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 1258
Date Prepared: 10/26/2009 0804

Analysis Batch: 500-74358
Prep Batch: 500-74202
Units: ug/Kg

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 74202M.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 0.5 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Phenol	170	U	29	170
Bis(2-chloroethyl)ether	170	U	22	170
1,3-Dichlorobenzene	170	U	17	170
1,4-Dichlorobenzene	170	U	18	170
1,2-Dichlorobenzene	170	U	17	170
Benzyl alcohol	330	U	52	330
2-Methylphenol	170	U	33	170
2,2'-oxybis[1-chloropropane]	170	U	17	170
N-Nitrosodi-n-propylamine	170	U	23	170
Hexachloroethane	170	U	18	170
2-Chlorophenol	170	U	29	170
Nitrobenzene	33	U	6.1	33
Bis(2-chloroethoxy)methane	170	U	21	170
1,2,4-Trichlorobenzene	170	U	16	170
Benzoic acid	1700	U	280	1700
Isophorone	170	U	14	170
2,4-Dimethylphenol	330	U	61	330
Hexachlorobutadiene	170	U	19	170
Naphthalene	33	U	3.4	33
2,4-Dichlorophenol	330	U	36	330
4-Chloroaniline	670	U	130	670
2,4,6-Trichlorophenol	330	U	34	330
2,4,5-Trichlorophenol	330	U	47	330
Hexachlorocyclopentadiene	670	U	110	670
2-Methylnaphthalene	170	U	19	170
2-Nitroaniline	170	U	18	170
2-Chloronaphthalene	170	U	15	170
4-Chloro-3-methylphenol	330	U	81	330
2,6-Dinitrotoluene	170	U	18	170
2-Nitrophenol	330	U	40	330
3-Nitroaniline	330	U	65	330
Dimethyl phthalate	170	U	13	170
2,4-Dinitrophenol	670	U	180	670
Acenaphthylene	33	U	3.5	33
2,4-Dinitrotoluene	170	U	18	170
Acenaphthene	33	U	4.2	33
Dibenzofuran	170	U	12	170
4-Nitrophenol	670	U	58	670
Fluorene	33	U	3.5	33
4-Nitroaniline	330	U	71	330
4-Bromophenyl phenyl ether	170	U	13	170

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74202

Lab Sample ID: MB 500-74202/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 1258
Date Prepared: 10/26/2009 0804

Analysis Batch: 500-74358
Prep Batch: 500-74202
Units: ug/Kg

Method: 8270C Preparation: 3541

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 74202M.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 0.5 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Hexachlorobenzene	67	U	4.8	67
Diethyl phthalate	170	U	17	170
4-Chlorophenyl phenyl ether	170	U	14	170
Pentachlorophenol	670	U	120	670
N-Nitrosodiphenylamine	170	U	9.9	170
4,6-Dinitro-2-methylphenol	330	U	40	330
Phenanthrene	33	U	2.9	33
Anthracene	33	U	3.9	33
Carbazole	170	U	13	170
Di-n-butyl phthalate	170	U	13	170
Benzidine	670	U	150	670
Fluoranthene	33	U	4.3	33
Pyrene	33	U	3.9	33
Butyl benzyl phthalate	170	U	15	170
Benzo[a]anthracene	33	U	4.2	33
Chrysene	33	U	5.2	33
3,3'-Dichlorobenzidine	170	U	49	170
Bis(2-ethylhexyl) phthalate	170	U	28	170
Di-n-octyl phthalate	170	U	15	170
Benzo[b]fluoranthene	33	U	7.3	33
Benzo[k]fluoranthene	33	U	7.1	33
Benzo[a]pyrene	33	U	3.1	33
Indeno[1,2,3-cd]pyrene	33	U	4.3	33
Dibenz(a,h)anthracene	33	U	4.1	33
Benzo[g,h,i]perylene	33	U	5.7	33
3 & 4 Methylphenol	170	U	31	170
Surrogate	% Rec	Acceptance Limits		
2-Fluorophenol	90	26 - 110		
Phenol-d5	90	27 - 110		
Nitrobenzene-d5	83	20 - 110		
2-Fluorobiphenyl	84	27 - 113		
2,4,6-Tribromophenol	75	30 - 137		
Terphenyl-d14	94	34 - 127		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Control Sample - Batch: 500-74202

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 500-74202/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 1346
Date Prepared: 10/26/2009 0804

Analysis Batch: 500-74358
Prep Batch: 500-74202
Units: ug/Kg

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 74202BS.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 0.5 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	1670	1500	90	55 - 110	
Bis(2-chloroethyl)ether	1670	1490	89	49 - 110	
1,3-Dichlorobenzene	1670	1380	83	56 - 110	
1,4-Dichlorobenzene	1670	1390	83	56 - 110	
1,2-Dichlorobenzene	1670	1420	85	57 - 110	
Benzyl alcohol	1670	1530	92	58 - 110	
2-Methylphenol	1670	1610	97	59 - 110	
2,2'-oxybis[1-chloropropane]	1670	1280	77	40 - 110	
N-Nitrosodi-n-propylamine	1670	1490	89	52 - 110	
Hexachloroethane	1670	1230	74	59 - 110	
2-Chlorophenol	1670	1400	84	62 - 110	
Nitrobenzene	1670	1440	87	58 - 110	
Bis(2-chloroethoxy)methane	1670	1410	85	62 - 110	
1,2,4-Trichlorobenzene	1670	1430	86	59 - 110	
Benzoic acid	1670	921	55	10 - 110	J
Isophorone	1670	1550	93	54 - 110	
2,4-Dimethylphenol	1670	1780	107	62 - 110	
Hexachlorobutadiene	1670	1480	89	61 - 110	
Naphthalene	1670	1410	84	57 - 110	
2,4-Dichlorophenol	1670	1570	94	64 - 110	
4-Chloroaniline	1670	772	46	35 - 110	
2,4,6-Trichlorophenol	1670	1450	87	58 - 120	
2,4,5-Trichlorophenol	1670	1450	87	62 - 118	
Hexachlorocyclopentadiene	1670	861	52	21 - 110	
2-Methylnaphthalene	1670	1430	86	59 - 110	
2-Nitroaniline	1670	1720	103	56 - 126	
2-Chloronaphthalene	1670	1440	87	61 - 110	
4-Chloro-3-methylphenol	1670	1580	95	61 - 110	
2,6-Dinitrotoluene	1670	1690	101	65 - 113	
2-Nitrophenol	1670	1480	89	61 - 110	
3-Nitroaniline	1670	920	55	36 - 122	
Dimethyl phthalate	1670	1510	91	64 - 110	
2,4-Dinitrophenol	1670	966	58	10 - 110	
Acenaphthylene	1670	1470	88	60 - 110	
2,4-Dinitrotoluene	1670	1470	88	62 - 117	
Acenaphthene	1670	1370	82	59 - 110	
Dibenzofuran	1670	1470	88	61 - 110	
4-Nitrophenol	1670	1380	83	41 - 125	
Fluorene	1670	1440	86	55 - 113	
4-Nitroaniline	1670	1360	81	52 - 120	
4-Bromophenyl phenyl ether	1670	1600	96	66 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Lab Control Sample - Batch: 500-74202

Method: 8270C
Preparation: 3541

Lab Sample ID: LCS 500-74202/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 1346
Date Prepared: 10/26/2009 0804

Analysis Batch: 500-74358
Prep Batch: 500-74202
Units: ug/Kg

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 74202BS.D
Initial Weight/Volume: 15.0000 g
Final Weight/Volume: 0.5 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobenzene	1670	1510	91	62 - 110	
Diethyl phthalate	1670	1450	87	62 - 110	
4-Chlorophenyl phenyl ether	1670	1510	91	63 - 110	
Pentachlorophenol	1670	1310	79	26 - 110	
N-Nitrosodiphenylamine	1670	1690	101	49 - 135	
4,6-Dinitro-2-methylphenol	1670	1390	83	20 - 110	
Phenanthrene	1670	1430	86	58 - 110	
Anthracene	1670	1530	92	59 - 110	
Carbazole	1670	1630	98	60 - 110	
Di-n-butyl phthalate	1670	1570	94	61 - 112	
Benzidine	1670	1090	65	10 - 154	
Fluoranthene	1670	1460	88	56 - 110	
Pyrene	1670	1370	82	57 - 115	
Butyl benzyl phthalate	1670	1440	87	60 - 117	
Benzo[a]anthracene	1670	1300	78	55 - 115	
Chrysene	1670	1330	80	55 - 115	
3,3'-Dichlorobenzidine	1670	979	59	42 - 110	
Bis(2-ethylhexyl) phthalate	1670	1450	87	59 - 117	
Di-n-octyl phthalate	1670	1940	116	49 - 115	*
Benzo[b]fluoranthene	1670	1750	105	50 - 110	
Benzo[k]fluoranthene	1670	1620	97	44 - 110	
Benzo[a]pyrene	1670	1670	100	54 - 110	
Indeno[1,2,3-cd]pyrene	1670	1580	95	49 - 110	
Dibenz(a,h)anthracene	1670	1610	97	42 - 111	
Benzo[g,h,i]perylene	1670	1570	94	53 - 111	
3 & 4 Methylphenol	1670	1590	95	56 - 110	
Surrogate	% Rec		Acceptance Limits		
2-Fluorophenol	85		26 - 110		
Phenol-d5	96		27 - 110		
Nitrobenzene-d5	84		20 - 110		
2-Fluorobiphenyl	94		27 - 113		
2,4,6-Tribromophenol	89		30 - 137		
Terphenyl-d14	99		34 - 127		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74204

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 500-74204/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1539
Date Prepared: 10/26/2009 0835

Analysis Batch: 500-74290
Prep Batch: 500-74204
Units: mg/Kg

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P51026C
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Arsenic	1.0	U	0.13	1.0
Barium	1.0	U	0.094	1.0
Cadmium	0.20	U	0.036	0.20
Chromium	0.150	J	0.076	1.0
Lead	0.50	U	0.23	0.50
Selenium	1.0	U	0.28	1.0
Silver	0.50	U	0.066	0.50

Lab Control Sample - Batch: 500-74204

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 500-74204/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/26/2009 1545
Date Prepared: 10/26/2009 0835

Analysis Batch: 500-74290
Prep Batch: 500-74204
Units: mg/Kg

Instrument ID: TJA ICAP 61E Trace Analy
Lab File ID: P51026C
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	10.0	9.44	94	80 - 120	
Barium	200	203	101	80 - 120	
Cadmium	5.00	4.83	97	80 - 120	
Chromium	20.0	20.3	102	80 - 120	
Lead	10.0	10.2	102	80 - 120	
Selenium	10.0	9.33	93	80 - 120	
Silver	5.00	5.00	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Method Blank - Batch: 500-74219

Lab Sample ID: MB 500-74219/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 0814
Date Prepared: 10/26/2009 0915

Analysis Batch: 500-74325
Prep Batch: 500-74219
Units: ug/Kg

Method: 7471A Preparation: 7471A

Instrument ID: Leeman Labs PS200 Mercur
Lab File ID: N/A
Initial Weight/Volume: 0.6 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	12.6	J	9.1	17

Lab Control Sample - Batch: 500-74219

Lab Sample ID: LCS 500-74219/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/27/2009 0820
Date Prepared: 10/26/2009 0915

Analysis Batch: 500-74325
Prep Batch: 500-74219
Units: ug/Kg

Method: 7471A Preparation: 7471A

Instrument ID: Leeman Labs PS200 Mercur
Lab File ID: N/A
Initial Weight/Volume: 0.6 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	167	153	92	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

500-22018

*U.S. GPO: 2002-756-917/40053

Login Sample Receipt Check List

Client: Environmental Restoration LLC

Job Number: 500-22018-1

Login Number: 22018

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.6
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	