

ANALYTICAL REPORT

Job Number: 200-10396-1

SDG Number: PRR1220

Job Description: LPRSA - Phase I Removal Action

For:

ARCADIS U.S. Inc
2300 Eastlake Avenue, East
Suite 140
Seattle, WA 98102

Attention: Ms. Shannon Dunn



Approved for release.
Kirk F Young
Project Manager I
5/4/2012 3:01 PM

Kirk F Young
Project Manager I
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05/04/2012

cc: Mr. Joe Houser
Mr. Don Reed
Mr. Ryan Shatt

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: LPRSA - Phase I Removal Action

Report Number: PRR1220 (200-10396-1)

Enclosed is the data set for the referenced project work. With the exceptions noted as flags or footnotes, standard analytical protocols were followed in performing the analytical work and the applied control limits were met.

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

All holding times were met and proper preservation noted for the methods of analysis.

Manual integration was employed in deriving certain of the analytical results.

Positive instrument responses in the analysis of samples and quality controls were evaluated to the established method detection limit (MDL).

This is an abbreviated report. A more formal report will be issued in a CLP-like format, with supportive documentation and further narrative discussion.

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Low/Medium Volatiles	TAL BUR	SOM01.2 SOM01.2/VOA	
Volatile sample preservation, Lab Preserved Low	TAL BUR		SOM01.2 SOM01.2/VOA_PR
Semivolatiles	TAL BUR	SOM01.2 SOM01.2/SV	
Extraction Solid/Sediment Samples	TAL BUR		SOM01.2 SONC
Gel-Permeation Clean up	TAL BUR		SOM01.2 SOM01.2/GPC
Aroclors	TAL BUR	SOM01.2 SOM01.2/PCB	
Extraction Solid/Sediment Samples	TAL BUR		SOM01.2 SONC
Sulfuric Acid/Permanganate Cleanup	TAL BUR		SOM01.2 SOM01.2/SO4CU
Pesticides	TAL BUR	SOM01.2 SOM01.2/Pest	
Extraction Solid/Sediment Samples	TAL BUR		SOM01.2 SONC
Gel-Permeation Clean up	TAL BUR		SOM01.2 SOM01.2/GPC
ISM01.2 Mercury	TAL BUR	ISM01.2 ISM01.2/HG	
7471B	TAL BUR		SW846 7471B
ISM01.2 Metals (ICP)	TAL BUR	ISM01.2 ISM01.2/ICP	
3050B	TAL BUR		SW846 3050B
Matrix Water			
Low/Medium Volatiles	TAL BUR	SOM01.2 SOM01.2/VOA	
Volatile sample preservation, Field Preserved Water	TAL BUR		SOM01.2 SOM01.2/VOA_PR

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

ISM01.2 = U.S. Environmental Protection Agency

SOM01.2 = U.S. Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method	Analyst	Analyst ID
SOM01.2 SOM01.2/VOA	Phillips, Mark T	MTP
SOM01.2 SOM01.2/SV	Bissonette, Donald J	DJB
SOM01.2 SOM01.2/PCB	Duncan, Stacey L	SLD
SOM01.2 SOM01.2/Pest	Downing, David P	DPD
SOM01.2 SOM01.2/Pest	Lambert, Kelly T	KTL
ISM01.2 ISM01.2/HG	Pham, Vu T	VTP
ISM01.2 ISM01.2/ICP	Lyons, Benjamin	BL

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-10396-1	PRR1SOLBF-01	Solid	04/17/2012 1300	04/18/2012 1020
200-10396-2	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MS	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MSD	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2DU	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-3	PRR1SOLBF-03	Solid	04/17/2012 1320	04/18/2012 1020
200-10396-4	PRR1SOLBF-04	Solid	04/17/2012 1330	04/18/2012 1020
200-10396-5	PRR1SOLBF-05	Solid	04/17/2012 1340	04/18/2012 1020
200-10396-6	PRR1SOLBF-06	Solid	04/17/2012 1350	04/18/2012 1020
200-10425-1	PRR1SOLBF-01	Solid	04/20/2012 1300	04/21/2012 0935
200-10425-2	PRR1SOLBF-02	Solid	04/20/2012 1310	04/21/2012 0935
200-10425-2MS	PRR1SOLBF-02	Solid	04/20/2012 1310	04/21/2012 0935
200-10425-2MSD	PRR1SOLBF-02	Solid	04/20/2012 1310	04/21/2012 0935
200-10425-3	PRR1SOLBF-03	Solid	04/20/2012 1320	04/21/2012 0935
200-10425-4	PRR1SOLBF-04	Solid	04/20/2012 1330	04/21/2012 0935
200-10425-5	PRR1SOLBF-05	Solid	04/20/2012 1340	04/21/2012 0935
200-10425-6	PRR1SOLBF-06	Solid	04/20/2012 1350	04/21/2012 0935
200-10425-7	TB04172012	Water	04/20/2012 0000	04/21/2012 0935
200-10425-9STOBL	VHBLKLS	Solid	04/21/2012 1250	04/21/2012 0935

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SAMPLE RESULTS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10425-1

Date Sampled: 04/20/2012 1300

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb05.d
Dilution:	1.0			Initial Weight/Volume:	7.77 g
Analysis Date:	04/24/2012 1135			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		3.2	U	3.2
Chloromethane		3.2	U	3.2
Vinyl chloride		3.2	U	3.2
Bromomethane		3.2	U	3.2
Chloroethane		3.2	U	3.2
Trichlorofluoromethane		3.2	U	3.2
1,1-Dichloroethene		3.2	U	3.2
1,1,2-Trichloro-1,2,2-trifluoroethane		3.2	U	3.2
Acetone		6.5	U	6.5
Carbon disulfide		3.2	U	3.2
Methyl acetate		3.2	U	3.2
Methylene chloride		0.27	J B	3.2
trans-1,2-Dichloroethene		3.2	U	3.2
Methyl tert-butyl ether		3.2	U	3.2
1,1-Dichloroethane		3.2	U	3.2
cis-1,2-Dichloroethene		3.2	U	3.2
2-Butanone		6.5	U	6.5
Bromochloromethane		3.2	U	3.2
Chloroform		3.2	U	3.2
1,1,1-Trichloroethane		3.2	U	3.2
Cyclohexane		3.2	U	3.2
Carbon tetrachloride		3.2	U	3.2
Benzene		3.2	U	3.2
1,2-Dichloroethane		3.2	U	3.2
1,4-Dioxane		65	U	65
Trichloroethene		3.2	U	3.2
Methylcyclohexane		3.2	U	3.2
1,2-Dichloropropane		3.2	U	3.2
Bromodichloromethane		3.2	U	3.2
cis-1,3-Dichloropropene		3.2	U	3.2
4-Methyl-2-pentanone		6.5	U	6.5
Toluene		0.052	J B	3.2
trans-1,3-Dichloropropene		3.2	U	3.2
1,1,2-Trichloroethane		3.2	U	3.2
Tetrachloroethene		3.2	U	3.2
2-Hexanone		6.5	U	6.5
Dibromochloromethane		3.2	U	3.2
1,2-Dibromoethane		3.2	U	3.2
Chlorobenzene		3.2	U	3.2
Ethylbenzene		3.2	U	3.2
o-Xylene		3.2	U	3.2
m,p-Xylene		3.2	U	3.2
Styrene		3.2	U	3.2
Bromoform		3.2	U	3.2
Isopropylbenzene		3.2	U	3.2
1,1,2,2-Tetrachloroethane		3.2	U	3.2

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10425-1

Date Sampled: 04/20/2012 1300

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37493	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: 200-37334	Lab File ID: nfwb05.d
Dilution: 1.0		Initial Weight/Volume: 7.77 g
Analysis Date: 04/24/2012 1135		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		3.2	U	3.2
1,4-Dichlorobenzene		3.2	U	3.2
1,2-Dichlorobenzene		3.2	U	3.2
1,2-Dibromo-3-chloropropane		3.2	U	3.2
1,2,4-Trichlorobenzene		0.15	J B	3.2
1,2,3-Trichlorobenzene		0.16	J B	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	79		68 - 122
Chloroethane-d5	87		61 - 130
1,1-Dichloroethene-d2	65		45 - 132
2-Butanone-d5	98		20 - 182
Chloroform-d	87		72 - 123
1,2-Dichloroethane-d4	84		79 - 122
Benzene-d6	89		80 - 121
1,2-Dichloropropane-d6	83		74 - 124
Toluene-d8	91		78 - 121
trans-1,3-Dichloropropene-d4	86		72 - 130
2-Hexanone-d5	109		17 - 184
1,4-Dioxane-d8	84		50 - 150
1,1,2,2-Tetrachloroethane-d2	91		56 - 161
1,2-Dichlorobenzene-d4	93		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10425-2

Date Sampled: 04/20/2012 1310

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb06.d
Dilution:	1.0			Initial Weight/Volume:	7.97 g
Analysis Date:	04/24/2012 1204			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		3.1	U	3.1
Chloromethane		3.1	U	3.1
Vinyl chloride		3.1	U	3.1
Bromomethane		3.1	U	3.1
Chloroethane		3.1	U	3.1
Trichlorofluoromethane		3.1	U	3.1
1,1-Dichloroethene		3.1	U	3.1
1,1,2-Trichloro-1,2,2-trifluoroethane		3.1	U	3.1
Acetone		6.3	U	6.3
Carbon disulfide		3.1	U	3.1
Methyl acetate		3.1	U	3.1
Methylene chloride		0.11	J B	3.1
trans-1,2-Dichloroethene		3.1	U	3.1
Methyl tert-butyl ether		3.1	U	3.1
1,1-Dichloroethane		3.1	U	3.1
cis-1,2-Dichloroethene		3.1	U	3.1
2-Butanone		6.3	U	6.3
Bromochloromethane		3.1	U	3.1
Chloroform		3.1	U	3.1
1,1,1-Trichloroethane		3.1	U	3.1
Cyclohexane		3.1	U	3.1
Carbon tetrachloride		3.1	U	3.1
Benzene		3.1	U	3.1
1,2-Dichloroethane		3.1	U	3.1
1,4-Dioxane		63	U	63
Trichloroethene		3.1	U	3.1
Methylcyclohexane		3.1	U	3.1
1,2-Dichloropropane		3.1	U	3.1
Bromodichloromethane		3.1	U	3.1
cis-1,3-Dichloropropene		3.1	U	3.1
4-Methyl-2-pentanone		6.3	U	6.3
Toluene		0.067	J B	3.1
trans-1,3-Dichloropropene		3.1	U	3.1
1,1,2-Trichloroethane		3.1	U	3.1
Tetrachloroethene		3.1	U	3.1
2-Hexanone		6.3	U	6.3
Dibromochloromethane		3.1	U	3.1
1,2-Dibromoethane		3.1	U	3.1
Chlorobenzene		3.1	U	3.1
Ethylbenzene		3.1	U	3.1
o-Xylene		3.1	U	3.1
m,p-Xylene		3.1	U	3.1
Styrene		3.1	U	3.1
Bromoform		3.1	U	3.1
Isopropylbenzene		3.1	U	3.1
1,1,2,2-Tetrachloroethane		3.1	U	3.1

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10425-2

Date Sampled: 04/20/2012 1310

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37493	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: 200-37334	Lab File ID: nfwb06.d
Dilution: 1.0		Initial Weight/Volume: 7.97 g
Analysis Date: 04/24/2012 1204		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		3.1	U	3.1
1,4-Dichlorobenzene		3.1	U	3.1
1,2-Dichlorobenzene		3.1	U	3.1
1,2-Dibromo-3-chloropropane		3.1	U	3.1
1,2,4-Trichlorobenzene		0.11	J B	3.1
1,2,3-Trichlorobenzene		0.12	J B	3.1

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	83		68 - 122
Chloroethane-d5	92		61 - 130
1,1-Dichloroethene-d2	68		45 - 132
2-Butanone-d5	122		20 - 182
Chloroform-d	94		72 - 123
1,2-Dichloroethane-d4	91		79 - 122
Benzene-d6	98		80 - 121
1,2-Dichloropropane-d6	92		74 - 124
Toluene-d8	97		78 - 121
trans-1,3-Dichloropropene-d4	94		72 - 130
2-Hexanone-d5	133		17 - 184
1,4-Dioxane-d8	122		50 - 150
1,1,1,2-Tetrachloroethane-d2	108		56 - 161
1,2-Dichlorobenzene-d4	103		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10425-3

Date Sampled: 04/20/2012 1320

Client Matrix: Solid

% Moisture: 2.3

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb09.d
Dilution:	1.0			Initial Weight/Volume:	7.13 g
Analysis Date:	04/24/2012 1330			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		3.6	U	3.6
Chloromethane		3.6	U	3.6
Vinyl chloride		3.6	U	3.6
Bromomethane		3.6	U	3.6
Chloroethane		3.6	U	3.6
Trichlorofluoromethane		3.6	U	3.6
1,1-Dichloroethene		3.6	U	3.6
1,1,2-Trichloro-1,2,2-trifluoroethane		3.6	U	3.6
Acetone		7.2	U	7.2
Carbon disulfide		3.6	U	3.6
Methyl acetate		3.6	U	3.6
Methylene chloride		0.14	J B	3.6
trans-1,2-Dichloroethene		3.6	U	3.6
Methyl tert-butyl ether		3.6	U	3.6
1,1-Dichloroethane		3.6	U	3.6
cis-1,2-Dichloroethene		3.6	U	3.6
2-Butanone		7.2	U	7.2
Bromochloromethane		3.6	U	3.6
Chloroform		3.6	U	3.6
1,1,1-Trichloroethane		3.6	U	3.6
Cyclohexane		3.6	U	3.6
Carbon tetrachloride		3.6	U	3.6
Benzene		3.6	U	3.6
1,2-Dichloroethane		3.6	U	3.6
1,4-Dioxane		72	U	72
Trichloroethene		3.6	U	3.6
Methylcyclohexane		3.6	U	3.6
1,2-Dichloropropane		3.6	U	3.6
Bromodichloromethane		3.6	U	3.6
cis-1,3-Dichloropropene		3.6	U	3.6
4-Methyl-2-pentanone		7.2	U	7.2
Toluene		0.15	J B	3.6
trans-1,3-Dichloropropene		3.6	U	3.6
1,1,2-Trichloroethane		3.6	U	3.6
Tetrachloroethene		3.6	U	3.6
2-Hexanone		7.2	U	7.2
Dibromochloromethane		3.6	U	3.6
1,2-Dibromoethane		3.6	U	3.6
Chlorobenzene		3.6	U	3.6
Ethylbenzene		3.6	U	3.6
o-Xylene		3.6	U	3.6
m,p-Xylene		3.6	U	3.6
Styrene		3.6	U	3.6
Bromoform		3.6	U	3.6
Isopropylbenzene		3.6	U	3.6
1,1,2,2-Tetrachloroethane		3.6	U	3.6

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10425-3

Date Sampled: 04/20/2012 1320

Client Matrix: Solid

% Moisture: 2.3

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37493	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: 200-37334	Lab File ID: nfwb09.d
Dilution: 1.0		Initial Weight/Volume: 7.13 g
Analysis Date: 04/24/2012 1330		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		3.6	U	3.6
1,4-Dichlorobenzene		3.6	U	3.6
1,2-Dichlorobenzene		3.6	U	3.6
1,2-Dibromo-3-chloropropane		3.6	U	3.6
1,2,4-Trichlorobenzene		3.6	U	3.6
1,2,3-Trichlorobenzene		3.6	U	3.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	90		68 - 122
Chloroethane-d5	99		61 - 130
1,1-Dichloroethene-d2	73		45 - 132
2-Butanone-d5	122		20 - 182
Chloroform-d	102		72 - 123
1,2-Dichloroethane-d4	95		79 - 122
Benzene-d6	106		80 - 121
1,2-Dichloropropane-d6	99		74 - 124
Toluene-d8	103		78 - 121
trans-1,3-Dichloropropene-d4	95		72 - 130
2-Hexanone-d5	141		17 - 184
1,4-Dioxane-d8	127		50 - 150
1,1,2,2-Tetrachloroethane-d2	114		56 - 161
1,2-Dichlorobenzene-d4	110		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10425-4

Date Sampled: 04/20/2012 1330

Client Matrix: Solid

% Moisture: 1.1

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb10.d
Dilution:	1.0			Initial Weight/Volume:	6.68 g
Analysis Date:	04/24/2012 1358			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		3.8	U	3.8
Chloromethane		3.8	U	3.8
Vinyl chloride		3.8	U	3.8
Bromomethane		3.8	U	3.8
Chloroethane		3.8	U	3.8
Trichlorofluoromethane		3.8	U	3.8
1,1-Dichloroethene		3.8	U	3.8
1,1,2-Trichloro-1,2,2-trifluoroethane		3.8	U	3.8
Acetone		7.6	U	7.6
Carbon disulfide		3.8	U	3.8
Methyl acetate		3.8	U	3.8
Methylene chloride		0.19	J B	3.8
trans-1,2-Dichloroethene		3.8	U	3.8
Methyl tert-butyl ether		3.8	U	3.8
1,1-Dichloroethane		3.8	U	3.8
cis-1,2-Dichloroethene		3.8	U	3.8
2-Butanone		7.6	U	7.6
Bromochloromethane		3.8	U	3.8
Chloroform		3.8	U	3.8
1,1,1-Trichloroethane		3.8	U	3.8
Cyclohexane		3.8	U	3.8
Carbon tetrachloride		3.8	U	3.8
Benzene		3.8	U	3.8
1,2-Dichloroethane		3.8	U	3.8
1,4-Dioxane		76	U	76
Trichloroethene		3.8	U	3.8
Methylcyclohexane		3.8	U	3.8
1,2-Dichloropropane		3.8	U	3.8
Bromodichloromethane		3.8	U	3.8
cis-1,3-Dichloropropene		3.8	U	3.8
4-Methyl-2-pentanone		7.6	U	7.6
Toluene		0.081	J B	3.8
trans-1,3-Dichloropropene		3.8	U	3.8
1,1,2-Trichloroethane		3.8	U	3.8
Tetrachloroethene		3.8	U	3.8
2-Hexanone		7.6	U	7.6
Dibromochloromethane		3.8	U	3.8
1,2-Dibromoethane		3.8	U	3.8
Chlorobenzene		3.8	U	3.8
Ethylbenzene		3.8	U	3.8
o-Xylene		3.8	U	3.8
m,p-Xylene		3.8	U	3.8
Styrene		3.8	U	3.8
Bromoform		3.8	U	3.8
Isopropylbenzene		3.8	U	3.8
1,1,2,2-Tetrachloroethane		3.8	U	3.8

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10425-4

Date Sampled: 04/20/2012 1330

Client Matrix: Solid

% Moisture: 1.1

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37493	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: 200-37334	Lab File ID: nfwb10.d
Dilution: 1.0		Initial Weight/Volume: 6.68 g
Analysis Date: 04/24/2012 1358		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		3.8	U	3.8
1,4-Dichlorobenzene		3.8	U	3.8
1,2-Dichlorobenzene		3.8	U	3.8
1,2-Dibromo-3-chloropropane		3.8	U	3.8
1,2,4-Trichlorobenzene		3.8	U	3.8
1,2,3-Trichlorobenzene		3.8	U	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	87		68 - 122
Chloroethane-d5	95		61 - 130
1,1-Dichloroethene-d2	70		45 - 132
2-Butanone-d5	125		20 - 182
Chloroform-d	99		72 - 123
1,2-Dichloroethane-d4	96		79 - 122
Benzene-d6	101		80 - 121
1,2-Dichloropropane-d6	96		74 - 124
Toluene-d8	100		78 - 121
trans-1,3-Dichloropropene-d4	94		72 - 130
2-Hexanone-d5	137		17 - 184
1,4-Dioxane-d8	125		50 - 150
1,1,2,2-Tetrachloroethane-d2	112		56 - 161
1,2-Dichlorobenzene-d4	108		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10425-5

Date Sampled: 04/20/2012 1340

Client Matrix: Solid

% Moisture: 0.8

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb11.d
Dilution:	1.0			Initial Weight/Volume:	9.45 g
Analysis Date:	04/24/2012 1426			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		2.7	U	2.7
Chloromethane		2.7	U	2.7
Vinyl chloride		2.7	U	2.7
Bromomethane		2.7	U	2.7
Chloroethane		2.7	U	2.7
Trichlorofluoromethane		2.7	U	2.7
1,1-Dichloroethene		2.7	U	2.7
1,1,2-Trichloro-1,2,2-trifluoroethane		2.7	U	2.7
Acetone		5.3	U	5.3
Carbon disulfide		2.7	U	2.7
Methyl acetate		2.7	U	2.7
Methylene chloride		0.15	J B	2.7
trans-1,2-Dichloroethene		2.7	U	2.7
Methyl tert-butyl ether		2.7	U	2.7
1,1-Dichloroethane		2.7	U	2.7
cis-1,2-Dichloroethene		2.7	U	2.7
2-Butanone		5.3	U	5.3
Bromochloromethane		2.7	U	2.7
Chloroform		2.7	U	2.7
1,1,1-Trichloroethane		2.7	U	2.7
Cyclohexane		2.7	U	2.7
Carbon tetrachloride		2.7	U	2.7
Benzene		2.7	U	2.7
1,2-Dichloroethane		2.7	U	2.7
1,4-Dioxane		53	U	53
Trichloroethene		2.7	U	2.7
Methylcyclohexane		2.7	U	2.7
1,2-Dichloropropane		2.7	U	2.7
Bromodichloromethane		2.7	U	2.7
cis-1,3-Dichloropropene		2.7	U	2.7
4-Methyl-2-pentanone		5.3	U	5.3
Toluene		0.066	J B	2.7
trans-1,3-Dichloropropene		2.7	U	2.7
1,1,2-Trichloroethane		2.7	U	2.7
Tetrachloroethene		2.7	U	2.7
2-Hexanone		5.3	U	5.3
Dibromochloromethane		2.7	U	2.7
1,2-Dibromoethane		2.7	U	2.7
Chlorobenzene		2.7	U	2.7
Ethylbenzene		2.7	U	2.7
o-Xylene		2.7	U	2.7
m,p-Xylene		2.7	U	2.7
Styrene		2.7	U	2.7
Bromoform		2.7	U	2.7
Isopropylbenzene		2.7	U	2.7
1,1,2,2-Tetrachloroethane		2.7	U	2.7

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10425-5

Date Sampled: 04/20/2012 1340

Client Matrix: Solid

% Moisture: 0.8

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37493	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: 200-37334	Lab File ID: nfwb11.d
Dilution: 1.0		Initial Weight/Volume: 9.45 g
Analysis Date: 04/24/2012 1426		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		2.7	U	2.7
1,4-Dichlorobenzene		2.7	U	2.7
1,2-Dichlorobenzene		2.7	U	2.7
1,2-Dibromo-3-chloropropane		2.7	U	2.7
1,2,4-Trichlorobenzene		2.7	U	2.7
1,2,3-Trichlorobenzene		2.7	U	2.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	91		68 - 122
Chloroethane-d5	99		61 - 130
1,1-Dichloroethene-d2	71		45 - 132
2-Butanone-d5	130		20 - 182
Chloroform-d	100		72 - 123
1,2-Dichloroethane-d4	94		79 - 122
Benzene-d6	106		80 - 121
1,2-Dichloropropane-d6	102		74 - 124
Toluene-d8	100		78 - 121
trans-1,3-Dichloropropene-d4	90		72 - 130
2-Hexanone-d5	142		17 - 184
1,4-Dioxane-d8	142		50 - 150
1,1,2,2-Tetrachloroethane-d2	116		56 - 161
1,2-Dichlorobenzene-d4	111		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10425-6

Date Sampled: 04/20/2012 1350

Client Matrix: Solid

% Moisture: 0.7

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb12.d
Dilution:	1.0			Initial Weight/Volume:	7.78 g
Analysis Date:	04/24/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		3.2	U	3.2
Chloromethane		3.2	U	3.2
Vinyl chloride		3.2	U	3.2
Bromomethane		3.2	U	3.2
Chloroethane		3.2	U	3.2
Trichlorofluoromethane		3.2	U	3.2
1,1-Dichloroethene		3.2	U	3.2
1,1,2-Trichloro-1,2,2-trifluoroethane		3.2	U	3.2
Acetone		6.5	U	6.5
Carbon disulfide		3.2	U	3.2
Methyl acetate		3.2	U	3.2
Methylene chloride		3.2	U	3.2
trans-1,2-Dichloroethene		3.2	U	3.2
Methyl tert-butyl ether		3.2	U	3.2
1,1-Dichloroethane		3.2	U	3.2
cis-1,2-Dichloroethene		3.2	U	3.2
2-Butanone		6.5	U	6.5
Bromochloromethane		3.2	U	3.2
Chloroform		3.2	U	3.2
1,1,1-Trichloroethane		3.2	U	3.2
Cyclohexane		3.2	U	3.2
Carbon tetrachloride		3.2	U	3.2
Benzene		3.2	U	3.2
1,2-Dichloroethane		3.2	U	3.2
1,4-Dioxane		65	U	65
Trichloroethene		3.2	U	3.2
Methylcyclohexane		3.2	U	3.2
1,2-Dichloropropane		3.2	U	3.2
Bromodichloromethane		3.2	U	3.2
cis-1,3-Dichloropropene		3.2	U	3.2
4-Methyl-2-pentanone		6.5	U	6.5
Toluene		0.071	J B	3.2
trans-1,3-Dichloropropene		3.2	U	3.2
1,1,2-Trichloroethane		3.2	U	3.2
Tetrachloroethene		3.2	U	3.2
2-Hexanone		6.5	U	6.5
Dibromochloromethane		3.2	U	3.2
1,2-Dibromoethane		3.2	U	3.2
Chlorobenzene		3.2	U	3.2
Ethylbenzene		3.2	U	3.2
o-Xylene		3.2	U	3.2
m,p-Xylene		3.2	U	3.2
Styrene		3.2	U	3.2
Bromoform		3.2	U	3.2
Isopropylbenzene		3.2	U	3.2
1,1,2,2-Tetrachloroethane		3.2	U	3.2

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10425-6

Date Sampled: 04/20/2012 1350

Client Matrix: Solid

% Moisture: 0.7

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37493	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwb12.d
Dilution:	1.0			Initial Weight/Volume:	7.78 g
Analysis Date:	04/24/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		3.2	U	3.2
1,4-Dichlorobenzene		3.2	U	3.2
1,2-Dichlorobenzene		3.2	U	3.2
1,2-Dibromo-3-chloropropane		3.2	U	3.2
1,2,4-Trichlorobenzene		3.2	U	3.2
1,2,3-Trichlorobenzene		3.2	U	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	92		68 - 122
Chloroethane-d5	100		61 - 130
1,1-Dichloroethene-d2	73		45 - 132
2-Butanone-d5	127		20 - 182
Chloroform-d	100		72 - 123
1,2-Dichloroethane-d4	95		79 - 122
Benzene-d6	106		80 - 121
1,2-Dichloropropane-d6	103		74 - 124
Toluene-d8	104		78 - 121
trans-1,3-Dichloropropene-d4	94		72 - 130
2-Hexanone-d5	146		17 - 184
1,4-Dioxane-d8	122		50 - 150
1,1,2,2-Tetrachloroethane-d2	118		56 - 161
1,2-Dichlorobenzene-d4	116		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: TB04172012

Lab Sample ID: 200-10425-7

Date Sampled: 04/20/2012 0000

Client Matrix: Water

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37842	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	N/A	Lab File ID:	nftb05.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2012 1210			Final Weight/Volume:	5 mL
Prep Date:	04/30/2012 1210				

Analyte	Result (ug/L)	Qualifier	RL
Dichlorodifluoromethane	5.0	U	5.0
Chloromethane	5.0	U	5.0
Vinyl chloride	5.0	U	5.0
Bromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0
Acetone	10	U	10
Carbon disulfide	0.66	J B	5.0
Methyl acetate	5.0	U	5.0
Methylene chloride	5.0	U	5.0
trans-1,2-Dichloroethene	0.38	J B	5.0
Methyl tert-butyl ether	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
cis-1,2-Dichloroethene	5.0	U	5.0
2-Butanone	10	U	10
Bromochloromethane	5.0	U	5.0
Chloroform	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Cyclohexane	5.0	U	5.0
Carbon tetrachloride	5.0	U	5.0
Benzene	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,4-Dioxane	100	U	100
Trichloroethene	0.30	J	5.0
Methylcyclohexane	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Bromodichloromethane	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
4-Methyl-2-pentanone	10	U	10
Toluene	0.069	J	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
Tetrachloroethene	0.14	J B	5.0
2-Hexanone	10	U	10
Dibromochloromethane	5.0	U	5.0
1,2-Dibromoethane	5.0	U	5.0
Chlorobenzene	0.15	J	5.0
Ethylbenzene	0.080	J	5.0
o-Xylene	5.0	U	5.0
m,p-Xylene	0.078	J	5.0
Styrene	0.089	J	5.0
Bromoform	5.0	U	5.0
Isopropylbenzene	5.0	U	5.0
1,1,2,2-Tetrachloroethane	5.0	U	5.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: TB04172012

Lab Sample ID: 200-10425-7

Date Sampled: 04/20/2012 0000

Client Matrix: Water

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method: SOM01.2/VOA	Analysis Batch: 200-37842	Instrument ID: N.i
Prep Method: SOM01.2/VOA_PR	Prep Batch: N/A	Lab File ID: nftb05.d
Dilution: 1.0		Initial Weight/Volume: 5 mL
Analysis Date: 04/30/2012 1210		Final Weight/Volume: 5 mL
Prep Date: 04/30/2012 1210		

Analyte	Result (ug/L)	Qualifier	RL
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,2-Dibromo-3-chloropropane	5.0	U	5.0
1,2,4-Trichlorobenzene	0.48	J B	5.0
1,2,3-Trichlorobenzene	0.48	J B	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	95		65 - 131
Chloroethane-d5	104		71 - 131
1,1-Dichloroethene-d2	74		55 - 104
2-Butanone-d5	99		49 - 155
Chloroform-d	96		78 - 121
1,2-Dichloroethane-d4	90		78 - 129
Benzene-d6	111		77 - 124
1,2-Dichloropropane-d6	100		79 - 124
Toluene-d8	104		77 - 121
trans-1,3-Dichloropropene-d4	101		73 - 121
2-Hexanone-d5	107		28 - 135
1,4-Dioxane-d8	115		50 - 150
1,1,2,2-Tetrachloroethane-d2	101		73 - 125
1,2-Dichlorobenzene-d4	103		80 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: VHBLKLS

Lab Sample ID: 200-10425-9STOBLK

Date Sampled: 04/21/2012 1250

Client Matrix: Solid

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37505	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwc07.d
Dilution:	1.0			Initial Weight/Volume:	5 g
Analysis Date:	04/25/2012 0924			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Dichlorodifluoromethane		5.0	U	5.0
Chloromethane		5.0	U	5.0
Vinyl chloride		5.0	U	5.0
Bromomethane		5.0	U	5.0
Chloroethane		5.0	U	5.0
Trichlorofluoromethane		5.0	U	5.0
1,1-Dichloroethene		5.0	U	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U	5.0
Acetone		2.7	J	10
Carbon disulfide		5.0	U	5.0
Methyl acetate		5.0	U	5.0
Methylene chloride		0.66	J B	5.0
trans-1,2-Dichloroethene		5.0	U	5.0
Methyl tert-butyl ether		5.0	U	5.0
1,1-Dichloroethane		5.0	U	5.0
cis-1,2-Dichloroethene		5.0	U	5.0
2-Butanone		10	U	10
Bromochloromethane		5.0	U	5.0
Chloroform		5.0	U	5.0
1,1,1-Trichloroethane		5.0	U	5.0
Cyclohexane		5.0	U	5.0
Carbon tetrachloride		5.0	U	5.0
Benzene		5.0	U	5.0
1,2-Dichloroethane		5.0	U	5.0
1,4-Dioxane		100	U	100
Trichloroethene		5.0	U	5.0
Methylcyclohexane		5.0	U	5.0
1,2-Dichloropropane		5.0	U	5.0
Bromodichloromethane		5.0	U	5.0
cis-1,3-Dichloropropene		5.0	U	5.0
4-Methyl-2-pentanone		10	U	10
Toluene		0.084	J B	5.0
trans-1,3-Dichloropropene		5.0	U	5.0
1,1,2-Trichloroethane		5.0	U	5.0
Tetrachloroethene		5.0	U	5.0
2-Hexanone		10	U	10
Dibromochloromethane		5.0	U	5.0
1,2-Dibromoethane		5.0	U	5.0
Chlorobenzene		5.0	U	5.0
Ethylbenzene		5.0	U	5.0
o-Xylene		5.0	U	5.0
m,p-Xylene		5.0	U	5.0
Styrene		5.0	U	5.0
Bromoform		5.0	U	5.0
Isopropylbenzene		5.0	U	5.0
1,1,2,2-Tetrachloroethane		5.0	U	5.0

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: VHBLKLS

Lab Sample ID: 200-10425-9STOBLK

Date Sampled: 04/21/2012 1250

Client Matrix: Solid

Date Received: 04/21/2012 0935

SOM01.2/VOA Low/Medium Volatiles

Analysis Method:	SOM01.2/VOA	Analysis Batch:	200-37505	Instrument ID:	N.i
Prep Method:	SOM01.2/VOA_PR	Prep Batch:	200-37334	Lab File ID:	nfwc07.d
Dilution:	1.0			Initial Weight/Volume:	5 g
Analysis Date:	04/25/2012 0924			Final Weight/Volume:	5 mL
Prep Date:	04/23/2012 1818				

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
1,3-Dichlorobenzene		5.0	U	5.0
1,4-Dichlorobenzene		5.0	U	5.0
1,2-Dichlorobenzene		5.0	U	5.0
1,2-Dibromo-3-chloropropane		5.0	U	5.0
1,2,4-Trichlorobenzene		0.26	J B	5.0
1,2,3-Trichlorobenzene		0.30	J B	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Vinyl chloride-d3	88		68 - 122
Chloroethane-d5	99		61 - 130
1,1-Dichloroethene-d2	74		45 - 132
2-Butanone-d5	60		20 - 182
Chloroform-d	94		72 - 123
1,2-Dichloroethane-d4	81		79 - 122
Benzene-d6	101		80 - 121
1,2-Dichloropropane-d6	89		74 - 124
Toluene-d8	101		78 - 121
trans-1,3-Dichloropropene-d4	86		72 - 130
2-Hexanone-d5	70		17 - 184
1,4-Dioxane-d8	62		50 - 150
1,1,1,2-Tetrachloroethane-d2	70		56 - 161
1,2-Dichlorobenzene-d4	97		70 - 131

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj06.d
Dilution:	1.0			Initial Weight/Volume:	29.74 g
Analysis Date:	05/03/2012 1114			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		13	J B	170
Phenol		170	U	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		170	U	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		330	U	330
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		330	U	330
Acenaphthene		170	U	170
2,4-Dinitrophenol		330	U	330
4-Nitrophenol		330	U	330
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		330	U	330
4,6-Dinitro-2-methylphenol		330	U	330
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj06.d
Dilution:	1.0			Initial Weight/Volume:	29.74 g
Analysis Date:	05/03/2012 1114			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		330	U	330
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		170	U	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		170	U	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	103		17 - 103
Bis(2-chloroethyl)ether-d8	80		12 - 98
2-Chlorophenol-d4	84		13 - 101
4-Methylphenol-d8	97		8 - 100
Nitrobenzene-d5	83		16 - 103
2-Nitrophenol-d4	84		16 - 104
2,4-Dichlorophenol-d3	81		23 - 104
4-Chloroaniline-d4	26		1 - 145
Dimethylphthalate-d6	95		43 - 111
Acenaphthylene-d8	91		20 - 97
4-Nitrophenol-d4	45		16 - 166
Fluorene-d10	79		40 - 108
4,6-Dinitro-2-methylphenol-d2	53		1 - 121
Anthracene-d10	87		22 - 98
Pyrene-d10	85		51 - 120
Benzo(a)pyrene-d12	79		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj08.d
Dilution:	1.0			Initial Weight/Volume:	30.72 g
Analysis Date:	05/03/2012 1238			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		170	U	170
Phenol		16	J	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		26	J	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		320	U	320
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		320	U	320
Acenaphthene		170	U	170
2,4-Dinitrophenol		320	U	320
4-Nitrophenol		320	U	320
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		320	U	320
4,6-Dinitro-2-methylphenol		320	U	320
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj08.d
Dilution:	1.0			Initial Weight/Volume:	30.72 g
Analysis Date:	05/03/2012 1238			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		320	U	320
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		170	U	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		170	U	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	98		17 - 103
Bis(2-chloroethyl)ether-d8	76		12 - 98
2-Chlorophenol-d4	82		13 - 101
4-Methylphenol-d8	90		8 - 100
Nitrobenzene-d5	76		16 - 103
2-Nitrophenol-d4	78		16 - 104
2,4-Dichlorophenol-d3	75		23 - 104
4-Chloroaniline-d4	32		1 - 145
Dimethylphthalate-d6	92		43 - 111
Acenaphthylene-d8	88		20 - 97
4-Nitrophenol-d4	39		16 - 166
Fluorene-d10	78		40 - 108
4,6-Dinitro-2-methylphenol-d2	46		1 - 121
Anthracene-d10	84		22 - 98
Pyrene-d10	81		51 - 120
Benzo(a)pyrene-d12	78		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgm05.d
Dilution:	1.0			Initial Weight/Volume:	30.10 g
Analysis Date:	05/04/2012 0613			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		16	J B	170
Phenol		22	J	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		35	J	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		330	U	330
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		330	U	330
Acenaphthene		170	U	170
2,4-Dinitrophenol		330	U	330
4-Nitrophenol		330	U	330
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		330	U	330
4,6-Dinitro-2-methylphenol		330	U	330
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgm05.d
Dilution:	1.0			Initial Weight/Volume:	30.10 g
Analysis Date:	05/04/2012 0613			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		330	U	330
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		8.4	J	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		23	J	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	91		17 - 103
Bis(2-chloroethyl)ether-d8	74		12 - 98
2-Chlorophenol-d4	79		13 - 101
4-Methylphenol-d8	88		8 - 100
Nitrobenzene-d5	76		16 - 103
2-Nitrophenol-d4	78		16 - 104
2,4-Dichlorophenol-d3	70		23 - 104
4-Chloroaniline-d4	21		1 - 145
Dimethylphthalate-d6	84		43 - 111
Acenaphthylene-d8	81		20 - 97
4-Nitrophenol-d4	33		16 - 166
Fluorene-d10	75		40 - 108
4,6-Dinitro-2-methylphenol-d2	44		1 - 121
Anthracene-d10	79		22 - 98
Pyrene-d10	87		51 - 120
Benzo(a)pyrene-d12	71		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	picgm06.d
Dilution:	1.0			Initial Weight/Volume:	30.78 g
Analysis Date:	05/04/2012 0655			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		170	U	170
Phenol		15	J	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		29	J	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		320	U	320
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		320	U	320
Acenaphthene		170	U	170
2,4-Dinitrophenol		320	U	320
4-Nitrophenol		320	U	320
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		320	U	320
4,6-Dinitro-2-methylphenol		320	U	320
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgm06.d
Dilution:	1.0			Initial Weight/Volume:	30.78 g
Analysis Date:	05/04/2012 0655			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		320	U	320
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		7.9	J	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		27	J	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	91		17 - 103
Bis(2-chloroethyl)ether-d8	77		12 - 98
2-Chlorophenol-d4	80		13 - 101
4-Methylphenol-d8	86		8 - 100
Nitrobenzene-d5	80		16 - 103
2-Nitrophenol-d4	78		16 - 104
2,4-Dichlorophenol-d3	71		23 - 104
4-Chloroaniline-d4	19		1 - 145
Dimethylphthalate-d6	89		43 - 111
Acenaphthylene-d8	84		20 - 97
4-Nitrophenol-d4	29		16 - 166
Fluorene-d10	75		40 - 108
4,6-Dinitro-2-methylphenol-d2	39		1 - 121
Anthracene-d10	86		22 - 98
Pyrene-d10	82		51 - 120
Benzo(a)pyrene-d12	73		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj13.d
Dilution:	1.0			Initial Weight/Volume:	29.73 g
Analysis Date:	05/03/2012 1607			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		170	U	170
Phenol		170	U	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		23	J	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		330	U	330
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		330	U	330
Acenaphthene		170	U	170
2,4-Dinitrophenol		330	U	330
4-Nitrophenol		330	U	330
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		330	U	330
4,6-Dinitro-2-methylphenol		330	U	330
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38069	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgj13.d
Dilution:	1.0			Initial Weight/Volume:	29.73 g
Analysis Date:	05/03/2012 1607			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		330	U	330
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		170	U	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		170	U	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	88		17 - 103
Bis(2-chloroethyl)ether-d8	72		12 - 98
2-Chlorophenol-d4	76		13 - 101
4-Methylphenol-d8	82		8 - 100
Nitrobenzene-d5	73		16 - 103
2-Nitrophenol-d4	72		16 - 104
2,4-Dichlorophenol-d3	68		23 - 104
4-Chloroaniline-d4	34		1 - 145
Dimethylphthalate-d6	77		43 - 111
Acenaphthylene-d8	76		20 - 97
4-Nitrophenol-d4	30		16 - 166
Fluorene-d10	67		40 - 108
4,6-Dinitro-2-methylphenol-d2	40		1 - 121
Anthracene-d10	77		22 - 98
Pyrene-d10	73		51 - 120
Benzo(a)pyrene-d12	68		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	picgm07.d
Dilution:	1.0			Initial Weight/Volume:	29.85 g
Analysis Date:	05/04/2012 0736			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Pyridine		170	U	170
Benzaldehyde		12	J B	170
Phenol		14	J	170
Bis(2-chloroethyl)ether		170	U	170
2-Chlorophenol		170	U	170
2-Methylphenol		170	U	170
2,2'-Oxybis(1-chloropropane)		170	U	170
Acetophenone		28	J	170
4-Methylphenol		170	U	170
N-Nitroso-di-n-propylamine		170	U	170
Hexachloroethane		170	U	170
Nitrobenzene		170	U	170
Isophorone		170	U	170
2-Nitrophenol		170	U	170
2,4-Dimethylphenol		170	U	170
Bis(2-chloroethoxy)methane		170	U	170
2,4-Dichlorophenol		170	U	170
Naphthalene		170	U	170
4-Chloroaniline		170	U	170
Hexachlorobutadiene		170	U	170
Caprolactam		170	U	170
4-Chloro-3-methylphenol		170	U	170
2-Methylnaphthalene		170	U	170
Hexachlorocyclopentadiene		170	U	170
2,4,6-Trichlorophenol		170	U	170
2,4,5-Trichlorophenol		170	U	170
1,1'-Biphenyl		170	U	170
2-Chloronaphthalene		170	U	170
2-Nitroaniline		330	U	330
Dimethylphthalate		170	U	170
2,6-Dinitrotoluene		170	U	170
Acenaphthylene		170	U	170
3-Nitroaniline		330	U	330
Acenaphthene		170	U	170
2,4-Dinitrophenol		330	U	330
4-Nitrophenol		330	U	330
Dibenzofuran		170	U	170
2,4-Dinitrotoluene		170	U	170
Diethylphthalate		170	U	170
Fluorene		170	U	170
4-Chlorophenyl-phenylether		170	U	170
4-Nitroaniline		330	U	330
4,6-Dinitro-2-methylphenol		330	U	330
N-Nitrosodiphenylamine		170	U	170
1,2,4,5-Tetrachlorobenzene		170	U	170
4-Bromophenyl-phenylether		170	U	170

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/SV Semivolatiles

Analysis Method:	SOM01.2/SV	Analysis Batch:	200-38070	Instrument ID:	P.i
Prep Method:	SONC	Prep Batch:	200-37690	Lab File ID:	pjcgm07.d
Dilution:	1.0			Initial Weight/Volume:	29.85 g
Analysis Date:	05/04/2012 0736			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 1153			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Hexachlorobenzene		170	U	170
Atrazine		170	U	170
Pentachlorophenol		330	U	330
Phenanthrene		170	U	170
Anthracene		170	U	170
Carbazole		170	U	170
Di-n-butylphthalate		170	U	170
Fluoranthene		170	U	170
Pyrene		170	U	170
Butylbenzylphthalate		5.5	J	170
3,3'-Dichlorobenzidine		170	U	170
Benzo(a)anthracene		170	U	170
Chrysene		170	U	170
Bis(2-ethylhexyl)phthalate		170	U	170
Di-n-octylphthalate		170	U	170
Benzo(b)fluoranthene		170	U	170
Benzo(k)fluoranthene		170	U	170
Benzo(a)pyrene		170	U	170
Indeno(1,2,3-cd)pyrene		170	U	170
Dibenzo(a,h)anthracene		170	U	170
Benzo(g,h,i)perylene		170	U	170
2,3,4,6-Tetrachlorophenol		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d5	84		17 - 103
Bis(2-chloroethyl)ether-d8	70		12 - 98
2-Chlorophenol-d4	72		13 - 101
4-Methylphenol-d8	80		8 - 100
Nitrobenzene-d5	71		16 - 103
2-Nitrophenol-d4	70		16 - 104
2,4-Dichlorophenol-d3	62		23 - 104
4-Chloroaniline-d4	33		1 - 145
Dimethylphthalate-d6	80		43 - 111
Acenaphthylene-d8	77		20 - 97
4-Nitrophenol-d4	24		16 - 166
Fluorene-d10	69		40 - 108
4,6-Dinitro-2-methylphenol-d2	28		1 - 121
Anthracene-d10	78		22 - 98
Pyrene-d10	78		51 - 120
Benzo(a)pyrene-d12	66		43 - 111

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1
Client Matrix: Solid

% Moisture: 0.5

Date Sampled: 04/17/2012 1300
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	29.70 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1043			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		34	U	34
Aroclor-1221		34	U	34
Aroclor-1232		34	U	34
Aroclor-1242		34	U	34
Aroclor-1248		34	U	34
Aroclor-1254		34	U	34
Aroclor-1260		34	U	34
Aroclor-1262		34	U	34
Aroclor-1268		34	U	34

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		30 - 150
Decachlorobiphenyl	94		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1
Client Matrix: Solid

% Moisture: 0.5

Date Sampled: 04/17/2012 1300
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	29.70 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1043			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		30 - 150
Decachlorobiphenyl	94		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	30.16 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1107			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		33	U	33
Aroclor-1221		33	U	33
Aroclor-1232		33	U	33
Aroclor-1242		33	U	33
Aroclor-1248		33	U	33
Aroclor-1254		33	U	33
Aroclor-1260		33	U	33
Aroclor-1262		33	U	33
Aroclor-1268		33	U	33

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	81		30 - 150
Decachlorobiphenyl	97		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method: SOM01.2/PCB

Analysis Batch: 200-37986

Instrument ID: 5253.i

Prep Method: SONC

Prep Batch: 200-37661

Initial Weight/Volume: 30.16 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1107

Injection Volume: 1 uL

Prep Date: 04/27/2012 0836

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	85		30 - 150
Decachlorobiphenyl	98		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method: SOM01.2/PCB Analysis Batch: 200-37986 Instrument ID: 5253.i
Prep Method: SONC Prep Batch: 200-37661 Initial Weight/Volume: 29.81 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1219 Injection Volume: 1 uL
Prep Date: 04/27/2012 0836 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		34	U	34
Aroclor-1221		34	U	34
Aroclor-1232		34	U	34
Aroclor-1242		34	U	34
Aroclor-1248		34	U	34
Aroclor-1254		34	U	34
Aroclor-1260		34	U	34
Aroclor-1262		34	U	34
Aroclor-1268		34	U	34

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		30 - 150
Decachlorobiphenyl	98		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	29.81 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1219			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		30 - 150
Decachlorobiphenyl	102		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	29.78 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1243			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		34	U	34
Aroclor-1221		34	U	34
Aroclor-1232		34	U	34
Aroclor-1242		34	U	34
Aroclor-1248		34	U	34
Aroclor-1254		34	U	34
Aroclor-1260		34	U	34
Aroclor-1262		34	U	34
Aroclor-1268		34	U	34

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		30 - 150
Decachlorobiphenyl	98		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method: SOM01.2/PCB

Analysis Batch: 200-37986

Instrument ID: 5253.i

Prep Method: SONC

Prep Batch: 200-37661

Initial Weight/Volume: 29.78 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1243

Injection Volume: 1 uL

Prep Date: 04/27/2012 0836

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	83		30 - 150
Decachlorobiphenyl	99		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method: SOM01.2/PCB Analysis Batch: 200-37986 Instrument ID: 5253.i
Prep Method: SONC Prep Batch: 200-37661 Initial Weight/Volume: 30.03 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1306 Injection Volume: 1 uL
Prep Date: 04/27/2012 0836 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		33	U	33
Aroclor-1221		33	U	33
Aroclor-1232		33	U	33
Aroclor-1242		33	U	33
Aroclor-1248		33	U	33
Aroclor-1254		33	U	33
Aroclor-1260		33	U	33
Aroclor-1262		33	U	33
Aroclor-1268		33	U	33

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		30 - 150
Decachlorobiphenyl	100		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	30.03 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1306			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		30 - 150
Decachlorobiphenyl	101		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method: SOM01.2/PCB Analysis Batch: 200-37986 Instrument ID: 5253.i
Prep Method: SONC Prep Batch: 200-37661 Initial Weight/Volume: 29.86 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1330 Injection Volume: 1 uL
Prep Date: 04/27/2012 0836 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Aroclor-1016		33	U	33
Aroclor-1221		33	U	33
Aroclor-1232		33	U	33
Aroclor-1242		33	U	33
Aroclor-1248		33	U	33
Aroclor-1254		33	U	33
Aroclor-1260		33	U	33
Aroclor-1262		33	U	33
Aroclor-1268		33	U	33

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	79		30 - 150
Decachlorobiphenyl	98		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

SOM01.2/PCB Aroclors

Analysis Method:	SOM01.2/PCB	Analysis Batch:	200-37986	Instrument ID:	5253.i
Prep Method:	SONC	Prep Batch:	200-37661	Initial Weight/Volume:	29.86 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1330			Injection Volume:	1 uL
Prep Date:	04/27/2012 0836			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	80		30 - 150
Decachlorobiphenyl	99		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-38013	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.00 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1249			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		1.7	U	1.7
beta-BHC		0.070	J P B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		1.7	U	1.7
Heptachlor		0.038	J P	1.7
Aldrin		0.023	J P	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		3.3	U	3.3
4,4'-DDE		3.3	U	3.3
Endrin		3.3	U	3.3
Endosulfan II		3.3	U	3.3
4,4'-DDD		3.3	U	3.3
Endosulfan sulfate		3.3	U	3.3
4,4'-DDT		3.3	U	3.3
Methoxychlor		17	U	17
Endrin ketone		3.3	U	3.3
Endrin aldehyde		3.3	U	3.3
alpha-Chlordane		0.11	J P	1.7
gamma-Chlordane		0.070	J P B	1.7
Toxaphene		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		30 - 150
Decachlorobiphenyl	87		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-38013

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.00 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1249

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		30 - 150
Decachlorobiphenyl	92		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1
Client Matrix: Solid

% Moisture: 0.5

Date Sampled: 04/17/2012 1300
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.00 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1839 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		0.055	J P	3.3
2,4'-DDT		3.3	U	3.3
2,4'-DDD		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		30 - 150
Decachlorobiphenyl	84		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-37999

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.00 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1839

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	92		30 - 150
Decachlorobiphenyl	85		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-38013	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.92 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1312			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		0.012	J P B	1.7
beta-BHC		0.058	J P B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		1.7	U	1.7
Heptachlor		0.010	J P	1.7
Aldrin		1.7	U	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		3.2	U	3.2
4,4'-DDE		3.2	U	3.2
Endrin		3.2	U	3.2
Endosulfan II		3.2	U	3.2
4,4'-DDD		3.2	U	3.2
Endosulfan sulfate		3.2	U	3.2
4,4'-DDT		3.2	U	3.2
Methoxychlor		17	U	17
Endrin ketone		3.2	U	3.2
Endrin aldehyde		3.2	U	3.2
alpha-Chlordane		0.11	J P	1.7
gamma-Chlordane		0.036	J P B	1.7
Toxaphene		170	U	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	81		30 - 150
Decachlorobiphenyl	84		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-38013

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.92 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1312

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	81		30 - 150
Decachlorobiphenyl	86		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2
Client Matrix: Solid

% Moisture: 0.3

Date Sampled: 04/17/2012 1310
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.92 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1909 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		0.059	J P	3.2
2,4'-DDT		3.2	U	3.2
2,4'-DDD		3.2	U	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	83		30 - 150
Decachlorobiphenyl	80		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2
Client Matrix: Solid

% Moisture: 0.3

Date Sampled: 04/17/2012 1310
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-37999	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.92 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1909			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		30 - 150
Decachlorobiphenyl	83		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest	Analysis Batch: 200-38013	Instrument ID: 0911.i
Prep Method: SONC	Prep Batch: 200-37647	Initial Weight/Volume: 30.24 g
Dilution: 1.0		Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1421		Injection Volume: 1 uL
Prep Date: 04/26/2012 2353		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		0.023	J P B	1.7
beta-BHC		0.16	J P B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		0.020	J P	1.7
Heptachlor		0.049	J	1.7
Aldrin		1.7	U	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		3.3	U	3.3
4,4'-DDE		3.3	U	3.3
Endrin		3.3	U	3.3
Endosulfan II		3.3	U	3.3
4,4'-DDD		3.3	U	3.3
Endosulfan sulfate		0.091	J	3.3
4,4'-DDT		3.3	U	3.3
Methoxychlor		0.10	J P B	17
Endrin ketone		3.3	U	3.3
Endrin aldehyde		3.3	U	3.3
alpha-Chlordane		0.042	J P	1.7
gamma-Chlordane		0.032	J P B	1.7
Toxaphene		170	U	170
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Surrogate		%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene		92		30 - 150
Decachlorobiphenyl		99		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-38013

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.24 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1421

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	95		30 - 150
Decachlorobiphenyl	103		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.24 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1939 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		3.3	U	3.3
2,4'-DDT		3.3	U	3.3
2,4'-DDD		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		30 - 150
Decachlorobiphenyl	93		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-37999

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.24 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1939

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	100		30 - 150
Decachlorobiphenyl	94		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest	Analysis Batch: 200-38013	Instrument ID: 0911.i
Prep Method: SONC	Prep Batch: 200-37647	Initial Weight/Volume: 30.17 g
Dilution: 1.0		Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1444		Injection Volume: 1 uL
Prep Date: 04/26/2012 2353		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		0.030	J P B	1.7
beta-BHC		0.12	J P B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		1.7	U	1.7
Heptachlor		0.048	J	1.7
Aldrin		1.7	U	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		0.11	J	3.3
4,4'-DDE		3.3	U	3.3
Endrin		3.3	U	3.3
Endosulfan II		3.3	U	3.3
4,4'-DDD		3.3	U	3.3
Endosulfan sulfate		0.074	J P	3.3
4,4'-DDT		3.3	U	3.3
Methoxychlor		0.088	J P B	17
Endrin ketone		3.3	U	3.3
Endrin aldehyde		3.3	U	3.3
alpha-Chlordane		1.7	U	1.7
gamma-Chlordane		1.7	U	1.7
Toxaphene		170	U	170
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Surrogate		%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene		96		30 - 150
Decachlorobiphenyl		100		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4
Client Matrix: Solid

% Moisture: 1.0

Date Sampled: 04/17/2012 1330
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-38013	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.17 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1444			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	99		30 - 150
Decachlorobiphenyl	106		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4
Client Matrix: Solid

% Moisture: 1.0

Date Sampled: 04/17/2012 1330
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.17 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 2009 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		3.3	U	3.3
2,4'-DDT		3.3	U	3.3
2,4'-DDD		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	98		30 - 150
Decachlorobiphenyl	96		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-37999

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.17 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 2009

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	107		30 - 150
Decachlorobiphenyl	96		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-38013	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.00 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1507			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		0.036	J P B	1.7
beta-BHC		0.16	J P B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		1.7	U	1.7
Heptachlor		0.033	J P	1.7
Aldrin		1.7	U	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		3.3	U	3.3
4,4'-DDE		3.3	U	3.3
Endrin		3.3	U	3.3
Endosulfan II		3.3	U	3.3
4,4'-DDD		3.3	U	3.3
Endosulfan sulfate		0.042	J P	3.3
4,4'-DDT		3.3	U	3.3
Methoxychlor		0.069	J P B	17
Endrin ketone		3.3	U	3.3
Endrin aldehyde		3.3	U	3.3
alpha-Chlordane		0.13	J P	1.7
gamma-Chlordane		0.035	J P B	1.7
Toxaphene		170	U	170
Surrogate		%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene		89		30 - 150
Decachlorobiphenyl		96		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method:	SOM01.2/Pest	Analysis Batch:	200-38013	Instrument ID:	0911.i
Prep Method:	SONC	Prep Batch:	200-37647	Initial Weight/Volume:	30.00 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2012 1507			Injection Volume:	1 uL
Prep Date:	04/26/2012 2353			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		30 - 150
Decachlorobiphenyl	97		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.00 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 2039 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		3.3	U	3.3
2,4'-DDT		3.3	U	3.3
2,4'-DDD		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		30 - 150
Decachlorobiphenyl	86		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-37999

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.00 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 2039

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	94		30 - 150
Decachlorobiphenyl	88		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest	Analysis Batch: 200-38013	Instrument ID: 0911.i
Prep Method: SONC	Prep Batch: 200-37647	Initial Weight/Volume: 30.65 g
Dilution: 1.0		Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 1530		Injection Volume: 1 uL
Prep Date: 04/26/2012 2353		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
alpha-BHC		0.027	J P B	1.7
beta-BHC		0.055	J B	1.7
delta-BHC		1.7	U	1.7
gamma-BHC (Lindane)		1.7	U	1.7
Heptachlor		0.029	J P	1.7
Aldrin		1.7	U	1.7
Heptachlor epoxide		1.7	U	1.7
Endosulfan I		1.7	U	1.7
Dieldrin		3.2	U	3.2
4,4'-DDE		3.2	U	3.2
Endrin		3.2	U	3.2
Endosulfan II		3.2	U	3.2
4,4'-DDD		3.2	U	3.2
Endosulfan sulfate		3.2	U	3.2
4,4'-DDT		3.2	U	3.2
Methoxychlor		0.068	J P B	17
Endrin ketone		3.2	U	3.2
Endrin aldehyde		3.2	U	3.2
alpha-Chlordane		1.7	U	1.7
gamma-Chlordane		1.7	U	1.7
Toxaphene		170	U	170
<hr/>				
Surrogate		%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene		83		30 - 150
Decachlorobiphenyl		85		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-38013

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.65 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 1530

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		30 - 150
Decachlorobiphenyl	86		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest Analysis Batch: 200-37999 Instrument ID: 0911.i
Prep Method: SONC Prep Batch: 200-37647 Initial Weight/Volume: 30.65 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 05/02/2012 2109 Injection Volume: 1 uL
Prep Date: 04/26/2012 2353 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
2,4'-DDE		0.056	J P	3.2
2,4'-DDT		3.2	U	3.2
2,4'-DDD		3.2	U	3.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		30 - 150
Decachlorobiphenyl	80		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/Pest Pesticides

Analysis Method: SOM01.2/Pest

Analysis Batch: 200-37999

Instrument ID: 0911.i

Prep Method: SONC

Prep Batch: 200-37647

Initial Weight/Volume: 30.65 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 05/02/2012 2109

Injection Volume: 1 uL

Prep Date: 04/26/2012 2353

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	93		30 - 150
Decachlorobiphenyl	80		30 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1
Client Matrix: Solid

% Moisture: 0.5

Date Sampled: 04/17/2012 1300
Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	04/24/2012 1124			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.095	U	0.010	0.095

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.38 g
Analysis Date:	04/26/2012 1207			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		338	*	2.1	14.6
Antimony		4.4	U	0.28	4.4
Arsenic		3.7		0.31	0.73
Barium		4.0	J	0.28	14.6
Beryllium		0.15	J	0.025	0.36
Cadmium		0.090	J	0.025	0.36
Chromium		2.6		0.032	0.73
Cobalt		1.7	J	0.095	3.6
Copper		3.5		0.12	1.8
Iron		4840	E	1.9	7.3
Lead		6.1		0.24	0.73
Nickel		3.6		0.14	2.9
Potassium		276	J	5.9	364
Selenium		0.25	J	0.20	2.5
Silver		0.73	U	0.057	0.73
Sodium		122	J	2.1	364
Thallium		1.8	U	0.10	1.8
Vanadium		5.2		0.095	3.6
Zinc		4.4	U	0.095	4.4

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.38 g
Analysis Date:	04/26/2012 1346			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		187000		101	7280
Magnesium		107000		189	7280
Manganese		169	N	0.63	21.8

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	04/24/2012 1126			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.093	U	0.010	0.093

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.32 g
Analysis Date:	04/26/2012 1214			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		461	*	2.2	15.2
Antimony		4.6	U	0.30	4.6
Arsenic		3.7		0.32	0.76
Barium		2.6	J	0.29	15.2
Beryllium		0.13	J	0.027	0.38
Cadmium		0.10	J	0.027	0.38
Chromium		2.7		0.033	0.76
Cobalt		2.2	J	0.099	3.8
Copper		4.0		0.12	1.9
Iron		5330	E	2.0	7.6
Lead		5.4		0.25	0.76
Nickel		3.8		0.14	3.0
Potassium		331	J	6.2	380
Selenium		2.7	U	0.21	2.7
Silver		0.76	U	0.059	0.76
Sodium		129	J	2.2	380
Thallium		1.9	U	0.11	1.9
Vanadium		5.1		0.099	3.8
Zinc		0.52	J	0.099	4.6

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.32 g
Analysis Date:	04/26/2012 1352			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		190000		105	7600
Magnesium		109000		198	7600
Manganese		191	N	0.65	22.8

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Analysis Date:	04/24/2012 1135			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.011	J	0.010	0.092

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.35 g
Analysis Date:	04/26/2012 1253			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		395	*	2.2	15.1
Antimony		4.5	U	0.29	4.5
Arsenic		2.8		0.32	0.75
Barium		2.8	J	0.29	15.1
Beryllium		0.11	J	0.026	0.38
Cadmium		0.080	J	0.026	0.38
Chromium		2.6		0.033	0.75
Cobalt		1.2	J	0.098	3.8
Copper		3.2		0.12	1.9
Iron		3850	E	2.0	7.5
Lead		5.0		0.25	0.75
Nickel		2.6	J	0.14	3.0
Potassium		264	J	6.1	377
Selenium		0.22	J	0.20	2.6
Silver		0.75	U	0.059	0.75
Sodium		128	J	2.2	377
Thallium		1.9	U	0.11	1.9
Vanadium		4.9		0.098	3.8
Zinc		4.5	U	0.098	4.5

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.35 g
Analysis Date:	04/26/2012 1418			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		195000		104	7540
Magnesium		112000		196	7540
Manganese		181	N	0.65	22.6

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4
Client Matrix: Solid

% Moisture: 1.0

Date Sampled: 04/17/2012 1330
Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	04/24/2012 1137			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.095	U	0.010	0.095

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.42 g
Analysis Date:	04/26/2012 1313			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		281	*	2.1	14.2
Antimony		4.3	U	0.28	4.3
Arsenic		3.6		0.30	0.71
Barium		2.1	J	0.27	14.2
Beryllium		0.091	J	0.025	0.36
Cadmium		0.079	J	0.025	0.36
Chromium		2.5		0.031	0.71
Cobalt		1.2	J	0.092	3.6
Copper		2.5		0.11	1.8
Iron		3830	E	1.8	7.1
Lead		4.4		0.23	0.71
Nickel		2.4	J	0.14	2.8
Potassium		218	J	5.8	356
Selenium		0.32	J	0.19	2.5
Silver		0.71	U	0.055	0.71
Sodium		134	J	2.1	356
Thallium		1.8	U	0.10	1.8
Vanadium		4.5		0.092	3.6
Zinc		4.3	U	0.092	4.3

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.42 g
Analysis Date:	04/26/2012 1424			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		191000		98.2	7110
Magnesium		110000		185	7110
Manganese		165	N	0.61	21.3

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	04/24/2012 1139			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.093	U	0.010	0.093

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.47 g
Analysis Date:	04/26/2012 1320			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		430	*	2.0	13.7
Antimony		4.1	U	0.27	4.1
Arsenic		3.7		0.29	0.68
Barium		2.6	J	0.26	13.7
Beryllium		0.13	J	0.024	0.34
Cadmium		0.082	J	0.024	0.34
Chromium		2.8		0.030	0.68
Cobalt		1.6	J	0.089	3.4
Copper		3.3		0.11	1.7
Iron		4570	E	1.8	6.8
Lead		5.0		0.23	0.68
Nickel		3.2		0.13	2.7
Potassium		318	J	5.5	342
Selenium		2.4	U	0.18	2.4
Silver		0.68	U	0.053	0.68
Sodium		130	J	2.0	342
Thallium		1.7	U	0.096	1.7
Vanadium		5.1		0.089	3.4
Zinc		4.1	U	0.089	4.1

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.47 g
Analysis Date:	04/26/2012 1431			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		191000		94.3	6830
Magnesium		110000		178	6830
Manganese		169	N	0.59	20.5

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

ISM01.2/HG ISM01.2 Mercury

Analysis Method:	ISM01.2/HG	Analysis Batch:	200-37399	Instrument ID:	MEPCV3 II
Prep Method:	7471B	Prep Batch:	200-37318	Lab File ID:	042412CC.PRN
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Analysis Date:	04/24/2012 1142			Final Weight/Volume:	100 mL
Prep Date:	04/23/2012 1520				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDLE	RL
Mercury		0.099	U	0.011	0.099

ISM01.2/ICP ISM01.2 Metals (ICP)

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	1.0			Initial Weight/Volume:	1.47 g
Analysis Date:	04/26/2012 1326			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		472	*	2.0	13.7
Antimony		4.1	U	0.27	4.1
Arsenic		3.0		0.29	0.68
Barium		3.0	J	0.26	13.7
Beryllium		0.098	J	0.024	0.34
Cadmium		0.067	J	0.024	0.34
Chromium		2.5		0.030	0.68
Cobalt		1.1	J	0.089	3.4
Copper		2.5		0.11	1.7
Iron		3690	E	1.8	6.8
Lead		3.9		0.23	0.68
Nickel		2.3	J	0.13	2.7
Potassium		212	J	5.5	342
Selenium		2.4	U	0.18	2.4
Silver		0.68	U	0.053	0.68
Sodium		133	J	2.0	342
Thallium		1.7	U	0.096	1.7
Vanadium		4.9		0.089	3.4
Zinc		4.1	U	0.089	4.1

Analysis Method:	ISM01.2/ICP	Analysis Batch:	200-37625	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20			Initial Weight/Volume:	1.47 g
Analysis Date:	04/26/2012 1437			Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Calcium		198000		94.4	6840
Magnesium		113000		178	6840
Manganese		176	N	0.59	20.5

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	B	The analyte was found in an associated blank, as well as in the sample.
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	B	The analyte was found in an associated blank, as well as in the sample.
GC Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	P	The % Difference between columns is greater than 25%.
	B	The analyte was found in an associated blank, as well as in the sample.
Metals		
	*	Duplicate analysis not within control limits.
	U	Indicates analyzed for but not detected.
	J	Sample result is greater than the MDL but below the CRDL
	N	Spiked sample recovery is not within control limits.
	E	The reported value is estimated because of the presence of interference based on serial dilution analysis.

QUALITY CONTROL RESULTS

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Prep Batch: 200-37334					
200-10425-1	PRR1SOLBF-01	T	Solid	SOM01.2/VOA_P	
200-10425-2	PRR1SOLBF-02	T	Solid	SOM01.2/VOA_P	
200-10425-2MS	Matrix Spike	T	Solid	SOM01.2/VOA_P	
200-10425-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/VOA_P	
200-10425-3	PRR1SOLBF-03	T	Solid	SOM01.2/VOA_P	
200-10425-4	PRR1SOLBF-04	T	Solid	SOM01.2/VOA_P	
200-10425-5	PRR1SOLBF-05	T	Solid	SOM01.2/VOA_P	
200-10425-6	PRR1SOLBF-06	T	Solid	SOM01.2/VOA_P	
200-10425-9STOBLK	VHBLKLS	T	Solid	SOM01.2/VOA_P	
Analysis Batch:200-37493					
MB 200-37493/3	Method Blank	T	Solid	SOM01.2/VOA	
200-10425-1	PRR1SOLBF-01	T	Solid	SOM01.2/VOA	200-37334
200-10425-2	PRR1SOLBF-02	T	Solid	SOM01.2/VOA	200-37334
200-10425-2MS	Matrix Spike	T	Solid	SOM01.2/VOA	200-37334
200-10425-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/VOA	200-37334
200-10425-3	PRR1SOLBF-03	T	Solid	SOM01.2/VOA	200-37334
200-10425-4	PRR1SOLBF-04	T	Solid	SOM01.2/VOA	200-37334
200-10425-5	PRR1SOLBF-05	T	Solid	SOM01.2/VOA	200-37334
200-10425-6	PRR1SOLBF-06	T	Solid	SOM01.2/VOA	200-37334
Analysis Batch:200-37505					
MB 200-37505/6	Method Blank	T	Solid	SOM01.2/VOA	
200-10425-9STOBLK	VHBLKLS	T	Solid	SOM01.2/VOA	200-37334
Analysis Batch:200-37842					
MB 200-37842/4	Method Blank	T	Water	SOM01.2/VOA	
200-10425-7	TB04172012	T	Water	SOM01.2/VOA	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 200-37690					
MB 200-37690/1-B	Method Blank	T	Solid	SONC	
200-10396-1	PRR1SOLBF-01	T	Solid	SONC	
200-10396-2	PRR1SOLBF-02	T	Solid	SONC	
200-10396-2MS	Matrix Spike	T	Solid	SONC	
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SONC	
200-10396-3	PRR1SOLBF-03	T	Solid	SONC	
200-10396-4	PRR1SOLBF-04	T	Solid	SONC	
200-10396-5	PRR1SOLBF-05	T	Solid	SONC	
200-10396-6	PRR1SOLBF-06	T	Solid	SONC	
Analysis Batch:200-38069					
MB 200-37690/1-B	Method Blank	T	Solid	SOM01.2/SV	200-37690
200-10396-1	PRR1SOLBF-01	T	Solid	SOM01.2/SV	200-37690
200-10396-2	PRR1SOLBF-02	T	Solid	SOM01.2/SV	200-37690
200-10396-5	PRR1SOLBF-05	T	Solid	SOM01.2/SV	200-37690
Analysis Batch:200-38070					
200-10396-2MS	Matrix Spike	T	Solid	SOM01.2/SV	200-37690
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/SV	200-37690
200-10396-3	PRR1SOLBF-03	T	Solid	SOM01.2/SV	200-37690
200-10396-4	PRR1SOLBF-04	T	Solid	SOM01.2/SV	200-37690
200-10396-6	PRR1SOLBF-06	T	Solid	SOM01.2/SV	200-37690

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Prep Batch: 200-37647					
LCS 200-37647/2-D	Lab Control Sample	T	Solid	SONC	
LCS 200-37647/3-D	Lab Control Sample	T	Solid	SONC	
MB 200-37647/1-D	Method Blank	T	Solid	SONC	
200-10396-1	PRR1SOLBF-01	T	Solid	SONC	
200-10396-2	PRR1SOLBF-02	T	Solid	SONC	
200-10396-2MS	Matrix Spike	T	Solid	SONC	
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SONC	
200-10396-3	PRR1SOLBF-03	T	Solid	SONC	
200-10396-4	PRR1SOLBF-04	T	Solid	SONC	
200-10396-5	PRR1SOLBF-05	T	Solid	SONC	
200-10396-6	PRR1SOLBF-06	T	Solid	SONC	
Prep Batch: 200-37661					
LCS 200-37661/2-C	Lab Control Sample	T	Solid	SONC	
MB 200-37661/1-C	Method Blank	T	Solid	SONC	
200-10396-1	PRR1SOLBF-01	T	Solid	SONC	
200-10396-2	PRR1SOLBF-02	T	Solid	SONC	
200-10396-2MS	Matrix Spike	T	Solid	SONC	
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SONC	
200-10396-3	PRR1SOLBF-03	T	Solid	SONC	
200-10396-4	PRR1SOLBF-04	T	Solid	SONC	
200-10396-5	PRR1SOLBF-05	T	Solid	SONC	
200-10396-6	PRR1SOLBF-06	T	Solid	SONC	
Analysis Batch:200-37986					
LCS 200-37661/2-C	Lab Control Sample	T	Solid	SOM01.2/PCB	200-37661
MB 200-37661/1-C	Method Blank	T	Solid	SOM01.2/PCB	200-37661
200-10396-1	PRR1SOLBF-01	T	Solid	SOM01.2/PCB	200-37661
200-10396-2	PRR1SOLBF-02	T	Solid	SOM01.2/PCB	200-37661
200-10396-2MS	Matrix Spike	T	Solid	SOM01.2/PCB	200-37661
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/PCB	200-37661
200-10396-3	PRR1SOLBF-03	T	Solid	SOM01.2/PCB	200-37661
200-10396-4	PRR1SOLBF-04	T	Solid	SOM01.2/PCB	200-37661
200-10396-5	PRR1SOLBF-05	T	Solid	SOM01.2/PCB	200-37661
200-10396-6	PRR1SOLBF-06	T	Solid	SOM01.2/PCB	200-37661
Analysis Batch:200-37999					
LCS 200-37647/3-D	Lab Control Sample	T	Solid	SOM01.2/Pest	200-37647
MB 200-37647/1-D	Method Blank	T	Solid	SOM01.2/Pest	200-37647
200-10396-1	PRR1SOLBF-01	T	Solid	SOM01.2/Pest	200-37647
200-10396-2	PRR1SOLBF-02	T	Solid	SOM01.2/Pest	200-37647
200-10396-3	PRR1SOLBF-03	T	Solid	SOM01.2/Pest	200-37647
200-10396-4	PRR1SOLBF-04	T	Solid	SOM01.2/Pest	200-37647
200-10396-5	PRR1SOLBF-05	T	Solid	SOM01.2/Pest	200-37647
200-10396-6	PRR1SOLBF-06	T	Solid	SOM01.2/Pest	200-37647

TestAmerica Burlington

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Analysis Batch:200-38013					
LCS 200-37647/2-D	Lab Control Sample	T	Solid	SOM01.2/Pest	200-37647
MB 200-37647/1-D	Method Blank	T	Solid	SOM01.2/Pest	200-37647
200-10396-1	PRR1SOLBF-01	T	Solid	SOM01.2/Pest	200-37647
200-10396-2	PRR1SOLBF-02	T	Solid	SOM01.2/Pest	200-37647
200-10396-2MS	Matrix Spike	T	Solid	SOM01.2/Pest	200-37647
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/Pest	200-37647
200-10396-3	PRR1SOLBF-03	T	Solid	SOM01.2/Pest	200-37647
200-10396-4	PRR1SOLBF-04	T	Solid	SOM01.2/Pest	200-37647
200-10396-5	PRR1SOLBF-05	T	Solid	SOM01.2/Pest	200-37647
200-10396-6	PRR1SOLBF-06	T	Solid	SOM01.2/Pest	200-37647

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 200-37318					
MB 200-37318/11-A	Method Blank	T	Solid	7471B	
200-10396-1	PRR1SOLBF-01	T	Solid	7471B	
200-10396-2	PRR1SOLBF-02	T	Solid	7471B	
200-10396-2DU	Duplicate	T	Solid	7471B	
200-10396-2MS	Matrix Spike	T	Solid	7471B	
200-10396-3	PRR1SOLBF-03	T	Solid	7471B	
200-10396-4	PRR1SOLBF-04	T	Solid	7471B	
200-10396-5	PRR1SOLBF-05	T	Solid	7471B	
200-10396-6	PRR1SOLBF-06	T	Solid	7471B	
Analysis Batch:200-37399					
MB 200-37318/11-A	Method Blank	T	Solid	ISM01.2/HG	200-37318
200-10396-1	PRR1SOLBF-01	T	Solid	ISM01.2/HG	200-37318
200-10396-2	PRR1SOLBF-02	T	Solid	ISM01.2/HG	200-37318
200-10396-2DU	Duplicate	T	Solid	ISM01.2/HG	200-37318
200-10396-2MS	Matrix Spike	T	Solid	ISM01.2/HG	200-37318
200-10396-3	PRR1SOLBF-03	T	Solid	ISM01.2/HG	200-37318
200-10396-4	PRR1SOLBF-04	T	Solid	ISM01.2/HG	200-37318
200-10396-5	PRR1SOLBF-05	T	Solid	ISM01.2/HG	200-37318
200-10396-6	PRR1SOLBF-06	T	Solid	ISM01.2/HG	200-37318
Prep Batch: 200-37534					
LCS 200-37534/2-A	Lab Control Sample	T	Solid	3050B	
MB 200-37534/1-A	Method Blank	T	Solid	3050B	
200-10396-1	PRR1SOLBF-01	T	Solid	3050B	
200-10396-2	PRR1SOLBF-02	T	Solid	3050B	
200-10396-2DU	Duplicate	T	Solid	3050B	
200-10396-2MS	Matrix Spike	T	Solid	3050B	
200-10396-3	PRR1SOLBF-03	T	Solid	3050B	
200-10396-4	PRR1SOLBF-04	T	Solid	3050B	
200-10396-5	PRR1SOLBF-05	T	Solid	3050B	
200-10396-6	PRR1SOLBF-06	T	Solid	3050B	
Analysis Batch:200-37625					
LCS 200-37534/2-A	Lab Control Sample	T	Solid	ISM01.2/ICP	200-37534
MB 200-37534/1-A	Method Blank	T	Solid	ISM01.2/ICP	200-37534
200-10396-1	PRR1SOLBF-01	T	Solid	ISM01.2/ICP	200-37534
200-10396-2	PRR1SOLBF-02	T	Solid	ISM01.2/ICP	200-37534
200-10396-2DU	Duplicate	T	Solid	ISM01.2/ICP	200-37534
200-10396-2MS	Matrix Spike	T	Solid	ISM01.2/ICP	200-37534
200-10396-3	PRR1SOLBF-03	T	Solid	ISM01.2/ICP	200-37534
200-10396-4	PRR1SOLBF-04	T	Solid	ISM01.2/ICP	200-37534
200-10396-5	PRR1SOLBF-05	T	Solid	ISM01.2/ICP	200-37534
200-10396-6	PRR1SOLBF-06	T	Solid	ISM01.2/ICP	200-37534

TestAmerica Burlington

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

QC Association Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Report Basis</u>	<u>Client Matrix</u>	<u>Method</u>	<u>Prep Batch</u>
Metals					
Analysis Batch:200-37777					
200-10396-2	PRR1SOLBF-02	T	Solid	ISM01.2/ICP	200-37534

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/VOA Low/Medium Volatiles

Client Matrix: Solid

Lab Sample ID	Client Sample ID	VCL %Rec	CLA %Rec	DCE %Rec	BUT %Rec	CLF %Rec	DCA %Rec	BEN %Rec	DPA %Rec
200-10425-1	PRR1SOLBF-01	79	87	65	98	87	84	89	83
200-10425-2	PRR1SOLBF-02	83	92	68	122	94	91	98	92
200-10425-3	PRR1SOLBF-03	90	99	73	122	102	95	106	99
200-10425-4	PRR1SOLBF-04	87	95	70	125	99	96	101	96
200-10425-5	PRR1SOLBF-05	91	99	71	130	100	94	106	102
200-10425-6	PRR1SOLBF-06	92	100	73	127	100	95	106	103
200-10425-9	VHBLKLS	88	99	74	60	94	81	101	89
MB 200-37493/3		86	95	71	104	94	91	94	88
MB 200-37505/6		86	94	72	106	94	91	95	88
200-10425-2 MS	PRR1SOLBF-02 MS	85	92	92	124	96	93	98	92
200-10425-2 MSD	PRR1SOLBF-02 MSD	85	92	92	116	94	90	96	90

Surrogate	Acceptance Limits
VCL = Vinyl chloride-d3	68-122
CLA = Chloroethane-d5	61-130
DCE = 1,1-Dichloroethene-d2	45-132
BUT = 2-Butanone-d5	20-182
CLF = Chloroform-d	72-123
DCA = 1,2-Dichloroethane-d4	79-122
BEN = Benzene-d6	80-121
DPA = 1,2-Dichloropropane-d6	74-124

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/VOA Low/Medium Volatiles

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TOL %Rec	TDP %Rec	HEX %Rec	DXE %Rec	TCA %Rec	DCZ %Rec
200-10425-1	PRR1SOLBF-01	91	86	109	84	91	93
200-10425-2	PRR1SOLBF-02	97	94	133	122	108	103
200-10425-3	PRR1SOLBF-03	103	95	141	127	114	110
200-10425-4	PRR1SOLBF-04	100	94	137	125	112	108
200-10425-5	PRR1SOLBF-05	100	90	142	142	116	111
200-10425-6	PRR1SOLBF-06	104	94	146	122	118	116
200-10425-9	VHBLKLS	101	86	70	62	70	97
MB 200-37493/3		96	94	109	99	95	97
MB 200-37505/6		98	96	110	106	97	99
200-10425-2 MS	PRR1SOLBF-02 MS	97	94	137	123	110	104
200-10425-2 MSD	PRR1SOLBF-02 MSD	94	88	129	123	103	101

Surrogate	Acceptance Limits
TOL = Toluene-d8	78-121
TDP = trans-1,3-Dichloropropene-d4	72-130
HEX = 2-Hexanone-d5	17-184
DXE = 1,4-Dioxane-d8	50-150
TCA = 1,1,2,2-Tetrachloroethane-d2	56-161
DCZ = 1,2-Dichlorobenzene-d4	70-131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/VOA Low/Medium Volatiles

Client Matrix: Water

Lab Sample ID	Client Sample ID	VCL %Rec	CLA %Rec	DCE %Rec	BUT %Rec	CLF %Rec	DCA %Rec	BEN %Rec	DPA %Rec
200-10425-7	TB04172012	95	104	74	99	96	90	111	100
MB 200-37842/4		99	105	76	106	97	91	112	103

Surrogate	Acceptance Limits
VCL = Vinyl chloride-d3	65-131
CLA = Chloroethane-d5	71-131
DCE = 1,1-Dichloroethene-d2	55-104
BUT = 2-Butanone-d5	49-155
CLF = Chloroform-d	78-121
DCA = 1,2-Dichloroethane-d4	78-129
BEN = Benzene-d6	77-124
DPA = 1,2-Dichloropropane-d6	79-124

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/VOA Low/Medium Volatiles

Client Matrix: Water

Lab Sample ID	Client Sample ID	TOL %Rec	TDP %Rec	HEX %Rec	DXE %Rec	TCA %Rec	DCZ %Rec
200-10425-7	TB04172012	104	101	107	115	101	103
MB 200-37842/4		105	103	109	110	105	105

Surrogate	Acceptance Limits
TOL = Toluene-d8	77-121
TDP = trans-1,3-Dichloropropene-d4	73-121
HEX = 2-Hexanone-d5	28-135
DXE = 1,4-Dioxane-d8	50-150
TCA = 1,1,2,2-Tetrachloroethane-d2	73-125
DCZ = 1,2-Dichlorobenzene-d4	80-131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report**SOM01.2/SV Semivolatiles****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	PHL %Rec	BCE %Rec	2CP %Rec	4MP %Rec	NBZ %Rec	2NP %Rec	DCP %Rec	4CA %Rec
200-10396-1	PRR1SOLBF-01	103	80	84	97	83	84	81	26
200-10396-2	PRR1SOLBF-02	98	76	82	90	76	78	75	32
200-10396-3	PRR1SOLBF-03	91	74	79	88	76	78	70	21
200-10396-4	PRR1SOLBF-04	91	77	80	86	80	78	71	19
200-10396-5	PRR1SOLBF-05	88	72	76	82	73	72	68	34
200-10396-6	PRR1SOLBF-06	84	70	72	80	71	70	62	33
MB 200-37690/1-B		88	68	74	83	71	71	66	20
200-10396-2 MS	PRR1SOLBF-02 MS	84	73	72	75	70	72	65	21
200-10396-2 MSD	PRR1SOLBF-02 MSD	87	76	75	79	72	72	68	23

Surrogate	Acceptance Limits
PHL = Phenol-d5	17-103
BCE = Bis(2-chloroethyl)ether-d8	12-98
2CP = 2-Chlorophenol-d4	13-101
4MP = 4-Methylphenol-d8	8-100
NBZ = Nitrobenzene-d5	16-103
2NP = 2-Nitrophenol-d4	16-104
DCP = 2,4-Dichlorophenol-d3	23-104
4CA = 4-Chloroaniline-d4	1-145

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/SV Semivolatiles

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DMP %Rec	ACY %Rec	4NP %Rec	FLR %Rec	NMP %Rec	ANC %Rec	PYR %Rec	BAP %Rec
200-10396-1	PRR1SOLBF-01	95	91	45	79	53	87	85	79
200-10396-2	PRR1SOLBF-02	92	88	39	78	46	84	81	78
200-10396-3	PRR1SOLBF-03	84	81	33	75	44	79	87	71
200-10396-4	PRR1SOLBF-04	89	84	29	75	39	86	82	73
200-10396-5	PRR1SOLBF-05	77	76	30	67	40	77	73	68
200-10396-6	PRR1SOLBF-06	80	77	24	69	28	78	78	66
MB 200-37690/1-B		80	76	40	68	48	72	72	69
200-10396-2 MS	PRR1SOLBF-02 MS	81	78	40	71	42	71	76	63
200-10396-2 MSD	PRR1SOLBF-02 MSD	82	78	44	72	46	74	80	69

Surrogate	Acceptance Limits
DMP = Dimethylphthalate-d6	43-111
ACY = Acenaphthylene-d8	20-97
4NP = 4-Nitrophenol-d4	16-166
FLR = Fluorene-d10	40-108
NMP = 4,6-Dinitro-2-methylphenol-d2	1-121
ANC = Anthracene-d10	22-98
PYR = Pyrene-d10	51-120
BAP = Benzo(a)pyrene-d12	43-111

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/PCB Aroclors

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
200-10396-1	PRR1SOLBF-01	80	82	94	94
200-10396-2	PRR1SOLBF-02	81	85	98	97
200-10396-3	PRR1SOLBF-03	82	86	102	98
200-10396-4	PRR1SOLBF-04	80	83	99	98
200-10396-5	PRR1SOLBF-05	80	84	100	101
200-10396-6	PRR1SOLBF-06	79	80	98	99
MB 200-37661/1-C		81	84	101	99
LCS 200-37661/2-C		83	87	101	99
200-10396-2 MS	PRR1SOLBF-02 MS	79	81	98	99
200-10396-2 MSD	PRR1SOLBF-02 MSD	80	82	100	98

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	30-150
DCB = Decachlorobiphenyl	30-150

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/Pest Pesticides

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
200-10396-1	PRR1SOLBF-01	87	87	92	87
200-10396-1	PRR1SOLBF-01	84	92	85	84
200-10396-2	PRR1SOLBF-02	81	81	86	84
200-10396-2	PRR1SOLBF-02	83	91	80	83
200-10396-3	PRR1SOLBF-03	95	92	103	99
200-10396-3	PRR1SOLBF-03	89	100	94	93
200-10396-4	PRR1SOLBF-04	99	96	106	100
200-10396-4	PRR1SOLBF-04	98	107	96	96
200-10396-5	PRR1SOLBF-05	91	89	97	96
200-10396-5	PRR1SOLBF-05	86	94	86	88
200-10396-6	PRR1SOLBF-06	84	83	86	85
200-10396-6	PRR1SOLBF-06	84	93	80	80
MB 200-37647/1-D		84	86	94	89
MB 200-37647/1-D		88	97	88	96
LCS 200-37647/2-D		89	90	98	92
LCS 200-37647/3-D		87	95	88	95
200-10396-2 MS	PRR1SOLBF-02 MS	85	85	90	87
200-10396-2 MSD	PRR1SOLBF-02 MSD	88	88	92	87

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	30-150
DCB = Decachlorobiphenyl	30-150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 200-37334

Method: SOM01.2/VOA

Preparation: SOM01.2/VOA_PR

MS Lab Sample ID: 200-10425-2	Analysis Batch: 200-37493	Instrument ID: N.i
Client Matrix: Solid	Prep Batch: 200-37334	Lab File ID: nfwb07.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 9.4 g
Analysis Date: 04/24/2012 1232		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		10 mL
Leach Date: N/A		

MSD Lab Sample ID: 200-10425-2	Analysis Batch: 200-37493	Instrument ID: N.i
Client Matrix: Solid	Prep Batch: 200-37334	Lab File ID: nfwb08.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 7.15 g
Analysis Date: 04/24/2012 1301		Final Weight/Volume: 5 mL
Prep Date: 04/23/2012 1818		10 mL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1-Dichloroethene	93	93	59 - 172	0	22		
Benzene	94	95	66 - 142	1	21		
Trichloroethene	72	71	62 - 137	1	24		
Toluene	95	94	59 - 139	1	21	B	B
Chlorobenzene	94	93	60 - 133	1	21		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Vinyl chloride-d3	85	85	68 - 122
Chloroethane-d5	92	92	61 - 130
1,1-Dichloroethene-d2	92	92	45 - 132
2-Butanone-d5	124	116	20 - 182
Chloroform-d	96	94	72 - 123
1,2-Dichloroethane-d4	93	90	79 - 122
Benzene-d6	98	96	80 - 121
1,2-Dichloropropane-d6	92	90	74 - 124
Toluene-d8	97	94	78 - 121
trans-1,3-Dichloropropene-d4	94	88	72 - 130
2-Hexanone-d5	137	129	17 - 184
1,4-Dioxane-d8	123	123	50 - 150
1,1,2,2-Tetrachloroethane-d2	110	103	56 - 161
1,2-Dichlorobenzene-d4	104	101	70 - 131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37493

Method: SOM01.2/VOA

Preparation: N/A

Lab Sample ID: MB 200-37493/3
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/24/2012 1052
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-37493
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: N.i
 Lab File ID: nfwb04.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Dichlorodifluoromethane	5.0	U	5.0
Chloromethane	5.0	U	5.0
Vinyl chloride	5.0	U	5.0
Bromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0
Acetone	10	U	10
Carbon disulfide	3.7	J	5.0
Methyl acetate	5.0	U	5.0
Methylene chloride	1.0	J	5.0
trans-1,2-Dichloroethene	5.0	U	5.0
Methyl tert-butyl ether	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
cis-1,2-Dichloroethene	5.0	U	5.0
2-Butanone	10	U	10
Bromochloromethane	5.0	U	5.0
Chloroform	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Cyclohexane	5.0	U	5.0
Carbon tetrachloride	5.0	U	5.0
Benzene	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,4-Dioxane	100	U	100
Trichloroethene	5.0	U	5.0
Methylcyclohexane	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Bromodichloromethane	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
4-Methyl-2-pentanone	10	U	10
Toluene	0.052	J	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
Tetrachloroethene	0.057	J	5.0
2-Hexanone	10	U	10
Dibromochloromethane	5.0	U	5.0
1,2-Dibromoethane	5.0	U	5.0
Chlorobenzene	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
o-Xylene	5.0	U	5.0
m,p-Xylene	5.0	U	5.0
Styrene	5.0	U	5.0
Bromoform	5.0	U	5.0
Isopropylbenzene	5.0	U	5.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37493

Method: SOM01.2/VOA

Preparation: N/A

Lab Sample ID: MB 200-37493/3
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/24/2012 1052
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-37493
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: N.i
 Lab File ID: nfwb04.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	5.0	U	5.0
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,2-Dibromo-3-chloropropane	5.0	U	5.0
1,2,4-Trichlorobenzene	0.30	J	5.0
1,2,3-Trichlorobenzene	0.36	J	5.0

Surrogate	% Rec	Acceptance Limits
Vinyl chloride-d3	86	68 - 122
Chloroethane-d5	95	61 - 130
1,1-Dichloroethene-d2	71	45 - 132
2-Butanone-d5	104	20 - 182
Chloroform-d	94	72 - 123
1,2-Dichloroethane-d4	91	79 - 122
Benzene-d6	94	80 - 121
1,2-Dichloropropane-d6	88	74 - 124
Toluene-d8	96	78 - 121
trans-1,3-Dichloropropene-d4	94	72 - 130
2-Hexanone-d5	109	17 - 184
1,4-Dioxane-d8	99	50 - 150
1,1,2,2-Tetrachloroethane-d2	95	56 - 161
1,2-Dichlorobenzene-d4	97	70 - 131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37505

Method: SOM01.2/VOA

Preparation: N/A

Lab Sample ID: MB 200-37505/6
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/25/2012 0828
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-37505
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: N.i
 Lab File ID: nfwc06.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Dichlorodifluoromethane	5.0	U	5.0
Chloromethane	5.0	U	5.0
Vinyl chloride	5.0	U	5.0
Bromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0
Acetone	10	U	10
Carbon disulfide	5.0	U	5.0
Methyl acetate	5.0	U	5.0
Methylene chloride	1.2	J	5.0
trans-1,2-Dichloroethene	5.0	U	5.0
Methyl tert-butyl ether	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
cis-1,2-Dichloroethene	5.0	U	5.0
2-Butanone	10	U	10
Bromochloromethane	5.0	U	5.0
Chloroform	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Cyclohexane	5.0	U	5.0
Carbon tetrachloride	5.0	U	5.0
Benzene	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,4-Dioxane	100	U	100
Trichloroethene	5.0	U	5.0
Methylcyclohexane	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Bromodichloromethane	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
4-Methyl-2-pentanone	10	U	10
Toluene	0.038	J	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
Tetrachloroethene	0.063	J	5.0
2-Hexanone	10	U	10
Dibromochloromethane	5.0	U	5.0
1,2-Dibromoethane	5.0	U	5.0
Chlorobenzene	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
o-Xylene	5.0	U	5.0
m,p-Xylene	5.0	U	5.0
Styrene	5.0	U	5.0
Bromoform	5.0	U	5.0
Isopropylbenzene	5.0	U	5.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37505

Method: SOM01.2/VOA

Preparation: N/A

Lab Sample ID: MB 200-37505/6
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 04/25/2012 0828
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-37505
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: N.i
 Lab File ID: nfwc06.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	5.0	U	5.0
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,2-Dibromo-3-chloropropane	5.0	U	5.0
1,2,4-Trichlorobenzene	0.33	J	5.0
1,2,3-Trichlorobenzene	0.33	J	5.0

Surrogate	% Rec	Acceptance Limits
Vinyl chloride-d3	86	68 - 122
Chloroethane-d5	94	61 - 130
1,1-Dichloroethene-d2	72	45 - 132
2-Butanone-d5	106	20 - 182
Chloroform-d	94	72 - 123
1,2-Dichloroethane-d4	91	79 - 122
Benzene-d6	95	80 - 121
1,2-Dichloropropane-d6	88	74 - 124
Toluene-d8	98	78 - 121
trans-1,3-Dichloropropene-d4	96	72 - 130
2-Hexanone-d5	110	17 - 184
1,4-Dioxane-d8	106	50 - 150
1,1,2,2-Tetrachloroethane-d2	97	56 - 161
1,2-Dichlorobenzene-d4	99	70 - 131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37842

Method: SOM01.2/VOA

Preparation: SOM01.2/VOA_PR

Lab Sample ID: MB 200-37842/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/30/2012 1111
 Prep Date: 04/30/2012 1111
 Leach Date: N/A

Analysis Batch: 200-37842
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: N.i
 Lab File ID: nftb04.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
Dichlorodifluoromethane	5.0	U	5.0
Chloromethane	5.0	U	5.0
Vinyl chloride	5.0	U	5.0
Bromomethane	5.0	U	5.0
Chloroethane	5.0	U	5.0
Trichlorofluoromethane	5.0	U	5.0
1,1-Dichloroethene	5.0	U	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0
Acetone	10	U	10
Carbon disulfide	0.66	J	5.0
Methyl acetate	5.0	U	5.0
Methylene chloride	0.14	J	5.0
trans-1,2-Dichloroethene	0.31	J	5.0
Methyl tert-butyl ether	5.0	U	5.0
1,1-Dichloroethane	5.0	U	5.0
cis-1,2-Dichloroethene	5.0	U	5.0
2-Butanone	10	U	10
Bromochloromethane	5.0	U	5.0
Chloroform	5.0	U	5.0
1,1,1-Trichloroethane	5.0	U	5.0
Cyclohexane	5.0	U	5.0
Carbon tetrachloride	5.0	U	5.0
Benzene	5.0	U	5.0
1,2-Dichloroethane	5.0	U	5.0
1,4-Dioxane	100	U	100
Trichloroethene	5.0	U	5.0
Methylcyclohexane	5.0	U	5.0
1,2-Dichloropropane	5.0	U	5.0
Bromodichloromethane	5.0	U	5.0
cis-1,3-Dichloropropene	5.0	U	5.0
4-Methyl-2-pentanone	10	U	10
Toluene	5.0	U	5.0
trans-1,3-Dichloropropene	5.0	U	5.0
1,1,2-Trichloroethane	5.0	U	5.0
Tetrachloroethene	0.087	J	5.0
2-Hexanone	10	U	10
Dibromochloromethane	5.0	U	5.0
1,2-Dibromoethane	5.0	U	5.0
Chlorobenzene	5.0	U	5.0
Ethylbenzene	5.0	U	5.0
o-Xylene	5.0	U	5.0
m,p-Xylene	5.0	U	5.0
Styrene	5.0	U	5.0
Bromoform	5.0	U	5.0
Isopropylbenzene	5.0	U	5.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37842

Method: SOM01.2/VOA

Preparation: SOM01.2/VOA_PR

Lab Sample ID: MB 200-37842/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 04/30/2012 1111
 Prep Date: 04/30/2012 1111
 Leach Date: N/A

Analysis Batch: 200-37842
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: N.i
 Lab File ID: nftb04.d
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	RL
1,1,2,2-Tetrachloroethane	5.0	U	5.0
1,3-Dichlorobenzene	5.0	U	5.0
1,4-Dichlorobenzene	5.0	U	5.0
1,2-Dichlorobenzene	5.0	U	5.0
1,2-Dibromo-3-chloropropane	5.0	U	5.0
1,2,4-Trichlorobenzene	0.55	J	5.0
1,2,3-Trichlorobenzene	0.60	J	5.0

Surrogate	% Rec	Acceptance Limits
Vinyl chloride-d3	99	65 - 131
Chloroethane-d5	105	71 - 131
1,1-Dichloroethene-d2	76	55 - 104
2-Butanone-d5	106	49 - 155
Chloroform-d	97	78 - 121
1,2-Dichloroethane-d4	91	78 - 129
Benzene-d6	112	77 - 124
1,2-Dichloropropane-d6	103	79 - 124
Toluene-d8	105	77 - 121
trans-1,3-Dichloropropene-d4	103	73 - 121
2-Hexanone-d5	109	28 - 135
1,4-Dioxane-d8	110	50 - 150
1,1,2,2-Tetrachloroethane-d2	105	73 - 125
1,2-Dichlorobenzene-d4	105	80 - 131

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37690

Method: SOM01.2/SV

Preparation: SONC

Lab Sample ID: MB 200-37690/1-B
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 05/03/2012 1033
 Prep Date: 04/27/2012 1153
 Leach Date: N/A

Analysis Batch: 200-38069
 Prep Batch: 200-37690
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: P.i
 Lab File ID: pjcgj05.d
 Initial Weight/Volume: 30.05 g
 Final Weight/Volume: 10000 uL
 Injection Volume: 2 uL

Analyte	Result	Qual	RL
Pyridine	170	U	170
Benzaldehyde	12	J	170
Phenol	170	U	170
Bis(2-chloroethyl)ether	170	U	170
2-Chlorophenol	170	U	170
2-Methylphenol	170	U	170
2,2'-Oxybis(1-chloropropane)	170	U	170
Acetophenone	170	U	170
4-Methylphenol	170	U	170
N-Nitroso-di-n-propylamine	170	U	170
Hexachloroethane	170	U	170
Nitrobenzene	170	U	170
Isophorone	170	U	170
2-Nitrophenol	170	U	170
2,4-Dimethylphenol	170	U	170
Bis(2-chloroethoxy)methane	170	U	170
2,4-Dichlorophenol	170	U	170
Naphthalene	170	U	170
4-Chloroaniline	170	U	170
Hexachlorobutadiene	170	U	170
Caprolactam	170	U	170
4-Chloro-3-methylphenol	170	U	170
2-Methylnaphthalene	170	U	170
Hexachlorocyclopentadiene	170	U	170
2,4,6-Trichlorophenol	170	U	170
2,4,5-Trichlorophenol	170	U	170
1,1'-Biphenyl	170	U	170
2-Chloronaphthalene	170	U	170
2-Nitroaniline	330	U	330
Dimethylphthalate	170	U	170
2,6-Dinitrotoluene	170	U	170
Acenaphthylene	170	U	170
3-Nitroaniline	330	U	330
Acenaphthene	170	U	170
2,4-Dinitrophenol	330	U	330
4-Nitrophenol	330	U	330
Dibenzofuran	170	U	170
2,4-Dinitrotoluene	170	U	170
Diethylphthalate	170	U	170
Fluorene	170	U	170
4-Chlorophenyl-phenylether	170	U	170
4-Nitroaniline	330	U	330
4,6-Dinitro-2-methylphenol	330	U	330
N-Nitrosodiphenylamine	170	U	170
1,2,4,5-Tetrachlorobenzene	170	U	170

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Method Blank - Batch: 200-37690

Method: SOM01.2/SV

Preparation: SONC

Lab Sample ID: MB 200-37690/1-B
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 05/03/2012 1033
 Prep Date: 04/27/2012 1153
 Leach Date: N/A

Analysis Batch: 200-38069
 Prep Batch: 200-37690
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: P.i
 Lab File ID: pjcgj05.d
 Initial Weight/Volume: 30.05 g
 Final Weight/Volume: 10000 uL
 Injection Volume: 2 uL

Analyte	Result	Qual	RL
4-Bromophenyl-phenylether	170	U	170
Hexachlorobenzene	170	U	170
Atrazine	170	U	170
Pentachlorophenol	330	U	330
Phenanthrene	170	U	170
Anthracene	170	U	170
Carbazole	170	U	170
Di-n-butylphthalate	170	U	170
Fluoranthene	170	U	170
Pyrene	170	U	170
Butylbenzylphthalate	170	U	170
3,3'-Dichlorobenzidine	170	U	170
Benzo(a)anthracene	170	U	170
Chrysene	170	U	170
Bis(2-ethylhexyl)phthalate	170	U	170
Di-n-octylphthalate	170	U	170
Benzo(b)fluoranthene	170	U	170
Benzo(k)fluoranthene	170	U	170
Benzo(a)pyrene	170	U	170
Indeno(1,2,3-cd)pyrene	170	U	170
Dibenzo(a,h)anthracene	170	U	170
Benzo(g,h,i)perylene	170	U	170
2,3,4,6-Tetrachlorophenol	170	U	170

Surrogate	% Rec	Acceptance Limits
Phenol-d5	88	17 - 103
Bis(2-chloroethyl)ether-d8	68	12 - 98
2-Chlorophenol-d4	74	13 - 101
4-Methylphenol-d8	83	8 - 100
Nitrobenzene-d5	71	16 - 103
2-Nitrophenol-d4	71	16 - 104
2,4-Dichlorophenol-d3	66	23 - 104
4-Chloroaniline-d4	20	1 - 145
Dimethylphthalate-d6	80	43 - 111
Acenaphthylene-d8	76	20 - 97
4-Nitrophenol-d4	40	16 - 166
Fluorene-d10	68	40 - 108
4,6-Dinitro-2-methylphenol-d2	48	1 - 121
Anthracene-d10	72	22 - 98
Pyrene-d10	72	51 - 120
Benzo(a)pyrene-d12	69	43 - 111

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37690**

**Method: SOM01.2/SV
Preparation: SONC**

MS Lab Sample ID: 200-10396-2	Analysis Batch: 200-38070	Instrument ID: P.i
Client Matrix: Solid	Prep Batch: 200-37690	Lab File ID: pjcgm08.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.68 g
Analysis Date: 05/04/2012 0817		Final Weight/Volume: 10000 uL
Prep Date: 04/27/2012 1153		Injection Volume: 2 uL
Leach Date: N/A		

MSD Lab Sample ID: 200-10396-2	Analysis Batch: 200-38070	Instrument ID: P.i
Client Matrix: Solid	Prep Batch: 200-37690	Lab File ID: pjcgm09.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.04 g
Analysis Date: 05/04/2012 0858		Final Weight/Volume: 10000 uL
Prep Date: 04/27/2012 1153		Injection Volume: 2 uL
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Phenol	62	66	26 - 90	7	35		
2-Chlorophenol	68	73	25 - 102	8	50		
N-Nitroso-di-n-propylamine	70	71	41 - 126	2	38		
4-Chloro-3-methylphenol	70	76	26 - 103	9	33		
Acenaphthene	72	73	31 - 137	2	19		
4-Nitrophenol	49	55	11 - 114	12	50		
2,4-Dinitrotoluene	70	74	28 - 89	7	47		
Pentachlorophenol	48	53	17 - 109	11	47		
Pyrene	76	80	35 - 142	6	36		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Phenol-d5	84	87	17 - 103
Bis(2-chloroethyl)ether-d8	73	76	12 - 98
2-Chlorophenol-d4	72	75	13 - 101
4-Methylphenol-d8	75	79	8 - 100
Nitrobenzene-d5	70	72	16 - 103
2-Nitrophenol-d4	72	72	16 - 104
2,4-Dichlorophenol-d3	65	68	23 - 104
4-Chloroaniline-d4	21	23	1 - 145
Dimethylphthalate-d6	81	82	43 - 111
Acenaphthylene-d8	78	78	20 - 97
4-Nitrophenol-d4	40	44	16 - 166
Fluorene-d10	71	72	40 - 108
4,6-Dinitro-2-methylphenol-d2	42	46	1 - 121
Anthracene-d10	71	74	22 - 98
Pyrene-d10	76	80	51 - 120
Benzo(a)pyrene-d12	63	69	43 - 111

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Method Blank - Batch: 200-37661

**Method: SOM01.2/PCB
Preparation: SONC**

Lab Sample ID: MB 200-37661/1-C
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 0932
Prep Date: 04/27/2012 0836
Leach Date: N/A

Analysis Batch: 200-37986
Prep Batch: 200-37661
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 5253.i
Lab File ID: 01may121509-r011.d
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Aroclor-1016	33	U	33
Aroclor-1221	33	U	33
Aroclor-1232	33	U	33
Aroclor-1242	33	U	33
Aroclor-1248	33	U	33
Aroclor-1254	33	U	33
Aroclor-1260	33	U	33
Aroclor-1262	33	U	33
Aroclor-1268	33	U	33

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	81	30 - 150
Decachlorobiphenyl	99	30 - 150

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	84	30 - 150
Decachlorobiphenyl	101	30 - 150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Lab Control Sample - Batch: 200-37661

**Method: SOM01.2/PCB
Preparation: SONC**

Lab Sample ID:	LCS 200-37661/2-C	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r021.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.02 g
Analysis Date:	05/02/2012 0956	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	33.3	38	113	50 - 150	
Aroclor-1260	33.3	40	119	50 - 150	
Surrogate		% Rec		Acceptance Limits	
Tetrachloro-m-xylene		83		30 - 150	
Decachlorobiphenyl		99		30 - 150	

Lab Control Sample - Batch: 200-37661

**Method: SOM01.2/PCB
Preparation: SONC**

Lab Sample ID:	LCS 200-37661/2-C	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r021.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.02 g
Analysis Date:	05/02/2012 0956	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	33.3	38	115	50 - 150	
Aroclor-1260	33.3	40	120	50 - 150	
Surrogate		% Rec		Acceptance Limits	
Tetrachloro-m-xylene		87		30 - 150	
Decachlorobiphenyl		101		30 - 150	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37661**

**Method: SOM01.2/PCB
Preparation: SONC**

MS Lab Sample ID:	200-10396-2	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r071.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.91 g
Analysis Date:	05/02/2012 1155			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	200-10396-2	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r061.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.15 g
Analysis Date:	05/02/2012 1131			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor-1016	88	88	29 - 135	0	15		
Aroclor-1260	92	90	29 - 135	2	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Tetrachloro-m-xylene	79		80	30 - 150			
Decachlorobiphenyl	98		98	30 - 150			

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37661**

**Method: SOM01.2/PCB
Preparation: SONC**

MS Lab Sample ID:	200-10396-2	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r071.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	29.91 g
Analysis Date:	05/02/2012 1155			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

MSD Lab Sample ID:	200-10396-2	Analysis Batch:	200-37986	Instrument ID:	5253.i
Client Matrix:	Solid	Prep Batch:	200-37661	Lab File ID:	01may121509-r061.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.15 g
Analysis Date:	05/02/2012 1131			Final Weight/Volume:	10000 uL
Prep Date:	04/27/2012 0836			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Aroclor-1016	88	88	29 - 135	1	15		
Aroclor-1260	94	91	29 - 135	3	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Tetrachloro-m-xylene	81		82	30 - 150			
Decachlorobiphenyl	99		100	30 - 150			

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Method Blank - Batch: 200-37647

**Method: SOM01.2/Pest
Preparation: SONC**

Lab Sample ID: MB 200-37647/1-D
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1202
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-38013
Prep Batch: 200-37647
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 0911.i
Lab File ID: 02may121113-r031.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
alpha-BHC	0.054	J P	1.7
beta-BHC	0.065	J	1.7
delta-BHC	0.013	J P	1.7
gamma-BHC (Lindane)	1.7	U	1.7
Heptachlor	1.7	U	1.7
Aldrin	1.7	U	1.7
Heptachlor epoxide	1.7	U	1.7
Endosulfan I	1.7	U	1.7
Dieldrin	3.3	U	3.3
4,4'-DDE	3.3	U	3.3
Endrin	3.3	U	3.3
Endosulfan II	3.3	U	3.3
4,4'-DDD	3.3	U	3.3
Endosulfan sulfate	3.3	U	3.3
4,4'-DDT	3.3	U	3.3
Methoxychlor	0.082	J P	17
Endrin ketone	3.3	U	3.3
Endrin aldehyde	3.3	U	3.3
alpha-Chlordane	1.7	U	1.7
gamma-Chlordane	0.12	J P	1.7
Toxaphene	170	U	170

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	84	30 - 150
Decachlorobiphenyl	89	30 - 150

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	86	30 - 150
Decachlorobiphenyl	94	30 - 150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Method Blank - Batch: 200-37647

**Method: SOM01.2/Pest
Preparation: SONC**

Lab Sample ID: MB 200-37647/1-D
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1739
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-37999
Prep Batch: 200-37647
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 0911.i
Lab File ID: 02may121530-r031.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
2,4'-DDE	3.3	U	3.3
2,4'-DDT	3.3	U	3.3
2,4'-DDD	3.3	U	3.3

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	30 - 150
Decachlorobiphenyl	88	30 - 150

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	97	30 - 150
Decachlorobiphenyl	96	30 - 150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

Sdg Number: PRR1220

Lab Control Sample - Batch: 200-37647

Method: SOM01.2/Pest

Preparation: SONC

Lab Sample ID: LCS 200-37647/2-D
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 05/02/2012 1225
 Prep Date: 04/26/2012 2353
 Leach Date: N/A

Analysis Batch: 200-38013
 Prep Batch: 200-37647
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: 0911.i
 Lab File ID: 02may121113-r041.d
 Initial Weight/Volume: 30.00 g
 Final Weight/Volume: 10000 uL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
gamma-BHC (Lindane)	1.67	1.1	68	50 - 120	J P
Heptachlor epoxide	1.67	1.3	79	50 - 150	J P
Dieldrin	3.33	2.7	82	30 - 130	J
4,4'-DDE	3.33	2.7	81	50 - 150	J
Endrin	3.33	2.9	86	50 - 120	J
Endosulfan sulfate	3.33	2.7	82	50 - 120	J
gamma-Chlordane	1.67	1.4	82	30 - 130	J B

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	89	30 - 150
Decachlorobiphenyl	92	30 - 150

Lab Control Sample - Batch: 200-37647

Method: SOM01.2/Pest

Preparation: SONC

Lab Sample ID: LCS 200-37647/2-D
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 05/02/2012 1225
 Prep Date: 04/26/2012 2353
 Leach Date: N/A

Analysis Batch: 200-38013
 Prep Batch: 200-37647
 Leach Batch: N/A
 Units: ug/Kg

Instrument ID: 0911.i
 Lab File ID: 02may121113-r041.d
 Initial Weight/Volume: 30.00 g
 Final Weight/Volume: 10000 uL
 Injection Volume: 1 uL
 Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
gamma-BHC (Lindane)	1.67	1.5	87	50 - 120	J P
Heptachlor epoxide	1.67	1.7	99	50 - 150	J P
Dieldrin	3.33	3.1	92	30 - 130	J
4,4'-DDE	3.33	3.1	93	50 - 150	J
Endrin	3.33	3.2	97	50 - 120	J
Endosulfan sulfate	3.33	3.0	90	50 - 120	J
gamma-Chlordane	1.67	1.7	99	30 - 130	J B

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	90	30 - 150
Decachlorobiphenyl	98	30 - 150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Lab Control Sample - Batch: 200-37647

**Method: SOM01.2/Pest
Preparation: SONC**

Lab Sample ID: LCS 200-37647/3-D
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1809
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-37999
Prep Batch: 200-37647
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 0911.i
Lab File ID: 02may121530-r041.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4'-DDE	3.33	2.7	82	50 - 150	J P
Surrogate			% Rec	Acceptance Limits	
Tetrachloro-m-xylene			87	30 - 150	
Decachlorobiphenyl			88	30 - 150	

Lab Control Sample - Batch: 200-37647

**Method: SOM01.2/Pest
Preparation: SONC**

Lab Sample ID: LCS 200-37647/3-D
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1809
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-37999
Prep Batch: 200-37647
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 0911.i
Lab File ID: 02may121530-r041.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: SECONDARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4'-DDE	3.33	3.7	110	50 - 150	P
Surrogate			% Rec	Acceptance Limits	
Tetrachloro-m-xylene			95	30 - 150	
Decachlorobiphenyl			95	30 - 150	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37647**

**Method: SOM01.2/Pest
Preparation: SONC**

MS Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1358
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-38013
Prep Batch: 200-37647
Leach Batch: N/A

Instrument ID: 0911.i
Lab File ID: 02may121113-r081.d
Initial Weight/Volume: 30.14 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/02/2012 1335
Prep Date: 04/26/2012 2353
Leach Date: N/A

Analysis Batch: 200-38013
Prep Batch: 200-37647
Leach Batch: N/A

Instrument ID: 0911.i
Lab File ID: 02may121113-r071.d
Initial Weight/Volume: 30.70 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
gamma-BHC (Lindane)	74	73	46 - 127	1	50		
Heptachlor	72	71	35 - 130	0	31		
Aldrin	70	70	34 - 132	1	43		
Dieldrin	87	86	31 - 134	1	38		
Endrin	91	89	42 - 139	2	45		
4,4'-DDT	87	85	23 - 134	3	50		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
Tetrachloro-m-xylene		85	88			30 - 150	
Decachlorobiphenyl		87	87			30 - 150	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37647**

**Method: SOM01.2/Pest
Preparation: SONC**

MS Lab Sample ID: 200-10396-2	Analysis Batch: 200-38013	Instrument ID: 0911.i
Client Matrix: Solid	Prep Batch: 200-37647	Lab File ID: 02may121113-r081.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.14 g
Analysis Date: 05/02/2012 1358		Final Weight/Volume: 10000 uL
Prep Date: 04/26/2012 2353		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

MSD Lab Sample ID: 200-10396-2	Analysis Batch: 200-38013	Instrument ID: 0911.i
Client Matrix: Solid	Prep Batch: 200-37647	Lab File ID: 02may121113-r071.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 30.70 g
Analysis Date: 05/02/2012 1335		Final Weight/Volume: 10000 uL
Prep Date: 04/26/2012 2353		Injection Volume: 1 uL
Leach Date: N/A		Column ID: SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
gamma-BHC (Lindane)	84	83	46 - 127	1	50		
Heptachlor	84	84	35 - 130	0	31		
Aldrin	83	83	34 - 132	0	43		
Dieldrin	89	87	31 - 134	2	38		
Endrin	94	91	42 - 139	2	45		
4,4'-DDT	89	87	23 - 134	2	50		
Surrogate		MS % Rec	MSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene		85	88		30 - 150		
Decachlorobiphenyl		90	92		30 - 150		

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Method Blank - Batch: 200-37318

**Method: ISM01.2/HG
Preparation: 7471B**

Lab Sample ID: MB 200-37318/11-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/24/2012 1122
Prep Date: 04/23/2012 1520
Leach Date: N/A

Analysis Batch: 200-37399
Prep Batch: 200-37318
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MEPCV3 II
Lab File ID: 042412CC.PRN
Initial Weight/Volume: 0.50 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDLE	RL
Mercury	-0.015	J	0.011	0.10

Matrix Spike - Batch: 200-37318

**Method: ISM01.2/HG
Preparation: 7471B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/24/2012 1131
Prep Date: 04/23/2012 1520
Leach Date: N/A

Analysis Batch: 200-37399
Prep Batch: 200-37318
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MEPCV3 II
Lab File ID: 042412CC.PRN
Initial Weight/Volume: 0.54 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.093 U	0.186	0.22	121	75 - 125	

Duplicate - Batch: 200-37318

**Method: ISM01.2/HG
Preparation: 7471B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/24/2012 1129
Prep Date: 04/23/2012 1520
Leach Date: N/A

Analysis Batch: 200-37399
Prep Batch: 200-37318
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MEPCV3 II
Lab File ID: 042412CC.PRN
Initial Weight/Volume: 0.54 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.093 U	0.012	200	0.093	J

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Method Blank - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: MB 200-37534/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/26/2012 1154
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Aluminum	20.0	U	2.9	20.0
Antimony	6.0	U	0.39	6.0
Arsenic	1.0	U	0.42	1.0
Barium	20.0	U	0.38	20.0
Beryllium	0.50	U	0.035	0.50
Cadmium	0.50	U	0.035	0.50
Calcium	500	U	6.9	500
Chromium	1.0	U	0.044	1.0
Cobalt	5.0	U	0.13	5.0
Copper	2.5	U	0.16	2.5
Iron	10.0	U	2.6	10.0
Lead	1.0	U	0.33	1.0
Magnesium	500	U	13.0	500
Manganese	1.5	U	0.043	1.5
Nickel	4.0	U	0.19	4.0
Potassium	500	U	8.1	500
Selenium	3.5	U	0.27	3.5
Silver	1.0	U	0.078	1.0
Sodium	3.6	J	2.9	500
Thallium	2.5	U	0.14	2.5
Vanadium	5.0	U	0.13	5.0
Zinc	6.0	U	0.13	6.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Lab Control Sample - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: LCS 200-37534/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/26/2012 1200
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	40.0	39.6	99	70 - 130	
Antimony	12.0	11.5	96	70 - 130	
Arsenic	2.00	2.1	105	70 - 130	
Barium	40.0	40.6	101	70 - 130	
Beryllium	1.00	1.1	111	70 - 130	
Cadmium	1.00	1.1	112	70 - 130	
Calcium	1000	1030	103	70 - 130	
Chromium	2.00	2.2	110	70 - 130	
Cobalt	10.0	10.1	101	70 - 130	
Copper	5.00	4.9	98	70 - 130	
Iron	20.0	20.0	100	70 - 130	
Lead	2.00	2.0	99	70 - 130	
Magnesium	1000	1030	103	70 - 130	
Manganese	3.00	2.9	97	70 - 130	
Nickel	8.00	7.7	97	70 - 130	
Potassium	1000	1030	103	70 - 130	
Selenium	7.00	6.6	94	70 - 130	
Silver	2.00	2.2	109	70 - 130	
Sodium	1000	1020	102	70 - 130	
Thallium	5.00	5.0	101	70 - 130	
Vanadium	10.0	10.3	103	70 - 130	
Zinc	12.0	11.7	97	70 - 130	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Matrix Spike - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/26/2012 1240
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.40 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	4.6 U	14.3	11.0	77	75 - 125	
Arsenic	3.7	5.73	9.0	92	75 - 125	
Barium	2.6 J	287	245	85	75 - 125	
Beryllium	0.13 J	7.16	5.9	81	75 - 125	
Cadmium	0.10 J	7.16	5.6	77	75 - 125	
Cobalt	2.2 J	71.6	63.9	86	75 - 125	
Copper	4.0	35.8	39.5	99	75 - 125	
Lead	5.4	2.87	8.4	105	75 - 125	
Nickel	3.8	71.6	63.7	84	75 - 125	
Selenium	2.7 U	7.16	7.1	100	75 - 125	
Silver	0.76 U	7.16	7.8	108	75 - 125	
Thallium	1.9 U	7.16	6.8	95	75 - 125	
Vanadium	5.1	71.6	71.8	93	75 - 125	
Zinc	0.52 J	71.6	67.8	94	75 - 125	

Matrix Spike - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 10
Analysis Date: 04/26/2012 1247
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.40 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	2.7	28.7	32.4	104	75 - 125	

Matrix Spike - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 20
Analysis Date: 04/26/2012 1412
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.40 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
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Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Matrix Spike - Batch: 200-37534

Method: ISM01.2/ICP
Preparation: 3050B

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37625	Instrument ID:	METICP7
Client Matrix:	Solid	Prep Batch:	200-37534	Lab File ID:	042612-01.ttx
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	1.40 g
Analysis Date:	04/26/2012 1412	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/25/2012 1600				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Manganese	191	71.6	243	73	75 - 125	N

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1
Sdg Number: PRR1220

Duplicate - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/26/2012 1234
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.35 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	461	580	23		*
Antimony	4.6 U	4.5			U
Arsenic	3.7	3.9	4	0.76	
Barium	2.6 J	2.8	8	15.2	J
Beryllium	0.13 J	0.14	5	0.38	J
Cadmium	0.10 J	0.10	3	0.38	J
Chromium	2.7	3.1	14	0.76	
Cobalt	2.2 J	1.9	11	3.8	J
Copper	4.0	4.3	7	1.9	
Iron	5330	5020	6		
Lead	5.4	6.2	14		
Nickel	3.8	4.1	8	3.0	
Potassium	331 J	411	21	380	
Selenium	2.7 U	2.6			U
Silver	0.76 U	0.74			U
Sodium	129 J	110	16	380	J
Thallium	1.9 U	1.9			U
Vanadium	5.1	5.9	14	3.8	
Zinc	0.52 J	4.5	200	4.6	U

Duplicate - Batch: 200-37534

**Method: ISM01.2/ICP
Preparation: 3050B**

Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 20
Analysis Date: 04/26/2012 1405
Prep Date: 04/25/2012 1600
Leach Date: N/A

Analysis Batch: 200-37625
Prep Batch: 200-37534
Leach Batch: N/A
Units: mg/Kg

Instrument ID: METICP7
Lab File ID: 042612-01.ttx
Initial Weight/Volume: 1.35 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Calcium	190000	177000	7		
Magnesium	109000	102000	7		
Manganese	191	175	9		

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 1

PROJECT NAME		Requested Analyses													SDG NUMBER	COC Number								
Tierra Phase I Removal															PRR1220									
SAMPLE ID	DATE	TIME	MATRIX	Composite/Grab	# Containers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Remarks	
PRR1SOLBF-01	4/17/2012	13:00	soil	Composite	6	X	X	X	X	X	X	X	X	X										
PRR1SOLBF-02	4/17/2012	13:10	soil	Composite	18	X	X	X	X	X	X	X	X	X										MS and MSD
PRR1SOLBF-03	4/17/2012	13:20	soil	Composite	6	X	X	X	X	X	X	X	X	X										
PRR1SOLBF-04	4/17/2012	13:30	soil	Composite	6	X	X	X	X	X	X	X	X	X										
PRR1SOLBF-05	4/17/2012	13:40	soil	Composite	6	X	X	X	X	X	X	X	X	X										
PRR1SOLBF-06	4/17/2012	13:50	soil	Composite	6	X	X	X	X	X	X	X	X	X										
TB04172012	4/17/2012		water	-	3	X																		
<p>Requested Analyses</p> <p>Special Instructions/Comments: <input type="checkbox"/> Special QA/QC Instructions</p> <p>Refer to RAWP QAPP Worksheet 15-1 for Backfill Samples</p>																								
<p>Requested Analyses</p> <p>1 1 VOCs</p> <p>2 2 SVOCs</p> <p>3 3 Aroclor PCBs</p> <p>4 4 Pesticides</p> <p>5 5 Metals</p> <p>6 6 Herbicides</p> <p>7 pH</p> <p>8 Grain Size</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p>																								
<p>Lab Name: TestAmerica -Burlington, VT</p> <p>Shipping Tracking #</p> <p>Specify Turnaround Requirements: standard TAT</p>												<p>Laboratory Information and Receipt</p> <p><input checked="" type="checkbox"/> Cooler packed with ice</p> <p><input checked="" type="checkbox"/> Cooler custody seal intact</p> <p>Sample Receipt:</p> <p>Condition/Cooler Temp: 5.0°C</p>												
Relinquished by:		DATE		TIME		Received by:		DATE		TIME		Relinquished by:		DATE		TIME		Received by:		DATE		TIME		
Kevin Gandhi		04/17/12		1830		[Signature]		04/18/12		1620		[Signature]						[Signature]						
Relinquished by:		DATE		TIME		Received by:		DATE		TIME		Relinquished by:		DATE		TIME		Received by:		DATE		TIME		
Relinquished by:		DATE		TIME		Received by:		DATE		TIME		Relinquished by:		DATE		TIME		Received by:		DATE		TIME		

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 1

PROJECT NAME		Requested Analyses																
Terra Phase I Removal		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SAMPLE ID	DATE	TIME	MATRIX	Composite/Grab	# Containers	Remarks												
PRR1SOLBF-01	4/20/2012	13:00	soil	Composite	3	MS and MSD												
PRR1SOLBF-02	4/20/2012	13:10	soil	Composite	9													
PRR1SOLBF-03	4/20/2012	13:20	soil	Composite	3													
PRR1SOLBF-04	4/20/2012	13:30	soil	Composite	3													
PRR1SOLBF-05	4/20/2012	13:40	soil	Composite	3													
PRR1SOLBF-06	4/20/2012	13:50	soil	Composite	3													
T804172012	4/20/2012		water		3													
Special Instructions/Comments:		<input type="checkbox"/> Special QA/QC Instructions Refer to RAWP QAPP Worksheet 15-1 for Backfill Samples																
Requested Analyses		<input type="checkbox"/> 1 VOCs <input type="checkbox"/> 2 SVOCs <input type="checkbox"/> 3 Aroclor PCBs <input type="checkbox"/> 4 Pesticides <input type="checkbox"/> 5 Metals <input type="checkbox"/> 6 Herbicides <input type="checkbox"/> 7 pH <input type="checkbox"/> 8 Grain Size <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16																
Lab Name: TestAmerica - Burlington, VT		Shipping Tracking # Specify Turnaround Requirements: standard TAT Relinquished by: <i>Harry Gaudin</i> DATE: 04/20/12 TIME: 1730 Received by: <i>TA-502</i> DATE: 04/20/12 TIME: 0935 Relinquished by: DATE: TIME: Received by: DATE: TIME:																
Laboratory Information and Receipt		<input type="checkbox"/> Cooler packed with ice <input checked="" type="checkbox"/> Cooler custody seal intact Sample Receipt: DATE: Received by: Condition/Cooler Temp: <i>7.9°C</i> DATE: Received by:																

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

SDG Number: PRR1220

Login Number: 10396

List Source: TestAmerica Burlington

List Number: 1

Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	416687,688,685,686
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,0.8°C IR GUN ID 154/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-10396-1

SDG Number: PRR1220

Login Number: 10425

List Source: TestAmerica Burlington

List Number: 1

Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO SEAL NUMBERS
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4°C IR GUN ID 154/CF=-0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified.	N/A	
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.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

1 From
 Date 09/16/04 Sender's FedEx Account Number 304975327
 Sender's Name Kevin G. Smith Phone 714 352 1033
 Company ARADIS
 Address 11700 E. ...
 City Newark State NJ ZIP 07105

2 Your Internal Billing Reference 11700 E. ... 0002, 70004

3 To
 Recipient's Name K. P. Young Phone 714 352 1033
 Company Fed America
 Address 11700 E. ...
 City Newark State NJ ZIP 07105



8769 0286 0435

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully.

NEW BUSINESS DAY 20/3 BUSINESS DAYS

06 FedEx First Overnight
 01 FedEx Priority Overnight
 05 FedEx Standard Overnight

49 NEW FedEx 2Day A.M.
 03 FedEx 2Day
 20 FedEx Express Saver

5 Packaging *Declared value limit \$500

06 FedEx Envelope* 02 FedEx Pak* 03 FedEx Box 04 FedEx Tube 01 Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

No Signature Required
 Direct Signature
 Indirect Signature

Does this shipment contain dangerous goods?
 No 04 Yes
 Dry Ice
 Cargo Aircraft Only

7 Payment Bill to:

Sender 1 Recipient 2 Third Party 3 Credit Card 4 Cash/Check 5

Total Packages Total Weight Credit Card Acct.

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1 From
 Date 09/16/04 Sender's FedEx Account Number 304975327
 Sender's Name Kevin G. Smith Phone 714 352 1033
 Company ARADIS
 Address 11700 E. ...
 City Newark State NJ ZIP 07105

2 Your Internal Billing Reference 11700 E. ... 0002, 70004

3 To
 Recipient's Name K. P. Young Phone 714 352 1033
 Company Fed America
 Address 11700 E. ...
 City Newark State NJ ZIP 07105



8769 0286 0446

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully.

NEW BUSINESS DAY 20/3 BUSINESS DAYS

06 FedEx First Overnight
 01 FedEx Priority Overnight
 05 FedEx Standard Overnight

49 NEW FedEx 2Day A.M.
 03 FedEx 2Day
 20 FedEx Express Saver

5 Packaging *Declared value limit \$500

06 FedEx Envelope* 02 FedEx Pak* 03 FedEx Box 04 FedEx Tube 01 Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

No Signature Required
 Direct Signature
 Indirect Signature

Does this shipment contain dangerous goods?
 No 04 Yes
 Dry Ice
 Cargo Aircraft Only

7 Payment Bill to:

Sender 1 Recipient 2 Third Party 3 Credit Card 4 Cash/Check 5

Total Packages Total Weight Credit Card Acct.

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Sender's Tracking Number

8769 0286 0468

0200

FedEx Retrieval Copy

From

Form ID No.

Date: 11/17/09
Sender's Name: Brian Taylor
Company: [Handwritten]
Address: [Handwritten]
City: [Handwritten] State: VA ZIP: [Handwritten]

Sender's FedEx Account Number: 201995327
Phone: [Handwritten]
Company: [Handwritten]
Address: [Handwritten]
City: [Handwritten] State: VA ZIP: [Handwritten]

2 Your Internal Billing Reference

[Handwritten]

3 To
Recipient's Name: [Handwritten]
Company: [Handwritten]
Address: [Handwritten]
City: [Handwritten] State: VA ZIP: [Handwritten]

4 Express Package Service
NOTE: Service order line changed. Please select carefully.
 FedEx First Overnight
 FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx 2Day
 FedEx 2Day A.M.
 FedEx Express Saver
 FedEx Envelope
 FedEx Pak
 FedEx Box
 FedEx Tube
 FedEx Mailer

5 Packaging

No Signature Required
 Direct Signature
 Indirect Signature
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)

6 Special Handling and Delivery Signature Options

SATURDAY DELIVERY
 No Signature Required
 Direct Signature
 Indirect Signature
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)
 Signature Required (Signature for delivery)

7 Payment Bill to:

Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check
 Bill to me in Section 2
 Bill to me in Section 3
 Bill to me in Section 4
 Bill to me in Section 5
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 Bill to me in Section 40

8 Total Packages Total Weight

Total Packages: [Handwritten]
Total Weight: [Handwritten]



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ANALYTICAL REPORT

Job Number: 200-10396-2

SDG Number: PRR1220

Job Description: LPRSA - Phase I Removal Action

For:

ARCADIS U.S. Inc
2300 Eastlake Avenue, East
Suite 140
Seattle, WA 98102

Attention: Ms. Shannon Dunn



Approved for release.
Kirk F Young
Project Manager I
5/3/2012 2:58 PM

Kirk F Young
Project Manager I
kirk.young@testamericainc.com
05/03/2012

cc: Mr. Joe Houser
Mr. Don Reed
Mr. Ryan Shatt

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403
Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: LPRSA - Phase I Removal Action

Report Number: PRR1220 (200-10396-2)

Enclosed is the data set for the referenced project work. With the exceptions noted as flags or footnotes, standard analytical protocols were followed in performing the analytical work and the applied control limits were met.

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

All holding times were met and proper preservation noted for the methods of analysis, unless otherwise detailed in the individual sections below.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and further document with chromatographic profiles. An itemized listing of the manual integrations that were performed is provided at the end of this submittal, referencing the specific acquisition file names and the compounds for which manual integration was applied.

Included at the end of this submittal is an itemized listing of the standards that were used in performing the analytical work.

Receipt

The samples in this sample set were received on 04/18/2012. Documentation of the condition of the samples at the time of receipt and any exceptions to the laboratory's Sample Acceptance Policy is included in the Shipping and Receiving section of this submittal. The samples were received in two coolers. The temperature of the contents of each cooler was determined at the time of receipt. The temperatures were 5.0 °C and 0.8 °C.

D422 (Particle Size)

Samples in this sample set were analyzed for particle size distribution by the referenced method. The evaluation was performed by sieve only. The composition of the sample was not amenable to hydrometer determinations for the characterization of particle sizes less than 75 microns. This was coordinated with the project team. Replicate analyses were performed on sample PRR1SOLBF-02, and there was good correspondence in the results of those analyses.

SW846 Method 9045C (pH)

Samples in this sample set were analyzed for pH by the referenced method. This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. Replicate analyses were performed on sample PRR1SOLBF-02, and there was good correspondence in the results of those analyses.

SW846 Method 8151A (Chlorinated Herbicides)

Samples in this sample set were extracted for the analysis of chlorinated herbicides by the referenced method. A nominal 50 grams of sample was extracted, and the final extract volume was brought to 10.0 milliliters for analysis.

The sample extracts were analyzed without a dilution. DCAA (2,4-dichlorophenylacetic acid) was used as a surrogate in the performance of the work. There was an acceptable recovery of the surrogate control in each of the analyses associated with the sample set. Matrix spike and matrix spike duplicate analyses were performed on sample PRR1SOLBF-02. Those analyses were performed without a dilution, consistent with the analysis of the parent sample. There was an acceptable recovery of each target analyte in both the matrix spike and the matrix spike duplicate analysis, and there was an acceptable correlation of the results in the interanalysis comparison. A laboratory control sample was prepared and analyzed in association with the samples in the extraction set, and there was an acceptable recovery of each target analyte in that analysis. The analysis of the method blank associated with the analytical work was free of analyte contamination.

The initial calibration was established using five concentration levels. The relative standard deviation of the responses for each analyte in the initial calibration was below 20.0 percent. The initial calibration was verified with an analytical standard from a source different than was used for calibration. There was an acceptable performance of each analyte in the initial calibration verification as measured against a ± 20.0 percent tolerance. The response for each target analyte met the 15.0 percent difference criterion in each calibration check acquisition.

Peak height response was used for calibration and quantification. Positive instrument responses in the analysis of samples and quality controls were evaluated to the established method detection limit (MDL). In performing the analytical work, the laboratory did evaluate the results that were generated from each column in deriving a result for a particular compound, and has reported the higher of the two values. In those instances when the results from each of the two columns differed by more than 40 percent, the lower value is reported and qualified with a "p" qualifier.

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Herbicides (GC)		TAL BUR	SW846 8151A	
Extraction (Herbicides)		TAL BUR		SW846 8151A
pH		TAL BUR	SW846 9045C	
Percent Moisture		TAL BUR	EPA Moisture	
Grain Size		TAL BUR	ASTM D422	

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

ASTM = ASTM International

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: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Method	Analyst	Analyst ID
SW846 8151A	Malaspina, Richard R	RRM
SW846 9045C	Nelson, Andrea J	AJN
EPA Moisture	Nelson, Andrea J	AJN
ASTM D422	Peterson, Mark A	MAP

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-10396-1	PRR1SOLBF-01	Solid	04/17/2012 1300	04/18/2012 1020
200-10396-2	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MS	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MSD	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2DU	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-3	PRR1SOLBF-03	Solid	04/17/2012 1320	04/18/2012 1020
200-10396-4	PRR1SOLBF-04	Solid	04/17/2012 1330	04/18/2012 1020
200-10396-5	PRR1SOLBF-05	Solid	04/17/2012 1340	04/18/2012 1020
200-10396-6	PRR1SOLBF-06	Solid	04/17/2012 1350	04/18/2012 1020

SAMPLE RESULTS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	49.76 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 0643			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		38	U	5.7	38
2,4-DB		19	U	7.4	19
2,4,5-T		9.6	U	1.5	9.6
Silvex (2,4,5-TP)		3.8	U	0.45	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	64		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 200-37700

Instrument ID: 5005.i

Prep Method: 8151A

Prep Batch: 200-37144

Initial Weight/Volume: 49.76 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 04/27/2012 0643

Injection Volume: 1 uL

Prep Date: 04/19/2012 1011

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	63		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	50.13 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 0719			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		38	U	5.6	38
2,4-DB		19	U	7.3	19
2,4,5-T		9.5	U	1.5	9.5
Silvex (2,4,5-TP)		3.8	U	0.45	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	78		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 200-37700

Instrument ID: 5005.i

Prep Method: 8151A

Prep Batch: 200-37144

Initial Weight/Volume: 50.13 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 04/27/2012 0719

Injection Volume: 1 uL

Prep Date: 04/19/2012 1011

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	78		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	49.65 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 0908			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		39	U	5.7	39
2,4-DB		19	U	7.5	19
2,4,5-T		9.7	U	1.5	9.7
Silvex (2,4,5-TP)		3.9	U	0.46	3.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	61		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

% Moisture: 1.7

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	49.65 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 0908			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	61		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	50.53 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 0945			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		22	J	5.6	38
2,4-DB		19	U	7.3	19
2,4,5-T		13		1.5	9.5
Silvex (2,4,5-TP)		3.8	U	0.45	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	96		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method: 8151A

Analysis Batch: 200-37700

Instrument ID: 5005.i

Prep Method: 8151A

Prep Batch: 200-37144

Initial Weight/Volume: 50.53 g

Dilution: 1.0

Final Weight/Volume: 10000 uL

Analysis Date: 04/27/2012 0945

Injection Volume: 1 uL

Prep Date: 04/19/2012 1011

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	95		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method: 8151A Analysis Batch: 200-37700 Instrument ID: 5005.i
Prep Method: 8151A Prep Batch: 200-37144 Initial Weight/Volume: 50.17 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 04/27/2012 1022 Injection Volume: 1 uL
Prep Date: 04/19/2012 1011 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		38	U	5.6	38
2,4-DB		19	U	7.3	19
2,4,5-T		9.5	U	1.5	9.5
Silvex (2,4,5-TP)		3.8	U	0.45	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	103		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5
Client Matrix: Solid

% Moisture: 0.4

Date Sampled: 04/17/2012 1340
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	50.17 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 1022			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	99		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method: 8151A Analysis Batch: 200-37700 Instrument ID: 5005.i
Prep Method: 8151A Prep Batch: 200-37144 Initial Weight/Volume: 49.97 g
Dilution: 1.0 Final Weight/Volume: 10000 uL
Analysis Date: 04/27/2012 1059 Injection Volume: 1 uL
Prep Date: 04/19/2012 1011 Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2,4-D		38	U	5.6	38
2,4-DB		19	U	7.3	19
2,4,5-T		2.3	J	1.5	9.6
Silvex (2,4,5-TP)		3.8	U	0.45	3.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	84		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

% Moisture: 0.6

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

8151A Herbicides (GC)

Analysis Method:	8151A	Analysis Batch:	200-37700	Instrument ID:	5005.i
Prep Method:	8151A	Prep Batch:	200-37144	Initial Weight/Volume:	49.97 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	04/27/2012 1059			Injection Volume:	1 uL
Prep Date:	04/19/2012 1011			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	83		25 - 195

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.05	HF	SU	1.0	9045C
Analysis Batch: 200-37327		Analysis Date: 04/23/2012 1700		DryWt Corrected: N	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.45		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	
Percent Solids	99.5		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.21	HF	SU	1.0	9045C
Analysis Batch: 200-37327		Analysis Date: 04/23/2012 1700		DryWt Corrected: N	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.27		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	
Percent Solids	99.7		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.28	HF	SU	1.0	9045C
	Analysis Batch: 200-37327	Analysis Date: 04/23/2012 1700			DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.7		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-37307	Analysis Date: 04/23/2012 1416					DryWt Corrected: N
Percent Solids	98.3		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-37307	Analysis Date: 04/23/2012 1416					DryWt Corrected: N

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.24	HF	SU	1.0	9045C
Analysis Batch: 200-37327		Analysis Date: 04/23/2012 1700		DryWt Corrected: N	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.98		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	
Percent Solids	99.0		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.28	HF	SU	1.0	9045C
Analysis Batch: 200-37327		Analysis Date: 04/23/2012 1700		DryWt Corrected: N	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.43		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	
Percent Solids	99.6		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

General Chemistry

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

Analyte	Result	Qual	Units	Dil	Method
pH	9.35	HF	SU	1.0	9045C
Analysis Batch: 200-37327		Analysis Date: 04/23/2012 1700		DryWt Corrected: N	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.60		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	
Percent Solids	99.4		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-37307		Analysis Date: 04/23/2012 1416				DryWt Corrected: N	

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-1.txt
Dilution:	1.0			Initial Weight/Volume:	237.45 g
Analysis Date:	04/20/2012 1637			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		92.7			
Sieve Size #10 - Percent Finer		18.7			
Sieve Size #20 - Percent Finer		3.3			
Sieve Size #40 - Percent Finer		1.6			
Sieve Size #60 - Percent Finer		1.3			
Sieve Size #80 - Percent Finer		1.2			
Sieve Size #100 - Percent Finer		1.1			
Sieve Size #200 - Percent Finer		1			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.6			
Hydrometer Reading 5 - Percent Finer		0.6			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-1.txt
Dilution:	1.0			Initial Weight/Volume:	237.45 g
Analysis Date:	04/20/2012 1637			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		7.3			
Sand		91.7			
Coarse Sand		74.0			
Medium Sand		17.1			
Fine Sand		0.6			
Silt		0.4			
Clay		0.6			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-1.txt
Dilution:	1.0			Initial Weight/Volume:	237.45 g
Analysis Date:	04/20/2012 1637			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		36.8			
Hydrometer Reading 2 - Particle Size		23.3			
Hydrometer Reading 3 - Particle Size		13.5			
Hydrometer Reading 4 - Particle Size		9.9			
Hydrometer Reading 5 - Particle Size		6.9			
Hydrometer Reading 6 - Particle Size		3.4			
Hydrometer Reading 7 - Particle Size		1.4			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-2.txt
Dilution:	1.0			Initial Weight/Volume:	252.34 g
Analysis Date:	04/20/2012 1642			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		95.4			
Sieve Size #10 - Percent Finer		20.1			
Sieve Size #20 - Percent Finer		4.9			
Sieve Size #40 - Percent Finer		2.4			
Sieve Size #60 - Percent Finer		1.8			
Sieve Size #80 - Percent Finer		1.6			
Sieve Size #100 - Percent Finer		1.5			
Sieve Size #200 - Percent Finer		1.3			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.6			
Hydrometer Reading 5 - Percent Finer		0.5			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-2.txt
Dilution:	1.0			Initial Weight/Volume:	252.34 g
Analysis Date:	04/20/2012 1642			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		4.6			
Sand		94.1			
Coarse Sand		75.3			
Medium Sand		17.7			
Fine Sand		1.2			
Silt		0.7			
Clay		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-2.txt
Dilution:	1.0			Initial Weight/Volume:	252.34 g
Analysis Date:	04/20/2012 1642			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		37.0			
Hydrometer Reading 2 - Particle Size		23.4			
Hydrometer Reading 3 - Particle Size		13.5			
Hydrometer Reading 4 - Particle Size		9.7			
Hydrometer Reading 5 - Particle Size		6.6			
Hydrometer Reading 6 - Particle Size		3.3			
Hydrometer Reading 7 - Particle Size		1.4			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-3.txt
Dilution:	1.0			Initial Weight/Volume:	249.6 g
Analysis Date:	04/20/2012 1646			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		95.4			
Sieve Size #10 - Percent Finer		25.5			
Sieve Size #20 - Percent Finer		8.4			
Sieve Size #40 - Percent Finer		4.3			
Sieve Size #60 - Percent Finer		2.9			
Sieve Size #80 - Percent Finer		2.3			
Sieve Size #100 - Percent Finer		2.1			
Sieve Size #200 - Percent Finer		1.4			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.5			
Hydrometer Reading 5 - Percent Finer		0.5			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3
Client Matrix: Solid

Date Sampled: 04/17/2012 1320
Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-3.txt
Dilution:	1.0			Initial Weight/Volume:	249.6 g
Analysis Date:	04/20/2012 1646			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		4.6			
Sand		94.0			
Coarse Sand		69.9			
Medium Sand		21.2			
Fine Sand		2.9			
Silt		0.9			
Clay		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-3.txt
Dilution:	1.0			Initial Weight/Volume:	249.6 g
Analysis Date:	04/20/2012 1646			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		37.0			
Hydrometer Reading 2 - Particle Size		23.4			
Hydrometer Reading 3 - Particle Size		13.5			
Hydrometer Reading 4 - Particle Size		9.5			
Hydrometer Reading 5 - Particle Size		6.9			
Hydrometer Reading 6 - Particle Size		3.5			
Hydrometer Reading 7 - Particle Size		1.4			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-4.txt
Dilution:	1.0			Initial Weight/Volume:	253.69 g
Analysis Date:	04/20/2012 1651			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		92.8			
Sieve Size #10 - Percent Finer		16.9			
Sieve Size #20 - Percent Finer		4.2			
Sieve Size #40 - Percent Finer		2.3			
Sieve Size #60 - Percent Finer		2.0			
Sieve Size #80 - Percent Finer		1.9			
Sieve Size #100 - Percent Finer		1.8			
Sieve Size #200 - Percent Finer		1.6			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.5			
Hydrometer Reading 5 - Percent Finer		0.5			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-4.txt
Dilution:	1.0			Initial Weight/Volume:	253.69 g
Analysis Date:	04/20/2012 1651			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		7.2			
Sand		91.3			
Coarse Sand		75.9			
Medium Sand		14.6			
Fine Sand		0.7			
Silt		1.0			
Clay		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-4.txt
Dilution:	1.0			Initial Weight/Volume:	253.69 g
Analysis Date:	04/20/2012 1651			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		37.0			
Hydrometer Reading 2 - Particle Size		23.4			
Hydrometer Reading 3 - Particle Size		13.5			
Hydrometer Reading 4 - Particle Size		9.5			
Hydrometer Reading 5 - Particle Size		6.9			
Hydrometer Reading 6 - Particle Size		3.3			
Hydrometer Reading 7 - Particle Size		1.4			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-5.txt
Dilution:	1.0			Initial Weight/Volume:	225.13 g
Analysis Date:	04/20/2012 1653			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		90.9			
Sieve Size #10 - Percent Finer		14.0			
Sieve Size #20 - Percent Finer		2.9			
Sieve Size #40 - Percent Finer		1.3			
Sieve Size #60 - Percent Finer		1.1			
Sieve Size #80 - Percent Finer		1.0			
Sieve Size #100 - Percent Finer		1			
Sieve Size #200 - Percent Finer		0.9			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.6			
Hydrometer Reading 5 - Percent Finer		0.6			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-5.txt
Dilution:	1.0			Initial Weight/Volume:	225.13 g
Analysis Date:	04/20/2012 1653			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		9.1			
Sand		90.0			
Coarse Sand		76.9			
Medium Sand		12.7			
Fine Sand		0.4			
Silt		0.3			
Clay		0.6			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-5.txt
Dilution:	1.0			Initial Weight/Volume:	225.13 g
Analysis Date:	04/20/2012 1653			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		37.2			
Hydrometer Reading 2 - Particle Size		23.5			
Hydrometer Reading 3 - Particle Size		13.6			
Hydrometer Reading 4 - Particle Size		9.3			
Hydrometer Reading 5 - Particle Size		6.8			
Hydrometer Reading 6 - Particle Size		3.3			
Hydrometer Reading 7 - Particle Size		1.4			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6
Client Matrix: Solid

Date Sampled: 04/17/2012 1350
Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-6.txt
Dilution:	1.0			Initial Weight/Volume:	234.29 g
Analysis Date:	04/20/2012 1655			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (% Passing)	Qualifier	NONE	NONE
Sieve Size 3 inch - Percent Finer		100.0			
Sieve Size 2 inch - Percent Finer		100.0			
Sieve Size 1.5 inch - Percent Finer		100.0			
Sieve Size 1 inch - Percent Finer		100.0			
Sieve Size 0.75 inch - Percent Finer		100.0			
Sieve Size 0.375 inch - Percent Finer		100.0			
Sieve Size #4 - Percent Finer		93.8			
Sieve Size #10 - Percent Finer		16.5			
Sieve Size #20 - Percent Finer		3.9			
Sieve Size #40 - Percent Finer		2.1			
Sieve Size #60 - Percent Finer		1.8			
Sieve Size #80 - Percent Finer		1.7			
Sieve Size #100 - Percent Finer		1.7			
Sieve Size #200 - Percent Finer		1.4			
Hydrometer Reading 1 - Percent Finer		0.6			
Hydrometer Reading 2 - Percent Finer		0.6			
Hydrometer Reading 3 - Percent Finer		0.6			
Hydrometer Reading 4 - Percent Finer		0.6			
Hydrometer Reading 5 - Percent Finer		0.5			
Hydrometer Reading 6 - Percent Finer		0.5			
Hydrometer Reading 7 - Percent Finer		0.1			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-6.txt
Dilution:	1.0			Initial Weight/Volume:	234.29 g
Analysis Date:	04/20/2012 1655			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (%)	Qualifier	NONE	NONE
Gravel		6.2			
Sand		92.4			
Coarse Sand		77.3			
Medium Sand		14.4			
Fine Sand		0.7			
Silt		0.9			
Clay		0.5			

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

Date Received: 04/18/2012 1020

D422 Grain Size

Analysis Method:	D422	Analysis Batch:	200-37663	Instrument ID:	D422_import
	N/A	Prep Batch:	N/A	Lab File ID:	200-10396-F-6.txt
Dilution:	1.0			Initial Weight/Volume:	234.29 g
Analysis Date:	04/20/2012 1655			Final Weight/Volume:	
Prep Date:	N/A				

Analyte	DryWt Corrected: N	Result (um)	Qualifier	NONE	NONE
Hydrometer Reading 1 - Particle Size		37.2			
Hydrometer Reading 2 - Particle Size		23.5			
Hydrometer Reading 3 - Particle Size		13.6			
Hydrometer Reading 4 - Particle Size		9.6			
Hydrometer Reading 5 - Particle Size		6.7			
Hydrometer Reading 6 - Particle Size		3.3			
Hydrometer Reading 7 - Particle Size		1.4			

Particle Size of Soils by ASTM D422

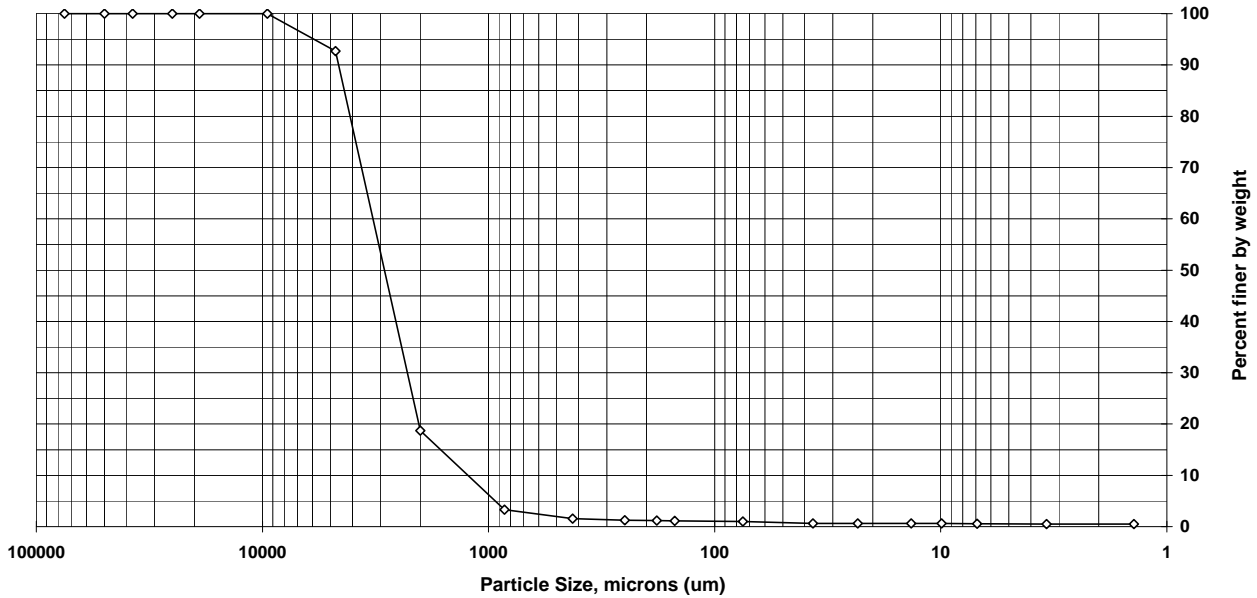
Sample ID: PRR1SOLBF-01
 Lab ID: 200-10396-F-1

Percent Solids: 99.3%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	92.7	7.3
#10	2000	18.7	74.0
#20	850	3.3	15.4
#40	425	1.6	1.8
#60	250	1.3	0.3
#80	180	1.2	0.1
#100	150	1.1	0.0
#200	75	1.0	0.1
Hyd1	36.8	0.6	0.4
Hyd2	23.3	0.6	0.0
Hyd3	13.5	0.6	0.0
Hyd4	9.9	0.6	0.0
Hyd5	6.9	0.6	0.0
Hyd6	3.4	0.5	0.1
Hyd7	1.4	0.5	0.0

Soil Classification	Percent of sample
Gravel	7.3
Sand	91.7
Coarse Sand	74.0
Medium Sand	17.1
Fine Sand	0.6
Silt	0.4
Clay	0.6

Particle Size of Soils by ASTM D422

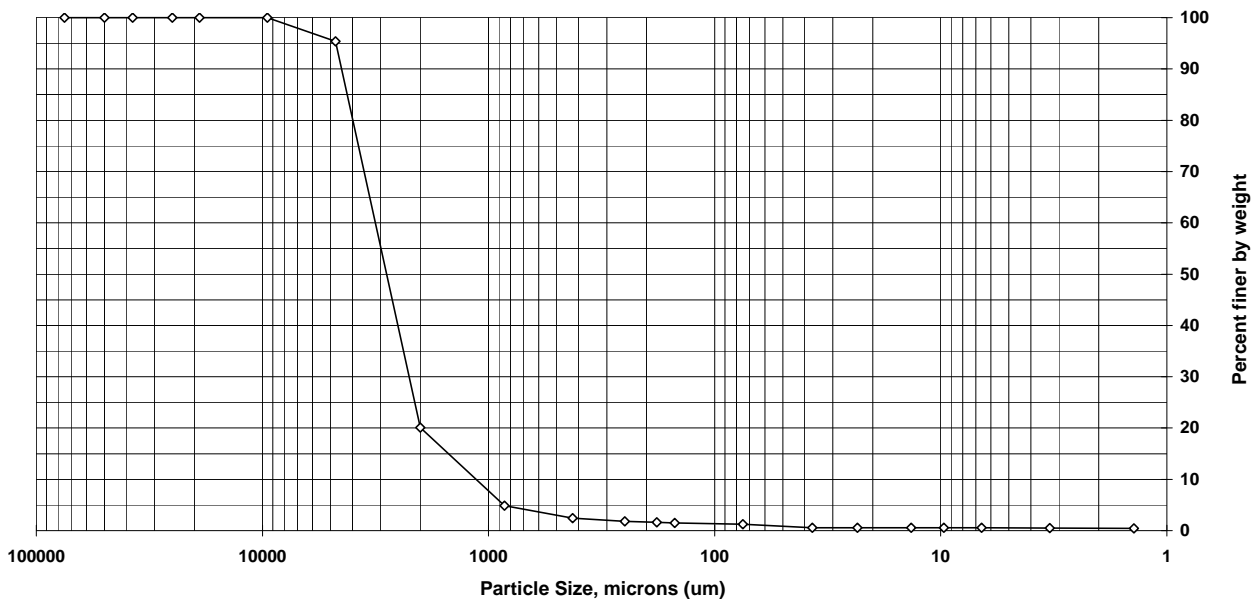
Sample ID: PRR1SOLBF-02
 Lab ID: 200-10396-F-2

Percent Solids: 99.4%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	95.4	4.6
#10	2000	20.1	75.3
#20	850	4.9	15.3
#40	425	2.4	2.4
#60	250	1.8	0.6
#80	180	1.6	0.2
#100	150	1.5	0.1
#200	75	1.3	0.3
Hyd1	37	0.6	0.7
Hyd2	23.4	0.6	0.0
Hyd3	13.5	0.6	0.0
Hyd4	9.7	0.6	0.0
Hyd5	6.6	0.5	0.0
Hyd6	3.3	0.5	0.0
Hyd7	1.4	0.5	0.1

Soil Classification	Percent of sample
Gravel	4.6
Sand	94.1
Coarse Sand	75.3
Medium Sand	17.7
Fine Sand	1.2
Silt	0.7
Clay	0.5

Particle Size of Soils by ASTM D422

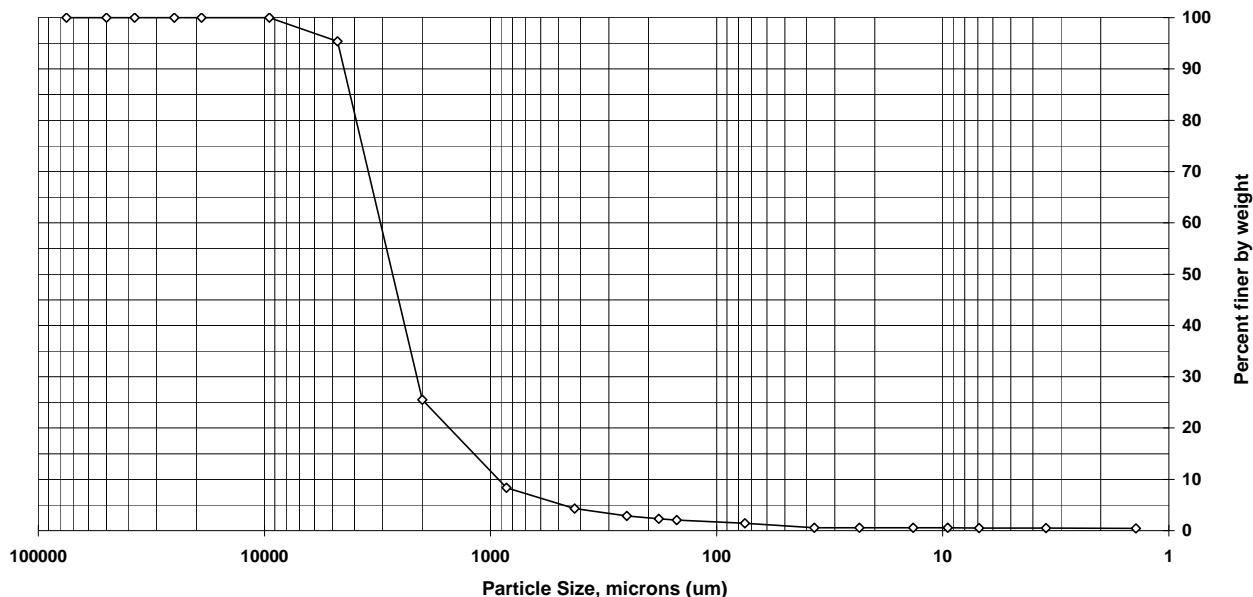
Sample ID: PRR1SOLBF-03
 Lab ID: 200-10396-F-3

Percent Solids: 99.1%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	95.4	4.6
#10	2000	25.5	69.9
#20	850	8.4	17.1
#40	425	4.3	4.1
#60	250	2.9	1.5
#80	180	2.3	0.5
#100	150	2.1	0.3
#200	75	1.4	0.6
Hyd1	37	0.6	0.9
Hyd2	23.4	0.6	0.0
Hyd3	13.5	0.6	0.0
Hyd4	9.5	0.5	0.0
Hyd5	6.9	0.5	0.0
Hyd6	3.5	0.5	0.0
Hyd7	1.4	0.5	0.0

Soil Classification	Percent of sample
Gravel	4.6
Sand	94.0
Coarse Sand	69.9
Medium Sand	21.2
Fine Sand	2.9
Silt	0.9
Clay	0.5

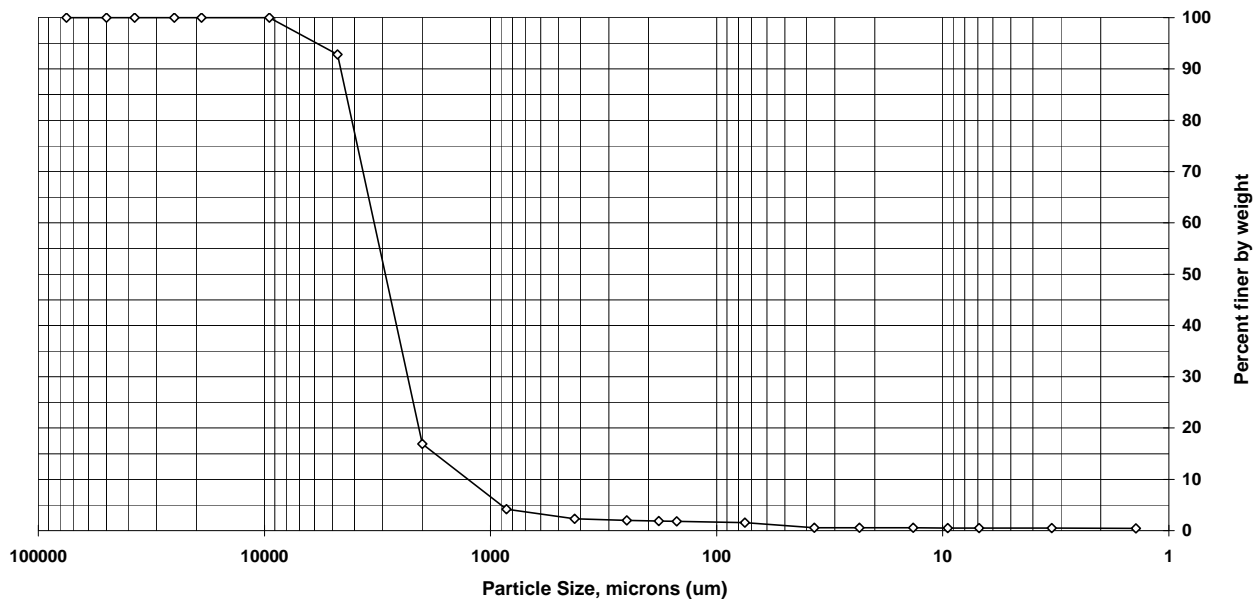
Particle Size of Soils by ASTM D422

Sample ID: PRR1SOLBF-04 Percent Solids: 99.6% Date Received: 4/18/2012
 Lab ID: 200-10396-F-4 Specific Gravity: 2.650 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na

Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	92.8	7.2
#10	2000	16.9	75.9
#20	850	4.2	12.7
#40	425	2.3	1.9
#60	250	2.0	0.3
#80	180	1.9	0.1
#100	150	1.8	0.1
#200	75	1.6	0.3
Hyd1	37	0.6	1.0
Hyd2	23.4	0.6	0.0
Hyd3	13.5	0.6	0.0
Hyd4	9.5	0.5	0.0
Hyd5	6.9	0.5	0.0
Hyd6	3.3	0.5	0.0
Hyd7	1.4	0.5	0.0

Soil Classification	Percent of sample
Gravel	7.2
Sand	91.3
Coarse Sand	75.9
Medium Sand	14.6
Fine Sand	0.7
Silt	1.0
Clay	0.5

Particle Size of Soils by ASTM D422

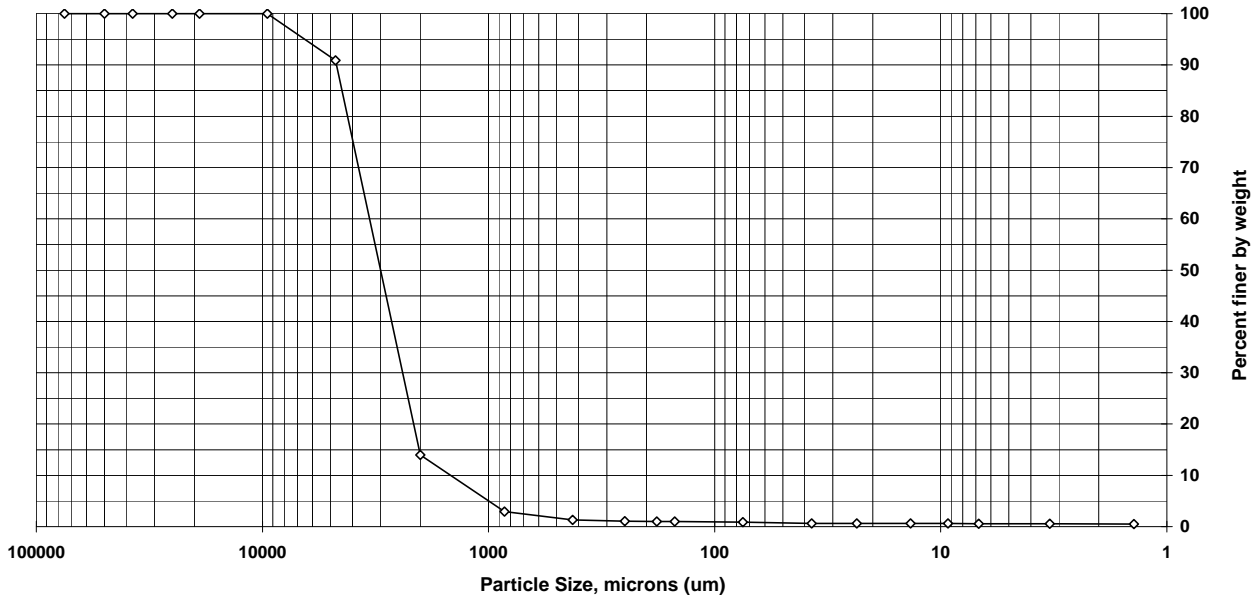
Sample ID: PRR1SOLBF-05
 Lab ID: 200-10396-F-5

Percent Solids: 99.5%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	90.9	9.1
#10	2000	14.0	76.9
#20	850	2.9	11.1
#40	425	1.3	1.6
#60	250	1.1	0.3
#80	180	1.0	0.1
#100	150	1.0	0.0
#200	75	0.9	0.1
Hyd1	37.2	0.6	0.3
Hyd2	23.5	0.6	0.0
Hyd3	13.6	0.6	0.0
Hyd4	9.3	0.6	0.0
Hyd5	6.8	0.6	0.0
Hyd6	3.3	0.5	0.0
Hyd7	1.4	0.5	0.0

Soil Classification	Percent of sample
Gravel	9.1
Sand	90.0
Coarse Sand	76.9
Medium Sand	12.7
Fine Sand	0.4
Silt	0.3
Clay	0.6

Particle Size of Soils by ASTM D422

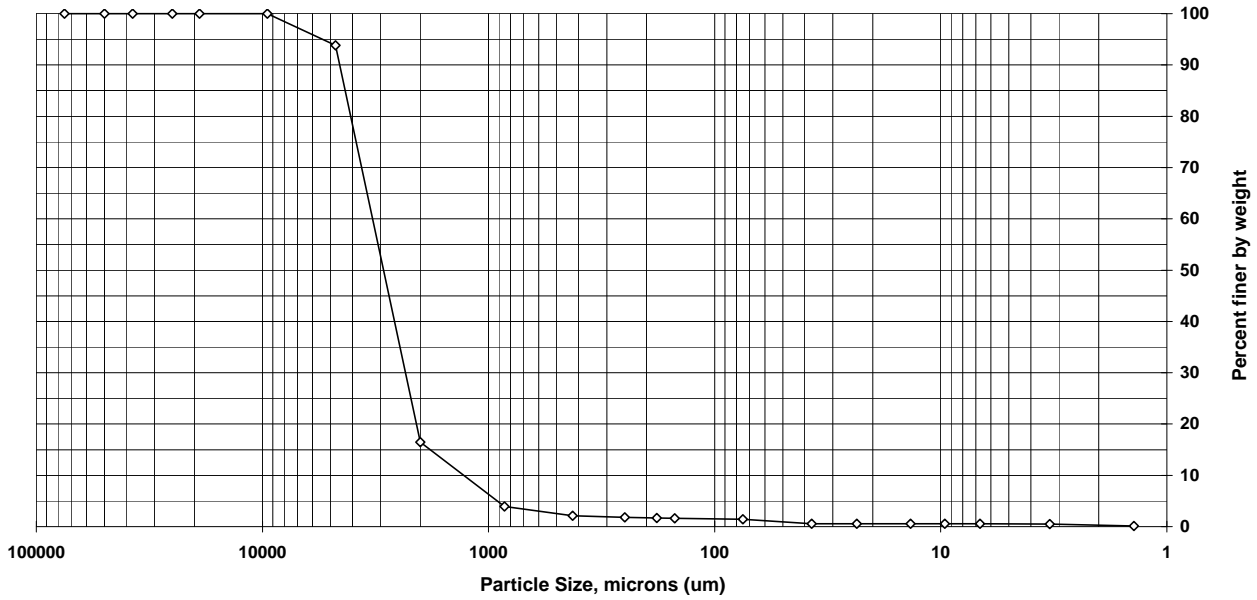
Sample ID: PRR1SOLBF-06
 Lab ID: 200-10396-F-6

Percent Solids: 99.5%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	93.8	6.2
#10	2000	16.5	77.3
#20	850	3.9	12.6
#40	425	2.1	1.8
#60	250	1.8	0.3
#80	180	1.7	0.1
#100	150	1.7	0.0
#200	75	1.4	0.2
Hyd1	37.2	0.6	0.8
Hyd2	23.5	0.6	0.0
Hyd3	13.6	0.6	0.0
Hyd4	9.6	0.6	0.0
Hyd5	6.7	0.5	0.0
Hyd6	3.3	0.5	0.0
Hyd7	1.4	0.1	0.4

Soil Classification	Percent of sample
Gravel	6.2
Sand	92.4
Coarse Sand	77.3
Medium Sand	14.4
Fine Sand	0.7
Silt	0.9
Clay	0.5

Particle Size of Soils by ASTM D422

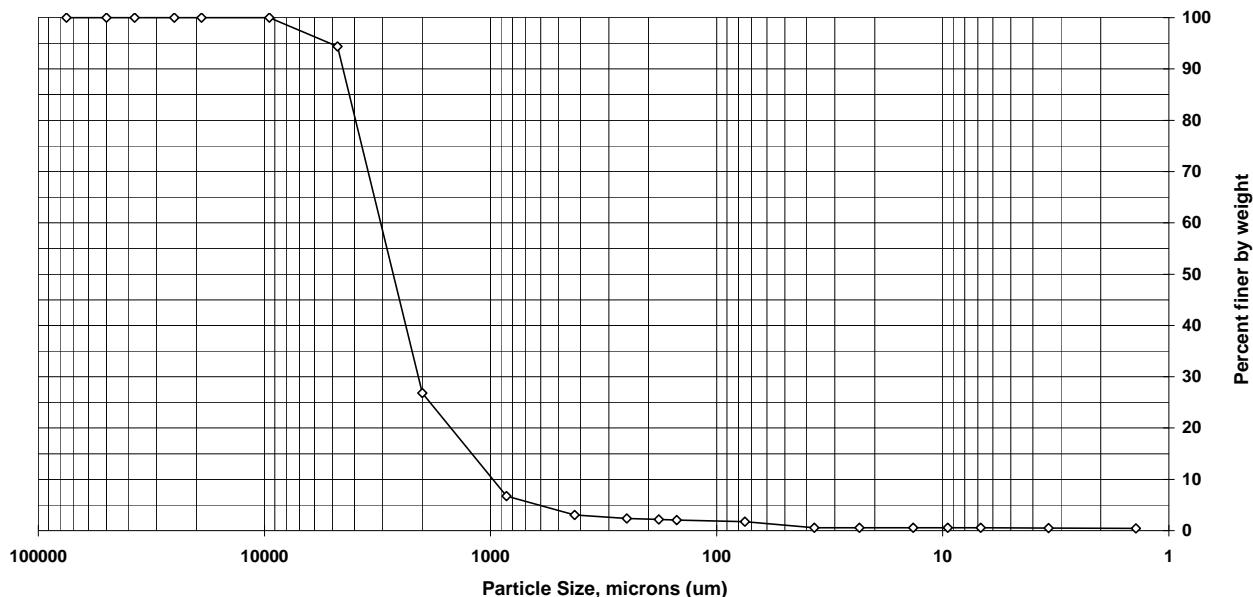
Sample ID: PRR1SOLBF-02
 Lab ID: 200-10396-C-2 DU

Percent Solids: 99.2%
 Specific Gravity: 2.650

Date Received: 4/18/2012
 Start Date: 4/20/2012
 End Date: 4/27/2012

Shape (> #10): angular

Non-soil material: na
 Hardness (> #10): hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	94.4	5.6
#10	2000	26.8	67.6
#20	850	6.8	20.0
#40	425	3.0	3.7
#60	250	2.4	0.7
#80	180	2.2	0.2
#100	150	2.1	0.1
#200	75	1.8	0.3
Hyd1	37	0.6	1.2
Hyd2	23.4	0.6	0.0
Hyd3	13.5	0.6	0.0
Hyd4	9.5	0.5	0.0
Hyd5	6.8	0.5	0.0
Hyd6	3.4	0.5	0.0
Hyd7	1.4	0.5	0.1

Soil Classification	Percent of sample
Gravel	5.6
Sand	92.7
Coarse Sand	67.6
Medium Sand	23.8
Fine Sand	1.3
Silt	1.2
Clay	0.5

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-01
 Lab Sample ID 200-10396-F-1

Date Received 4/18/2012
 Start Date 04/20/2012 16:37
 End Date 04/27/2012 8:52

Dry Weight Determination

Tin Weight 1.00 g
 Wet Sample + Tin 25.90 g
 Dry Sample + Tin 25.73 g
 % Moisture 0.68 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:39
 Date/Time out of oven 04/23/2012 21:44

Sample Weights

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample Weight (Wet)		237.45	237.45
Sample Weight (Oven Dried)			236

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Sample (g)
Sample >=#10			192
Sample <#10			44
% Passing #10			18.5

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	505.32	17.13 g	92.7	Gravel	
#10	2000	462.86	637.44	174.58 g	18.7	Sand	Coarse
#20	850	383.32	419.60	36.28 g	3.3	Sand	Medium
#40	425	353.43	357.60	4.17 g	1.6	Sand	Medium
#60	250	341.39	342.12	0.73 g	1.3	Sand	Fine
#80	180	330.18	330.39	0.21 g	1.2	Sand	Fine
#100	150	325.23	325.31	0.08 g	1.1	Sand	Fine
#200	75	312.19	312.51	0.32 g	1.0	Sand	Fine
				0.00 g	1.0		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 236

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040	22.0	36.8	0.624	Silt	
5	5	1.0040	22.0	23.3	0.624	Silt	
15	15	1.0040	21.5	13.5	0.595	Silt	
30	28	1.0040	21.5	9.9	0.595	Silt	
60	58	1.0040	21.0	6.9	0.567	Silt	
250	250	1.0040	20.0	3.4	0.51	Clay	
1440	1434	1.0040	19.5	1.4	0.482	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-02
 Lab Sample ID 200-10396-F-2

Date Received 4/18/2012
 Start Date 04/20/2012 16:42
 End Date 04/27/2012 8:50

Dry Weight Determination

Tin Weight 1.07 g
 Wet Sample + Tin 35.22 g
 Dry Sample + Tin 35.02 g
 % Moisture 0.59 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:43
 Date/Time out of oven 04/23/2012 21:44

Sample Weights

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample Weight (Wet)		252.34	252.34
Sample Weight (Oven Dried)			251

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample >=#10			201
Sample <#10			50
% Passing #10			19.8

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	499.80	11.61 g	95.4	Gravel	
#10	2000	462.86	651.97	189.11 g	20.1	Sand	Coarse
#20	850	383.32	421.61	38.29 g	4.9	Sand	Medium
#40	425	353.43	359.49	6.06 g	2.4	Sand	Medium
#60	250	341.39	342.95	1.56 g	1.8	Sand	Fine
#80	180	330.18	330.69	0.51 g	1.6	Sand	Fine
#100	150	325.23	325.47	0.24 g	1.5	Sand	Fine
#200	75	312.19	312.83	0.64 g	1.3	Sand	Fine
				0.00 g	1.3		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 251

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040	21.5	37	0.56	Silt	
5	5	1.0040	21.5	23.4	0.56	Silt	
15	15	1.0040	21.5	13.5	0.56	Silt	
30	29	1.0040	21.5	9.7	0.56	Silt	
60	63	1.0040	21.0	6.6	0.533	Silt	
250	250	1.0040	20.5	3.3	0.507	Clay	
1440	1434	1.0040	19.5	1.4	0.453	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-03
 Lab Sample ID 200-10396-F-3

Date Received 4/18/2012
 Start Date 04/20/2012 16:46
 End Date 04/27/2012 8:47

Dry Weight Determination

Tin Weight 1.03 g
 Wet Sample + Tin 29.31 g
 Dry Sample + Tin 29.06 g
 % Moisture 0.88 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:47
 Date/Time out of oven 04/23/2012 21:45

Sample Weights

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample Weight (Wet)		249.60	249.6
Sample Weight (Oven Dried)			247

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample >=#10			184
Sample <#10			63
% Passing #10			25.2

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	499.57	11.38 g	95.4	Gravel	
#10	2000	462.86	635.52	172.66 g	25.5	Sand	Coarse
#20	850	383.32	425.59	42.27 g	8.4	Sand	Medium
#40	425	353.43	363.48	10.05 g	4.3	Sand	Medium
#60	250	341.39	345.02	3.63 g	2.9	Sand	Fine
#80	180	330.18	331.49	1.31 g	2.3	Sand	Fine
#100	150	325.23	325.89	0.66 g	2.1	Sand	Fine
#200	75	312.19	313.72	1.53 g	1.4	Sand	Fine
				0.00 g	1.4		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 247

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040		21.5	37	0.569 Silt	
5	5	1.0040		21.5	23.4	0.569 Silt	
15	15	1.0040		21.5	13.5	0.569 Silt	
30	31	1.0040		21.0	9.5	0.542 Silt	
60	59	1.0040		20.5	6.9	0.515 Silt	
250	234	1.0040		20.0	3.5	0.488 Clay	
1440	1418	1.0040		19.5	1.4	0.461 Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-04
 Lab Sample ID 200-10396-F-4

Date Received 4/18/2012
 Start Date 04/20/2012 16:51
 End Date 04/27/2012 8:57

Dry Weight Determination

Tin Weight 1.03 g
 Wet Sample + Tin 33.08 g
 Dry Sample + Tin 32.96 g
 % Moisture 0.37 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:53
 Date/Time out of oven 04/23/2012 21:45

Sample Weights

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample Weight (Wet)		253.69	253.69
Sample Weight (Oven Dried)			253

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample >=#10			210
Sample <#10			43
% Passing #10			16.9

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	506.32	18.13 g	92.8	Gravel	
#10	2000	462.86	654.78	191.92 g	16.9	Sand	Coarse
#20	850	383.32	415.52	32.20 g	4.2	Sand	Medium
#40	425	353.43	358.19	4.76 g	2.3	Sand	Medium
#60	250	341.39	342.20	0.81 g	2.0	Sand	Fine
#80	180	330.18	330.46	0.28 g	1.9	Sand	Fine
#100	150	325.23	325.39	0.16 g	1.8	Sand	Fine
#200	75	312.19	312.82	0.63 g	1.6	Sand	Fine
				0.00 g	1.6		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 253

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040		21.5	37	0.555 Silt	
5	5	1.0040		21.5	23.4	0.555 Silt	
15	15	1.0040		21.5	13.5	0.555 Silt	
30	31	1.0040		21.0	9.5	0.529 Silt	
60	59	1.0040		20.5	6.9	0.503 Silt	
250	265	1.0040		20.0	3.3	0.476 Clay	
1440	1412	1.0040		19.5	1.4	0.45 Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-05
 Lab Sample ID 200-10396-F-5

Date Received 4/18/2012
 Start Date 04/20/2012 16:53
 End Date 04/27/2012 8:56

Dry Weight Determination

Tin Weight 1.00 g
 Wet Sample + Tin 31.76 g
 Dry Sample + Tin 31.62 g
 % Moisture 0.46 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:55
 Date/Time out of oven 04/23/2012 21:45

Sample Weights

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample Weight (Wet)		225.13	225.13
Sample Weight (Oven Dried)			224

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample >=#10			193
Sample <#10			31
% Passing #10			13.8

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	508.61	20.42 g	90.9	Gravel	
#10	2000	462.86	635.11	172.25 g	14.0	Sand	Coarse
#20	850	383.32	408.13	24.81 g	2.9	Sand	Medium
#40	425	353.43	356.98	3.55 g	1.3	Sand	Medium
#60	250	341.39	341.95	0.56 g	1.1	Sand	Fine
#80	180	330.18	330.33	0.15 g	1.0	Sand	Fine
#100	150	325.23	325.30	0.07 g	1.0	Sand	Fine
#200	75	312.19	312.38	0.19 g	0.9	Sand	Fine
				0.00 g	0.9		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 224

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040	21.0	37.2	0.597	Silt	
5	5	1.0040	21.0	23.5	0.597	Silt	
15	15	1.0040	21.0	13.6	0.597	Silt	
30	32	1.0040	21.0	9.3	0.597	Silt	
60	60	1.0040	20.5	6.8	0.568	Silt	
250	259	1.0040	20.0	3.3	0.538	Clay	
1440	1406	1.0040	19.5	1.4	0.508	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-06
 Lab Sample ID 200-10396-F-6

Date Received 4/18/2012
 Start Date 04/20/2012 16:55
 End Date 04/27/2012 8:49

Dry Weight Determination

Tin Weight 1.01 g
 Wet Sample + Tin 29.13 g
 Dry Sample + Tin 29.00 g
 % Moisture 0.46 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:57
 Date/Time out of oven 04/23/2012 21:46

Sample Weights

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample Weight (Wet)		234.29	234.29
Sample Weight (Oven Dried)			233

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Samp (g)	Samp (g)
Sample >=#10			195
Sample <#10			38
% Passing #10			16.2

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	502.61	14.42 g	93.8	Gravel	
#10	2000	462.86	643.02	180.16 g	16.5	Sand	Coarse
#20	850	383.32	412.68	29.36 g	3.9	Sand	Medium
#40	425	353.43	357.62	4.19 g	2.1	Sand	Medium
#60	250	341.39	342.08	0.69 g	1.8	Sand	Fine
#80	180	330.18	330.42	0.24 g	1.7	Sand	Fine
#100	150	325.23	325.35	0.12 g	1.7	Sand	Fine
#200	75	312.19	312.73	0.54 g	1.4	Sand	Fine
				0.00 g	1.4		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 233

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040	21.0	37.2	0.574	Silt	
5	5	1.0040	21.0	23.5	0.574	Silt	
15	15	1.0040	21.0	13.6	0.574	Silt	
30	30	1.0040	21.0	9.6	0.574	Silt	
60	63	1.0040	20.5	6.7	0.546	Silt	
250	253	1.0040	20.0	3.3	0.517	Clay	
1440	1400	1.0035	19.5	1.4	0.144	Clay	

TestAmerica Burlington

Sediment Grain Size - D422

Client
 Client Sample ID PRR1SOLBF-02
 Lab Sample ID 200-10396-C-2 DU

Date Received 4/18/2012
 Start Date 04/20/2012 16:44
 End Date 04/27/2012 8:54

Dry Weight Determination

Tin Weight 1.04 g
 Wet Sample + Tin 29.38 g
 Dry Sample + Tin 29.16 g
 % Moisture 0.78 %

Non-soil material: na
 Shape (> #10): angular
 Hardness (> #10): hard

Date/Time in oven 04/20/2012 16:45
 Date/Time out of oven 04/23/2012 21:44

Sample Weights

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample Weight (Wet)		254.00	254
Sample Weight (Oven Dried)			252

Hydrometer Data

Serial Number 741402
 Calib. Date (mm/dd/yyyy) 12/21/2010
 Low Temp (C) 17.0
 Reading at Low Temp 1.0035
 High Temp (C) 23.0
 Reading at High Temp 1.0030
 Hydrometer Cal Slope -8.33333E-05
 Hydrometer Cal Intercept 1.004916667
 Default Soil Gravity 2.6500

Sample Split (oven dried)

	Tare (g)	Pan+Sample (g)	Samp (g)
Sample >=#10			184
Sample <#10			68
% Passing #10			26.8

Gravel/Sand Fraction (Sieves)

Sample Fraction	Size (um)	Pan Tare (g)	Pan+Sample (g)	Sample	% Finer	Classification	Sub Class
3 inch	75000			0.00 g	100.0	Gravel	
2 inch	50000			0.00 g	100.0	Gravel	
1.5 inch	37500			0.00 g	100.0	Gravel	
1 inch	25000			0.00 g	100.0	Gravel	
3/4 inch	19000			0.00 g	100.0	Gravel	
3/8 inch	9500			0.00 g	100.0	Gravel	
#4	4750	488.19	502.22	14.03 g	94.4	Gravel	
#10	2000	462.86	633.11	170.25 g	26.8	Sand	Coarse
#20	850	383.32	433.81	50.49 g	6.8	Sand	Medium
#40	425	353.43	362.80	9.37 g	3.0	Sand	Medium
#60	250	341.39	343.09	1.70 g	2.4	Sand	Fine
#80	180	330.18	330.67	0.49 g	2.2	Sand	Fine
#100	150	325.23	325.48	0.25 g	2.1	Sand	Fine
#200	75	312.19	313.02	0.83 g	1.8	Sand	Fine
				0.00 g	1.8		

Adjusted Hydrometer Sample Mass

Hydrometer Sample Mass (g) 252

Silt/Clay Fraction (Hydrometer Test)

Hydrometer Test Time (min)	Actual	Spec. Gravity	Temp C	Particle Size		Classification	Sub Class
				(Micron)	% Finer		
2	2	1.0040	21.5	37	0.558	Silt	
5	5	1.0040	21.5	23.4	0.558	Silt	
15	15	1.0040	21.5	13.5	0.558	Silt	
30	31	1.0040	21.0	9.5	0.531	Silt	
60	60	1.0040	21.0	6.8	0.531	Silt	
250	240	1.0040	20.5	3.4	0.505	Clay	
1440	1424	1.0040	19.5	1.4	0.451	Clay	

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Lab Section	Qualifier	Description
GC Semi VOA	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.
General Chemistry	HF	Field parameter with a holding time of 15 minutes

QUALITY CONTROL RESULTS

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Prep Batch: 200-37144					
LCS 200-37144/2-A	Lab Control Sample	T	Solid	8151A	
MB 200-37144/1-A	Method Blank	T	Solid	8151A	
200-10396-1	PRR1SOLBF-01	T	Solid	8151A	
200-10396-2	PRR1SOLBF-02	T	Solid	8151A	
200-10396-2MS	Matrix Spike	T	Solid	8151A	
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	8151A	
200-10396-3	PRR1SOLBF-03	T	Solid	8151A	
200-10396-4	PRR1SOLBF-04	T	Solid	8151A	
200-10396-5	PRR1SOLBF-05	T	Solid	8151A	
200-10396-6	PRR1SOLBF-06	T	Solid	8151A	
Analysis Batch:200-37700					
LCS 200-37144/2-A	Lab Control Sample	T	Solid	8151A	200-37144
MB 200-37144/1-A	Method Blank	T	Solid	8151A	200-37144
200-10396-1	PRR1SOLBF-01	T	Solid	8151A	200-37144
200-10396-2	PRR1SOLBF-02	T	Solid	8151A	200-37144
200-10396-2MS	Matrix Spike	T	Solid	8151A	200-37144
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	8151A	200-37144
200-10396-3	PRR1SOLBF-03	T	Solid	8151A	200-37144
200-10396-4	PRR1SOLBF-04	T	Solid	8151A	200-37144
200-10396-5	PRR1SOLBF-05	T	Solid	8151A	200-37144
200-10396-6	PRR1SOLBF-06	T	Solid	8151A	200-37144

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:200-37307					
200-10396-1	PRR1SOLBF-01	T	Solid	Moisture	
200-10396-2	PRR1SOLBF-02	T	Solid	Moisture	
200-10396-2DU	Duplicate	T	Solid	Moisture	
200-10396-3	PRR1SOLBF-03	T	Solid	Moisture	
200-10396-4	PRR1SOLBF-04	T	Solid	Moisture	
200-10396-5	PRR1SOLBF-05	T	Solid	Moisture	
200-10396-6	PRR1SOLBF-06	T	Solid	Moisture	
Analysis Batch:200-37327					
200-10396-1	PRR1SOLBF-01	T	Solid	9045C	
200-10396-2	PRR1SOLBF-02	T	Solid	9045C	
200-10396-2DU	Duplicate	T	Solid	9045C	
200-10396-3	PRR1SOLBF-03	T	Solid	9045C	
200-10396-4	PRR1SOLBF-04	T	Solid	9045C	
200-10396-5	PRR1SOLBF-05	T	Solid	9045C	
200-10396-6	PRR1SOLBF-06	T	Solid	9045C	
Report Basis					
T = Total					
Geotechnical					
Analysis Batch:200-37663					
200-10396-1	PRR1SOLBF-01	T	Solid	D422	
200-10396-2	PRR1SOLBF-02	T	Solid	D422	
200-10396-2DU	Duplicate	T	Solid	D422	
200-10396-3	PRR1SOLBF-03	T	Solid	D422	
200-10396-4	PRR1SOLBF-04	T	Solid	D422	
200-10396-5	PRR1SOLBF-05	T	Solid	D422	
200-10396-6	PRR1SOLBF-06	T	Solid	D422	
Report Basis					
T = Total					

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

Sdg Number: PRR1220

Surrogate Recovery Report

8151A Herbicides (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
200-10396-1	PRR1SOLBF-01	63	64
200-10396-2	PRR1SOLBF-02	78	78
200-10396-3	PRR1SOLBF-03	61	61
200-10396-4	PRR1SOLBF-04	95	96
200-10396-5	PRR1SOLBF-05	99	103
200-10396-6	PRR1SOLBF-06	83	84
MB 200-37144/1-A		73	71
LCS 200-37144/2-A		76	78
200-10396-2 MS	PRR1SOLBF-02 MS	86	88
200-10396-2 MSD	PRR1SOLBF-02 MSD	91	96

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	25-195

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Method Blank - Batch: 200-37144

**Method: 8151A
Preparation: 8151A**

Lab Sample ID: MB 200-37144/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/27/2012 0531
Prep Date: 04/19/2012 1011
Leach Date: N/A

Analysis Batch: 200-37700
Prep Batch: 200-37144
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 5005.i
Lab File ID: 26ap121624-r071.d
Initial Weight/Volume: 49.64 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	38	U	5.6	38
2,4-DB	19	U	7.4	19
2,4,5-T	9.6	U	1.5	9.6
Silvex (2,4,5-TP)	3.8	U	0.45	3.8

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	73	25 - 195

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	71	25 - 195

Lab Control Sample - Batch: 200-37144

**Method: 8151A
Preparation: 8151A**

Lab Sample ID: LCS 200-37144/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/27/2012 0607
Prep Date: 04/19/2012 1011
Leach Date: N/A

Analysis Batch: 200-37700
Prep Batch: 200-37144
Leach Batch: N/A
Units: ug/Kg

Instrument ID: 5005.i
Lab File ID: 26ap121624-r081.d
Initial Weight/Volume: 50.26 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	159	115	72	65 - 130	
2,4-DB	80.0	70.6	88	35 - 170	
2,4,5-T	39.8	33.6	84	60 - 140	
Silvex (2,4,5-TP)	15.9	12.8	80	65 - 130	

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	78	25 - 195

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	76	25 - 195

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-37144**

**Method: 8151A
Preparation: 8151A**

MS Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/27/2012 0832
Prep Date: 04/19/2012 1011
Leach Date: N/A

Analysis Batch: 200-37700
Prep Batch: 200-37144
Leach Batch: N/A

Instrument ID: 5005.i
Lab File ID: 26ap121624-r121.d
Initial Weight/Volume: 50.46 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/27/2012 0755
Prep Date: 04/19/2012 1011
Leach Date: N/A

Analysis Batch: 200-37700
Prep Batch: 200-37144
Leach Batch: N/A

Instrument ID: 5005.i
Lab File ID: 26ap121624-r111.d
Initial Weight/Volume: 50.37 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
2,4-D	88	93	65 - 130	6	30		
2,4-DB	112	113	35 - 170	1	30		
2,4,5-T	106	112	60 - 140	7	30		
Silvex (2,4,5-TP)	95	94	65 - 130	1	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
2,4-Dichlorophenylacetic acid		88	96			25 - 195	
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
2,4-Dichlorophenylacetic acid		86	91			25 - 195	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Duplicate - Batch: 200-37327

Method: 9045C
Preparation: N/A

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37327	Instrument ID:	WCpHmeter
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	04/23/2012 1700	Units:	SU	Final Weight/Volume:	40 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	9.21	9.260	0.5	5	HF

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Duplicate - Batch: 200-37307

Method: Moisture
Preparation: N/A

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37307	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/23/2012 1416	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	0.27	0.31	14	20	
Percent Solids	99.7	99.7	0.04	20	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Duplicate - Batch: 200-37663

Method: D422
Preparation: N/A

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37663	Instrument ID:	D422_import
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	200-10396-C-2 DU.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	254 g
Analysis Date:	04/20/2012 1644	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Gravel	4.6	5.6			
Sand	94.1	92.7			
Coarse Sand	75.3	67.6			
Medium Sand	17.7	23.8			
Fine Sand	1.2	1.3			
Silt	0.7	1.2			
Clay	0.5	0.5			

Duplicate - Batch: 200-37663

Method: D422
Preparation: N/A

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37663	Instrument ID:	D422_import
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	200-10396-C-2 DU.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	254 g
Analysis Date:	04/20/2012 1644	Units:	% Passing	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sieve Size 3 inch - Percent Finer	100.0	100.0			
Sieve Size 2 inch - Percent Finer	100.0	100.0			
Sieve Size 1.5 inch - Percent Finer	100.0	100.0			
Sieve Size 1 inch - Percent Finer	100.0	100.0			
Sieve Size 0.75 inch - Percent Finer	100.0	100.0			
Sieve Size 0.375 inch - Percent Finer	100.0	100.0			
Sieve Size #4 - Percent Finer	95.4	94.4			
Sieve Size #10 - Percent Finer	20.1	26.8			
Sieve Size #20 - Percent Finer	4.9	6.8			
Sieve Size #40 - Percent Finer	2.4	3.0			
Sieve Size #60 - Percent Finer	1.8	2.4			
Sieve Size #80 - Percent Finer	1.6	2.2			
Sieve Size #100 - Percent Finer	1.5	2.1			
Sieve Size #200 - Percent Finer	1.3	1.8			
Hydrometer Reading 1 - Percent Finer	0.6	0.6			
Hydrometer Reading 2 - Percent Finer	0.6	0.6			
Hydrometer Reading 3 - Percent Finer	0.6	0.6			
Hydrometer Reading 4 - Percent Finer	0.6	0.5			
Hydrometer Reading 5 - Percent Finer	0.5	0.5			
Hydrometer Reading 6 - Percent Finer	0.5	0.5			
Hydrometer Reading 7 - Percent Finer	0.5	0.5			

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2
Sdg Number: PRR1220

Duplicate - Batch: 200-37663

**Method: D422
Preparation: N/A**

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37663	Instrument ID:	D422_import
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	200-10396-C-2 DU.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	254 g
Analysis Date:	04/20/2012 1644	Units:	% Passing	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
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Duplicate - Batch: 200-37663

**Method: D422
Preparation: N/A**

Lab Sample ID:	200-10396-2	Analysis Batch:	200-37663	Instrument ID:	D422_import
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	200-10396-C-2 DU.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	254 g
Analysis Date:	04/20/2012 1644	Units:	um	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
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Hydrometer Reading 1 - Particle Size	37.0	37.0			
Hydrometer Reading 2 - Particle Size	23.4	23.4			
Hydrometer Reading 3 - Particle Size	13.5	13.5			
Hydrometer Reading 4 - Particle Size	9.7	9.5			
Hydrometer Reading 5 - Particle Size	6.6	6.8			
Hydrometer Reading 6 - Particle Size	3.3	3.4			
Hydrometer Reading 7 - Particle Size	1.4	1.4			

**CHAIN OF CUSTODY & LABORATORY
 ANALYSIS REQUEST FORM**

Lab Work Order #

PROJECT NAME		Requested Analyses													SDG NUMBER	COC Number								
Tierra Phase I Removal															PRR1220									
SAMPLE ID	DATE	TIME	MATRIX	Composite/Grab	# Containers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Remarks	
PRR1SOLBF-01	4/17/2012	13:00	soil	Composite	6	X	X	X	X	X	X	X	X	X	X									
PRR1SOLBF-02	4/17/2012	13:10	soil	Composite	18	X	X	X	X	X	X	X	X	X	X									MS and MSD
PRR1SOLBF-03	4/17/2012	13:20	soil	Composite	6	X	X	X	X	X	X	X	X	X	X									
PRR1SOLBF-04	4/17/2012	13:30	soil	Composite	6	X	X	X	X	X	X	X	X	X	X									
PRR1SOLBF-05	4/17/2012	13:40	soil	Composite	6	X	X	X	X	X	X	X	X	X	X									
PRR1SOLBF-06	4/17/2012	13:50	soil	Composite	6	X	X	X	X	X	X	X	X	X	X									
TB04172012	4/17/2012		water		3	X																		
<div style="display: flex; justify-content: space-between;"> <div>Requested Analyses</div> <div> <input type="checkbox"/> Special QA/QC Instructions </div> </div>																								
Special Instructions/Comments: Refer to RAWP QAPP Worksheet 15-1 for Backfill Samples																								
Laboratory Information and Receipt Lab Name: TestAmerica -Burlington, VT Shipping Tracking # Specify Turnaround Requirements: standard TAT <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Cooler packed with ice <input checked="" type="checkbox"/> Cooler custody seal intact </div> <div> Sample Receipt: Condition/Cooler Temp: 5.0°C </div> </div>																								
Relinquished by:		Karin Gandhi		DATE		04/17/12		TIME		1830		Received by:		TAS		DATE		Relinquished by:		DATE		Received by:		
Relinquished by:		Karin Gandhi		DATE		04/18/12		TIME				Received by:		TAS		DATE		Relinquished by:		DATE		Received by:		
Relinquished by:				DATE				TIME				Received by:				DATE		Relinquished by:		DATE		Received by:		

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-10396-2

SDG Number: PRR1220

Login Number: 10396

List Source: TestAmerica Burlington

List Number: 1

Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	416687,688,685,686
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,0.8°C IR GUN ID 154/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

1 From: Date 09/14/10, Sender's FedEx Account Number 304975327, Sender's Name Kevin G. ... Phone 714 352 1033, Company ARADIS, Address 11700 ... City Newark, State NJ, ZIP 07105

2 Your Internal Billing Reference: 11700766 0002, 70004

3 To: Recipient's Name K-Y Young, Phone 402 601 1150, Company Fed America, Address 11700 ... City Newark, State NJ, ZIP 07105



8769 0286 0435

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully. Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express freight US Airbill

NEW Business Day: 06 FedEx First Overnight, 01 FedEx Priority Overnight, 05 FedEx Standard Overnight. 20/3 Business Days: 49 NEW FedEx 2Day A.M., 03 FedEx 2Day, 20 FedEx Express Saver

5 Packaging *Declared value limit \$500. 06 FedEx Envelope, 02 FedEx Pak, 03 FedEx Box, 04 FedEx Tube, 01 Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY. No Signature Required, Direct Signature, Indirect Signature. Does this shipment contain dangerous goods? No/Yes, Dry Ice, Cargo Aircraft Only

7 Payment Bill to:

1 Sender, 2 Recipient, 3 Third Party, 4 Credit Card, 5 Cash/Check. Total Packages, Total Weight, Credit Card Acct. 612

1 From: Date 09/14/10, Sender's FedEx Account Number 304975327, Sender's Name Kevin G. ... Phone 714 352 1033, Company ARADIS, Address 11700 ... City Newark, State NJ, ZIP 07105

2 Your Internal Billing Reference: 11700766 0002, 70004

3 To: Recipient's Name K-Y Young, Phone 402 601 1150, Company Fed America, Address 11700 ... City Newark, State NJ, ZIP 07105



8769 0286 0446

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully. Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express freight US Airbill

NEW Business Day: 06 FedEx First Overnight, 01 FedEx Priority Overnight, 05 FedEx Standard Overnight. 20/3 Business Days: 49 NEW FedEx 2Day A.M., 03 FedEx 2Day, 20 FedEx Express Saver

5 Packaging *Declared value limit \$500. 06 FedEx Envelope, 02 FedEx Pak, 03 FedEx Box, 04 FedEx Tube, 01 Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY. No Signature Required, Direct Signature, Indirect Signature. Does this shipment contain dangerous goods? No/Yes, Dry Ice, Cargo Aircraft Only

7 Payment Bill to:

1 Sender, 2 Recipient, 3 Third Party, 4 Credit Card, 5 Cash/Check. Total Packages, Total Weight, Credit Card Acct. 612

ANALYTICAL REPORT

Job Number: 200-10396-3

SDG Number: PRR1220

Job Description: LPRSA - Phase I Removal Action

For:

ARCADIS U.S. Inc
2300 Eastlake Avenue, East
Suite 140
Seattle, WA 98102

Attention: Ms. Shannon Dunn



Approved for release.
Kirk F Young
Project Manager I
5/14/2012 4:49 PM

Kirk F Young
Project Manager I
kirk.young@testamericainc.com
05/14/2012

cc: Mr. Joe Houser
Mr. Don Reed
Mr. Ryan Shatt

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403
Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: LPRSA - Phase I Removal Action

Report Number: PRR1220 (200-10396-3)

Enclosed is the data set for the referenced project work. With the exceptions noted as flags or footnotes, standard analytical protocols were followed in performing the analytical work and the applied control limits were met.

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

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and further document with chromatographic profiles. An itemized listing of the manual integrations that were performed is provided at the end of this submittal, referencing the specific acquisition file names and the compounds for which manual integration was applied.

Included at the end of this submittal is an itemized listing of the standards that were used in performing the analytical work.

Receipt

The samples in this sample set were received on 04/18/2012. Documentation of the condition of the samples at the time of receipt and any exceptions to the laboratory's Sample Acceptance Policy is included in the Shipping Documentation section of this submittal. The samples were received in two coolers. The temperature of the contents of each cooler was determined at the time of receipt. The temperatures were 5.0 °C and 0.8 °C.

SOM01 .2 Semivolatile Organics (SIM)

Based on the direction that was received by the project team, the laboratory did provide for the extraction and analysis of the samples beyond the prescribed holding time. The samples were collected on April 17th and were received on April 18th. The samples were extracted on May 7th.

The samples in this sample set were extracted using the ultrasonic extraction procedure. The required gel permeation chromatography clean-up was applied to the preparation of the extracts.

The laboratory did execute the analytical work as a modification to the cited method. That modification provided for the inclusion of hexachlorobenzene as a target analyte.

The sample extracts were analyzed without a dilution. There was an acceptable internal standard performance in each of the analyses associated with the sample set, and there was an acceptable recovery of each deuterated monitoring compound (DMC) in each analysis. Matrix spike and matrix spike duplicate analyses were performed on sample PRR1SOLBF-02. Those analyses were performed without a dilution, consistent with the analysis of the parent sample. The matrix spike analysis did yield a low recovery of pentachlorophenol (10 percent), and the results for pentachlorophenol did yield a high relative percent difference in the interanalysis comparison. The analysis of the method blank associated with the analytical work was free of analyte contamination..

With the exception of that for pentachlorophenol, the responses for each of the target analytes met the relative standard deviation criterion in the initial calibration. The relative standard deviation of the responses for pentachlorophenol was 21.7 percent. Although above the 20.0 percent criterion established for that compound, the initial calibration did meet the technical acceptance criteria for a compliant initial calibration. The response for each target analyte met the percent difference criterion in the opening/continuing calibration check acquisition. The response for each target analyte met the 50.0 percent difference criterion in the closing calibration check acquisition.

The following is a table of the chromatographic columns that were used in the performance of the work:

Manufacturer	Restek
Column Type	Rxi-5ms
Length	30m
Inner Dia.	0.25mm
Film Thickness	0.25um

As defined by its performance in the method detection limit studies that were completed by the laboratory, specific to the method of analysis, the performance of the alternate column was documented as being comparable to those specified in the method. This assessment is based on the ability of the alternate column to meet the specified technical acceptance criteria.

Consistent with the method, the laboratory did evaluate instrument response below the established reporting limit, and has reported spectrally supported responses below the reporting limit with a "J" qualifier.

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Semivolatiles by SIM	TAL BUR	SOM01.2	SOM01.2/SV SIM
Extraction Solid/Sediment Samples	TAL BUR		SOM01.2 SONC
Gel-Permeation Clean up	TAL BUR		SOM01.2 SOM01.2/GPC

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

SOM01.2 = U.S. Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Method	Analyst	Analyst ID
SOM01.2 SOM01.2/SV SIM	White, Matthew T	MTW

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-10396-1	PRR1SOLBF-01	Solid	04/17/2012 1300	04/18/2012 1020
200-10396-2	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MS	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-2MSD	PRR1SOLBF-02	Solid	04/17/2012 1310	04/18/2012 1020
200-10396-3	PRR1SOLBF-03	Solid	04/17/2012 1320	04/18/2012 1020
200-10396-4	PRR1SOLBF-04	Solid	04/17/2012 1330	04/18/2012 1020
200-10396-5	PRR1SOLBF-05	Solid	04/17/2012 1340	04/18/2012 1020
200-10396-6	PRR1SOLBF-06	Solid	04/17/2012 1350	04/18/2012 1020

SAMPLE RESULTS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-01

Lab Sample ID: 200-10396-1

Date Sampled: 04/17/2012 1300

Client Matrix: Solid

% Moisture: 0.5

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns12.d
Dilution:	1.0			Initial Weight/Volume:	29.95 g
Analysis Date:	05/08/2012 2152			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.23	J	3.3
2-Methylnaphthalene		3.3	U	3.3
Acenaphthylene		3.3	U	3.3
Acenaphthene		3.3	U	3.3
Fluorene		3.3	U	3.3
Hexachlorobenzene		3.3	U	3.3
Pentachlorophenol		6.7	U	6.7
Phenanthrene		0.11	J	3.3
Anthracene		3.3	U	3.3
Fluoranthene		3.3	U	3.3
Pyrene		3.3	U	3.3
Benzo(a)anthracene		3.3	U	3.3
Chrysene		3.3	U	3.3
Benzo(b)fluoranthene		3.3	U	3.3
Benzo(k)fluoranthene		3.3	U	3.3
Benzo(a)pyrene		3.3	U	3.3
Indeno(1,2,3-cd)pyrene		3.3	U	3.3
Dibenz(a,h)anthracene		3.3	U	3.3
Benzo(g,h,i)perylene		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	73		50 - 150
2-Methylnaphthalene-d10	69		50 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-02

Lab Sample ID: 200-10396-2

Date Sampled: 04/17/2012 1310

Client Matrix: Solid

% Moisture: 0.3

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns13.d
Dilution:	1.0			Initial Weight/Volume:	30.16 g
Analysis Date:	05/08/2012 2240			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.25	J	3.3
2-Methylnaphthalene		0.11	J	3.3
Acenaphthylene		3.3	U	3.3
Acenaphthene		3.3	U	3.3
Fluorene		3.3	U	3.3
Hexachlorobenzene		3.3	U	3.3
Pentachlorophenol		6.7	U	6.7
Phenanthrene		0.092	J	3.3
Anthracene		3.3	U	3.3
Fluoranthene		3.3	U	3.3
Pyrene		3.3	U	3.3
Benzo(a)anthracene		3.3	U	3.3
Chrysene		3.3	U	3.3
Benzo(b)fluoranthene		3.3	U	3.3
Benzo(k)fluoranthene		3.3	U	3.3
Benzo(a)pyrene		3.3	U	3.3
Indeno(1,2,3-cd)pyrene		3.3	U	3.3
Dibenz(a,h)anthracene		3.3	U	3.3
Benzo(g,h,i)perylene		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	74		50 - 150
2-Methylnaphthalene-d10	69		50 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-03

Lab Sample ID: 200-10396-3

Date Sampled: 04/17/2012 1320

Client Matrix: Solid

% Moisture: 1.7

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns16.d
Dilution:	1.0			Initial Weight/Volume:	29.92 g
Analysis Date:	05/09/2012 0103			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.38	J	3.4
2-Methylnaphthalene		0.18	J	3.4
Acenaphthylene		3.4	U	3.4
Acenaphthene		3.4	U	3.4
Fluorene		3.4	U	3.4
Hexachlorobenzene		3.4	U	3.4
Pentachlorophenol		6.8	U	6.8
Phenanthrene		0.12	J	3.4
Anthracene		3.4	U	3.4
Fluoranthene		3.4	U	3.4
Pyrene		0.17	J	3.4
Benzo(a)anthracene		3.4	U	3.4
Chrysene		3.4	U	3.4
Benzo(b)fluoranthene		3.4	U	3.4
Benzo(k)fluoranthene		3.4	U	3.4
Benzo(a)pyrene		3.4	U	3.4
Indeno(1,2,3-cd)pyrene		3.4	U	3.4
Dibenz(a,h)anthracene		3.4	U	3.4
Benzo(g,h,i)perylene		3.4	U	3.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	70		50 - 150
2-Methylnaphthalene-d10	68		50 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-04

Lab Sample ID: 200-10396-4

Date Sampled: 04/17/2012 1330

Client Matrix: Solid

% Moisture: 1.0

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns17.d
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	05/09/2012 0150			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.33	J	3.3
2-Methylnaphthalene		0.16	J	3.3
Acenaphthylene		3.3	U	3.3
Acenaphthene		3.3	U	3.3
Fluorene		3.3	U	3.3
Hexachlorobenzene		3.3	U	3.3
Pentachlorophenol		6.7	U	6.7
Phenanthrene		0.13	J	3.3
Anthracene		3.3	U	3.3
Fluoranthene		3.3	U	3.3
Pyrene		0.10	J	3.3
Benzo(a)anthracene		3.3	U	3.3
Chrysene		3.3	U	3.3
Benzo(b)fluoranthene		3.3	U	3.3
Benzo(k)fluoranthene		3.3	U	3.3
Benzo(a)pyrene		3.3	U	3.3
Indeno(1,2,3-cd)pyrene		3.3	U	3.3
Dibenz(a,h)anthracene		3.3	U	3.3
Benzo(g,h,i)perylene		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	76		50 - 150
2-Methylnaphthalene-d10	68		50 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-05

Lab Sample ID: 200-10396-5

Date Sampled: 04/17/2012 1340

Client Matrix: Solid

% Moisture: 0.4

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns18.d
Dilution:	1.0			Initial Weight/Volume:	30.08 g
Analysis Date:	05/09/2012 0238			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.32	J	3.3
2-Methylnaphthalene		0.17	J	3.3
Acenaphthylene		3.3	U	3.3
Acenaphthene		3.3	U	3.3
Fluorene		3.3	U	3.3
Hexachlorobenzene		3.3	U	3.3
Pentachlorophenol		6.7	U	6.7
Phenanthrene		0.16	J	3.3
Anthracene		3.3	U	3.3
Fluoranthene		0.086	J	3.3
Pyrene		0.14	J	3.3
Benzo(a)anthracene		3.3	U	3.3
Chrysene		3.3	U	3.3
Benzo(b)fluoranthene		3.3	U	3.3
Benzo(k)fluoranthene		3.3	U	3.3
Benzo(a)pyrene		3.3	U	3.3
Indeno(1,2,3-cd)pyrene		3.3	U	3.3
Dibenz(a,h)anthracene		3.3	U	3.3
Benzo(g,h,i)perylene		3.3	U	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	69		50 - 150
2-Methylnaphthalene-d10	61		50 - 150

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Client Sample ID: PRR1SOLBF-06

Lab Sample ID: 200-10396-6

Date Sampled: 04/17/2012 1350

Client Matrix: Solid

% Moisture: 0.6

Date Received: 04/18/2012 1020

SOM01.2/SV SIM Semivolatiles by SIM

Analysis Method:	SOM01.2/SV SIM	Analysis Batch:	200-38325	Instrument ID:	H.i
Prep Method:	SONC	Prep Batch:	200-38232	Lab File ID:	hmsns19.d
Dilution:	1.0			Initial Weight/Volume:	29.93 g
Analysis Date:	05/09/2012 0325			Final Weight/Volume:	10000 uL
Prep Date:	05/07/2012 2100			Injection Volume:	2 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		0.35	J	3.3
2-Methylnaphthalene		0.18	J	3.3
Acenaphthylene		3.3	U	3.3
Acenaphthene		3.3	U	3.3
Fluorene		3.3	U	3.3
Hexachlorobenzene		3.3	U	3.3
Pentachlorophenol		6.8	U	6.8
Phenanthrene		0.19	J	3.3
Anthracene		3.3	U	3.3
Fluoranthene		0.11	J	3.3
Pyrene		0.20	J	3.3
Benzo(a)anthracene		3.3	U	3.3
Chrysene		3.3	U	3.3
Benzo(b)fluoranthene		3.3	U	3.3
Benzo(k)fluoranthene		3.3	U	3.3
Benzo(a)pyrene		3.3	U	3.3
Indeno(1,2,3-cd)pyrene		3.3	U	3.3
Dibenz(a,h)anthracene		3.3	U	3.3
Benzo(g,h,i)perylene		0.089	J	3.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Fluoranthene-d10	70		50 - 150
2-Methylnaphthalene-d10	68		50 - 150

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 200-38232					
MB 200-38232/1-B	Method Blank	T	Solid	SONC	
200-10396-1	PRR1SOLBF-01	T	Solid	SONC	
200-10396-2	PRR1SOLBF-02	T	Solid	SONC	
200-10396-2MS	Matrix Spike	T	Solid	SONC	
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SONC	
200-10396-3	PRR1SOLBF-03	T	Solid	SONC	
200-10396-4	PRR1SOLBF-04	T	Solid	SONC	
200-10396-5	PRR1SOLBF-05	T	Solid	SONC	
200-10396-6	PRR1SOLBF-06	T	Solid	SONC	
Analysis Batch:200-38325					
MB 200-38232/1-B	Method Blank	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-1	PRR1SOLBF-01	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-2	PRR1SOLBF-02	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-2MS	Matrix Spike	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-2MSD	Matrix Spike Duplicate	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-3	PRR1SOLBF-03	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-4	PRR1SOLBF-04	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-5	PRR1SOLBF-05	T	Solid	SOM01.2/SV SIM	200-38232
200-10396-6	PRR1SOLBF-06	T	Solid	SOM01.2/SV SIM	200-38232

Report Basis

T = Total

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

Sdg Number: PRR1220

Surrogate Recovery Report

SOM01.2/SV SIM Semivolatiles by SIM

Client Matrix: Solid

Lab Sample ID	Client Sample ID	FLN %Rec	2MN %Rec
200-10396-1	PRR1SOLBF-01	73	69
200-10396-2	PRR1SOLBF-02	74	69
200-10396-3	PRR1SOLBF-03	70	68
200-10396-4	PRR1SOLBF-04	76	68
200-10396-5	PRR1SOLBF-05	69	61
200-10396-6	PRR1SOLBF-06	70	68
MB 200-38232/1-B		77	74
200-10396-2 MS	PRR1SOLBF-02 MS	72	66
200-10396-2 MSD	PRR1SOLBF-02 MSD	76	70

Surrogate	Acceptance Limits
FLN = Fluoranthene-d10	50-150
2MN = 2-Methylnaphthalene-d10	50-150

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3
Sdg Number: PRR1220

Method Blank - Batch: 200-38232

**Method: SOM01.2/SV SIM
Preparation: SONC**

Lab Sample ID: MB 200-38232/1-B
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/08/2012 2104
Prep Date: 05/07/2012 2100
Leach Date: N/A

Analysis Batch: 200-38325
Prep Batch: 200-38232
Leach Batch: N/A
Units: ug/Kg

Instrument ID: H.i
Lab File ID: hmsns11.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10000 uL
Injection Volume: 2 uL

Analyte	Result	Qual	RL
Naphthalene	3.3	U	3.3
2-Methylnaphthalene	3.3	U	3.3
Acenaphthylene	3.3	U	3.3
Acenaphthene	3.3	U	3.3
Fluorene	3.3	U	3.3
Hexachlorobenzene	3.3	U	3.3
Pentachlorophenol	6.7	U	6.7
Phenanthrene	3.3	U	3.3
Anthracene	3.3	U	3.3
Fluoranthene	3.3	U	3.3
Pyrene	3.3	U	3.3
Benzo(a)anthracene	3.3	U	3.3
Chrysene	3.3	U	3.3
Benzo(b)fluoranthene	3.3	U	3.3
Benzo(k)fluoranthene	3.3	U	3.3
Benzo(a)pyrene	3.3	U	3.3
Indeno(1,2,3-cd)pyrene	3.3	U	3.3
Dibenz(a,h)anthracene	3.3	U	3.3
Benzo(g,h,i)perylene	3.3	U	3.3
Surrogate	% Rec	Acceptance Limits	
Fluoranthene-d10	77	50 - 150	
2-Methylnaphthalene-d10	74	50 - 150	

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3
Sdg Number: PRR1220

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 200-38232**

**Method: SOM01.2/SV SIM
Preparation: SONC**

MS Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/08/2012 2327
Prep Date: 05/07/2012 2100
Leach Date: N/A

Analysis Batch: 200-38325
Prep Batch: 200-38232
Leach Batch: N/A

Instrument ID: H.i
Lab File ID: hmsns14.d
Initial Weight/Volume: 29.80 g
Final Weight/Volume: 10000 uL
Injection Volume: 2 uL

MSD Lab Sample ID: 200-10396-2
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 05/09/2012 0015
Prep Date: 05/07/2012 2100
Leach Date: N/A

Analysis Batch: 200-38325
Prep Batch: 200-38232
Leach Batch: N/A

Instrument ID: H.i
Lab File ID: hmsns15.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10000 uL
Injection Volume: 2 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Acenaphthene	56	64	31 - 137	13	19		
Pentachlorophenol	10	27	17 - 109	91	47	J	J
Pyrene	63	70	35 - 142	10	36		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
Fluoranthene-d10		72	76			50 - 150	
2-Methylnaphthalene-d10		66	70			50 - 150	

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

PROJECT NAME		Requested Analyses																	SDG NUMBER	COC Number									
Tierra Phase I Removal																			PRR1220										
SAMPLE ID	DATE	TIME	MATRIX	Composite/Grab	# Containers	Requested Analyses											Remarks												
						1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16	17						
PRR1SOLBF-01	4/17/2012	13:00	soil	Composite	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MS and MSD						
PRR1SOLBF-02	4/17/2012	13:10	soil	Composite	18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
PRR1SOLBF-03	4/17/2012	13:20	soil	Composite	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
PRR1SOLBF-04	4/17/2012	13:30	soil	Composite	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
PRR1SOLBF-05	4/17/2012	13:40	soil	Composite	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
PRR1SOLBF-06	4/17/2012	13:50	soil	Composite	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
TB04172012	4/17/2012		water		3	X																							
Special Instructions/Comments:		Special QA/QC Instructions																											
Refer to RAWP QAPP Worksheet 15-1 for Backfill Samples																													
Lab Name: TestAmerica -Burlington, VT		Laboratory Information and Receipt																											
Shipping Tracking #																													
Specify Turnaround Requirements: standard TAT																													
Relinquished by:	DATE	TIME	Received by:	DATE	TIME	Relinquished by:	DATE	TIME	Received by:	DATE	TIME	Relinquished by:	DATE	TIME	Received by:	DATE	TIME	Relinquished by:	DATE	TIME	Received by:	DATE	TIME	Relinquished by:	DATE	TIME	Received by:	DATE	TIME
Kevin Gandhi	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830	ASBK	4/17/12	1830

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 200-10396-3

SDG Number: PRR1220

Login Number: 10396

List Source: TestAmerica Burlington

List Number: 1

Creator: Marion, Greg T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	416687,688,685,686
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,0.8°C IR GUN ID 154/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

FedEx Tracking Number

8769 0286 0435

0200 Form ID No.

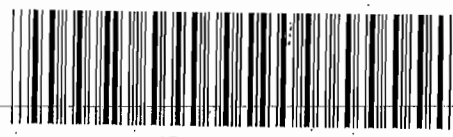
FedEx Retrieval Copy

1 From
Date 04/11/12 Sender's FedEx Account Number 304995327
Sender's Name Karin Gauthier Phone 916 552 1055
Company ARCADIS
Address 114 Glenwood St Dept./Floor/Suite/Room
City Newark State NJ ZIP 07105

2 Your Internal Billing Reference FL009766 0002 70004

3 To Recipient's Name Mark Young Phone 402 660 1990
Company Test America
Address 30 Community Dr Dept./Floor/Suite/Room
City South Burlington State VT ZIP 05403

01 HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.
01 HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.



8769 0286 0435

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

06 FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

01 FedEx Priority Overnight
Next business morning.* Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

05 FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

49 NEW FedEx 2Day A.M.
Second business morning.*
Saturday Delivery NOT available.

03 FedEx 2Day
Second business afternoon.* Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

20 FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.
06 FedEx Envelope* 02 FedEx Pak* 03 FedEx Box 04 FedEx Tube 01 Other

6 Special Handling and Delivery Signature Options
03 SATURDAY DELIVERY

No Signature Required
Package may be left without
obtaining a signature for delivery.

10 Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.

34 Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
 No Yes
As per attached Shipper's Declaration. Yes
Shipper's Declaration not required.

06 Dry Ice
Dry ice, 9 UN 1845 _____ x _____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box. Cargo Aircraft Only

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

1 Sender Acct. No. in Section 1 will be billed. 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages _____ Total Weight _____ Credit Card Auth. _____

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FedEx Tracking Number

8769 0286 0446

0200 Form ID No.

FedEx Retrieval Copy

1 From
Date 04/11/12 Sender's FedEx Account Number 304995327
Sender's Name Karin Gauthier Phone 916 552 1055
Company ARCADIS
Address 114 Glenwood St Dept./Floor/Suite/Room
City Newark State NJ ZIP 07105

2 Your Internal Billing Reference FL009766 0002 70004

3 To Recipient's Name Mark Young Phone 402 660 1990
Company Test America
Address 30 Community Dr Dept./Floor/Suite/Room
City South Burlington State VT ZIP 05403

01 HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.
01 HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.



Page 23 of 23

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

06 FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

01 FedEx Priority Overnight
Next business morning.* Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

05 FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

49 NEW FedEx 2Day A.M.
Second business morning.*
Saturday Delivery NOT available.

03 FedEx 2Day
Second business afternoon.* Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

20 FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.
05 FedEx Envelope* 02 FedEx Pak* 03 FedEx Box 04 FedEx Tube 01 Other

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No Signature Required
Package may be left without
obtaining a signature for delivery.

10 Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.

34 Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.
 No Yes
As per attached Shipper's Declaration. Yes
Shipper's Declaration not required.

06 Dry Ice
Dry ice, 9 UN 1845 _____ x _____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box. Cargo Aircraft Only

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

1 Sender Acct. No. in Section 1 will be billed. 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages _____ Total Weight _____ Credit Card Auth. _____

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May 02, 2012

Vista Project I.D.: 33725

Mr. Joseph C. Houser
ARCADIS U.S., Inc.
6723 Towpath Road
Syracuse, NY 13214-0066

Dear Mr. Houser,

Enclosed are the results for the six soil samples received at Vista Analytical Laboratory on April 18, 2012 under your Project Name "PRR1220". These samples were extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

As requested, an MS/MSD was performed on sample PRR1SOLBF-02.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at calvin@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Calvin Tanaka
Senior Scientist



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



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Section I: Sample Inventory Report

Date Received: 4/18/2012

<u>Vista Lab. ID</u>	<u>Client Sample ID</u>
33725-001	PRR1SOLBF-01
33725-002	PRR1SOLBF-02
33725-003	PRR1SOLBF-03
33725-004	PRR1SOLBF-04
33725-005	PRR1SOLBF-05
33725-006	PRR1SOLBF-06

ANALYTICAL RESULTS

Method Blank					EPA Method 1613			
Matrix:	Soil	QC Batch No.:	4397	Lab Sample:	0-MB001			
Sample Size:	1.00 g	Date Extracted:	24-Apr-12	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA	
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.124			IS 13C-2,3,7,8-TCDD	99.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.152			13C-1,2,3,7,8-PeCDD	96.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.154			13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.169			13C-1,2,3,6,7,8-HxCDD	74.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.183			13C-1,2,3,7,8,9-HxCDD	79.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.204			13C-1,2,3,4,6,7,8-HpCDD	85.7	23 - 140	
OCDD	ND	0.221			13C-OCDD	80.5	17 - 157	
2,3,7,8-TCDF	ND	0.154			13C-2,3,7,8-TCDF	94.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0839			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0823			13C-2,3,4,7,8-PeCDF	102	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0636			13C-1,2,3,4,7,8-HxCDF	92.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0603			13C-1,2,3,6,7,8-HxCDF	87.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0677			13C-2,3,4,6,7,8-HxCDF	89.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0880			13C-1,2,3,7,8,9-HxCDF	90.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0766			13C-1,2,3,4,6,7,8-HpCDF	89.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	91.7	26 - 138	
OCDF	ND	0.224			13C-OCDF	90.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.124			TEQ (Min):	0		
Total PeCDD	ND	0.152						
Total HxCDD	ND	0.183				a. Sample specific estimated detection limit.		
Total HpCDD	ND	0.204				b. Estimated maximum possible concentration.		
Total TCDF	ND	0.154				c. Method detection limit.		
Total PeCDF	ND	0.0839				d. Lower control limit - upper control limit.		
Total HxCDF	ND	0.0880				e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)		
Total HpCDF	ND	0.104				The results are reported in dry weight. The sample size is reported in wet weight.		

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

OPR Results				EPA Method 1613			
Matrix:	Soil	QC Batch No.:	4397	Lab Sample:	0-OPR001		
Sample Size:	1.00 g	Date Extracted:	24-Apr-12	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	9.99	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	96.7	20 - 175	
1,2,3,7,8-PeCDD	50.0	56.1	35 - 71	13C-1,2,3,7,8-PeCDD	96.6	21 - 227	
1,2,3,4,7,8-HxCDD	50.0	55.1	35 - 82	13C-1,2,3,4,7,8-HxCDD	81.4	21 - 193	
1,2,3,6,7,8-HxCDD	50.0	56.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	78.9	25 - 163	
1,2,3,7,8,9-HxCDD	50.0	56.4	32 - 81	13C-1,2,3,7,8,9-HxCDD	81.1	21 - 193	
1,2,3,4,6,7,8-HpCDD	50.0	54.5	35 - 70	13C-1,2,3,4,6,7,8-HpCDD	88.0	26 - 166	
OCDD	100	113	78 - 144	13C-OCDD	79.3	13 - 198.5	
2,3,7,8-TCDF	10.0	10.0	7.5 - 15.8	13C-2,3,7,8-TCDF	93.4	22 - 152	
1,2,3,7,8-PeCDF	50.0	48.7	40 - 67	13C-1,2,3,7,8-PeCDF	102	21 - 192	
2,3,4,7,8-PeCDF	50.0	49.7	34 - 80	13C-2,3,4,7,8-PeCDF	100	13 - 328	
1,2,3,4,7,8-HxCDF	50.0	46.1	36 - 67	13C-1,2,3,4,7,8-HxCDF	92.7	19 - 202	
1,2,3,6,7,8-HxCDF	50.0	47.1	42 - 65	13C-1,2,3,6,7,8-HxCDF	90.0	21 - 159	
2,3,4,6,7,8-HxCDF	50.0	45.9	35 - 78	13C-2,3,4,6,7,8-HxCDF	88.4	22 - 176	
1,2,3,7,8,9-HxCDF	50.0	46.8	39 - 65	13C-1,2,3,7,8,9-HxCDF	90.0	17 - 205	
1,2,3,4,6,7,8-HpCDF	50.0	45.0	41 - 61	13C-1,2,3,4,6,7,8-HpCDF	87.0	21 - 158	
1,2,3,4,7,8,9-HpCDF	50.0	45.4	39 - 69	13C-1,2,3,4,7,8,9-HpCDF	90.8	20 - 186	
OCDF	100	94.5	63 - 170	13C-OCDF	87.9	13 - 198.5	
				CRS 37Cl-2,3,7,8-TCDD	98.9	31 - 191	

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

Sample ID: PRR1SOLBF-01					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-001	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.0 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		%Solids:	99.3	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1300							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.119			IS 13C-2,3,7,8-TCDD	99.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.111			13C-1,2,3,7,8-PeCDD	97.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.117			13C-1,2,3,4,7,8-HxCDD	81.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.133			13C-1,2,3,6,7,8-HxCDD	76.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.142			13C-1,2,3,7,8,9-HxCDD	79.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.211			13C-1,2,3,4,6,7,8-HpCDD	87.5	23 - 140	
OCDD	ND	0.196			13C-OCDD	75.8	17 - 157	
2,3,7,8-TCDF	ND	0.144			13C-2,3,7,8-TCDF	97.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0923			13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0866			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0545			13C-1,2,3,4,7,8-HxCDF	91.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0496			13C-1,2,3,6,7,8-HxCDF	91.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0606			13C-2,3,4,6,7,8-HxCDF	89.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0772			13C-1,2,3,7,8,9-HxCDF	92.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0648			13C-1,2,3,4,6,7,8-HpCDF	86.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0915			13C-1,2,3,4,7,8,9-HpCDF	91.8	26 - 138	
OCDF	ND	0.200			13C-OCDF	86.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.119			TEQ (Min):	0		
Total PeCDD	ND	0.111						
Total HxCDD	ND	0.142						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.211						b. Estimated maximum possible concentration.
Total TCDF	ND	0.144						c. Method detection limit.
Total PeCDF	ND	0.0923						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0772						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0915						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

Sample ID: PRR1SOLBF-02					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-002	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.1 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		%Solids:	99.5	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1310							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.105			IS 13C-2,3,7,8-TCDD	98.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.105			13C-1,2,3,7,8-PeCDD	97.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.153			13C-1,2,3,4,7,8-HxCDD	81.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.175			13C-1,2,3,6,7,8-HxCDD	76.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.170			13C-1,2,3,7,8,9-HxCDD	80.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.167			13C-1,2,3,4,6,7,8-HpCDD	93.1	23 - 140	
OCDD	ND	0.247			13C-OCDD	82.1	17 - 157	
2,3,7,8-TCDF	ND	0.142			13C-2,3,7,8-TCDF	94.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0761			13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0736			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0579			13C-1,2,3,4,7,8-HxCDF	93.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0562			13C-1,2,3,6,7,8-HxCDF	89.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0676			13C-2,3,4,6,7,8-HxCDF	90.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0941			13C-1,2,3,7,8,9-HxCDF	90.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0627			13C-1,2,3,4,6,7,8-HpCDF	85.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0861			13C-1,2,3,4,7,8,9-HpCDF	93.2	26 - 138	
OCDF	ND	0.180			13C-OCDF	91.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.105			TEQ (Min):	0		
Total PeCDD	ND	0.105						
Total HxCDD	ND	0.175						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.167						b. Estimated maximum possible concentration.
Total TCDF	ND	0.142						c. Method detection limit.
Total PeCDF	ND	0.0761						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0941						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0861						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

MS Results	EPA Method 1613
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Matrix: Soil	QC Batch No.: 4397	Lab Sample: 33725-002MS/MSD	Date Analyzed DB-5:30-Apr-12
Sample Size: 10.15/10.13 g	Date Extracted: 24-Apr-12	Client Sample: PRR1SOLBF-02	

Analyte	Spike-MS pg/g	MS-%R	Spike-MSD pg/g	MSD-%R	RPD	IS Type	Internal Standard	MS-%R	MSD-%R
2,3,7,8-TCDD	19.8	94.9	19.8	97.5	2.70	IS	13C-2,3,7,8-TCDD	102	98.4
1,2,3,7,8-PeCDD	99.0	109	99.2	110	0.913		13C-1,2,3,7,8-PeCDD	98.8	99.2
1,2,3,4,7,8-HxCDD	99.0	109	99.2	110	0.913		13C-1,2,3,4,7,8-HxCDD	86.2	84.1
1,2,3,6,7,8-HxCDD	99.0	108	99.2	112	3.64		13C-1,2,3,6,7,8-HxCDD	84.4	79.3
1,2,3,7,8,9-HxCDD	99.0	112	99.2	112	0		13C-1,2,3,7,8,9-HxCDD	84.0	82.1
1,2,3,4,6,7,8-HpCDD	99.0	105	99.2	104	0.957		13C-1,2,3,4,6,7,8-HpCDD	96.0	91.5
OCDD	198	112	198	111	0.897		13C-OCDD	89.5	84.1
2,3,7,8-TCDF	19.8	97.0	19.8	104	6.97		13C-2,3,7,8-TCDF	99.5	91.7
1,2,3,7,8-PeCDF	99.0	98.4	99.2	99.5	1.11		13C-1,2,3,7,8-PeCDF	104	102
2,3,4,7,8-PeCDF	99.0	97.4	99.2	98.6	1.22		13C-2,3,4,7,8-PeCDF	104	100
1,2,3,4,7,8-HxCDF	99.0	89.4	99.2	90.4	1.11		13C-1,2,3,4,7,8-HxCDF	95.4	90.0
1,2,3,6,7,8-HxCDF	99.0	89.7	99.2	89.4	0.335		13C-1,2,3,6,7,8-HxCDF	94.7	90.1
2,3,4,6,7,8-HxCDF	99.0	87.5	99.2	91.3	4.25		13C-2,3,4,6,7,8-HxCDF	93.6	89.3
1,2,3,7,8,9-HxCDF	99.0	87.4	99.2	90.1	3.04		13C-1,2,3,7,8,9-HxCDF	97.1	92.3
1,2,3,4,6,7,8-HpCDF	99.0	87.4	99.2	88.3	1.02		13C-1,2,3,4,6,7,8-HpCDF	92.1	83.6
1,2,3,4,7,8,9-HpCDF	99.0	87.9	99.2	88.8	1.02		13C-1,2,3,4,7,8,9-HpCDF	99.2	92.1
OCDF	198	92.9	198	93.9	1.07		13C-OCDF	98.8	93.4
						CRS	37Cl-2,3,7,8-TCDD	102	99.4

Sample ID: PRR1SOLBF-03					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-003	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.1 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		%Solids:	99.6	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1320							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.115			IS 13C-2,3,7,8-TCDD	96.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.122			13C-1,2,3,7,8-PeCDD	98.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.114			13C-1,2,3,4,7,8-HxCDD	81.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.132			13C-1,2,3,6,7,8-HxCDD	75.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.138			13C-1,2,3,7,8,9-HxCDD	78.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.182			13C-1,2,3,4,6,7,8-HpCDD	86.9	23 - 140	
OCDD	ND	0.475			13C-OCDD	74.0	17 - 157	
2,3,7,8-TCDF	ND	0.147			13C-2,3,7,8-TCDF	94.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0773			13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0796			13C-2,3,4,7,8-PeCDF	97.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0474			13C-1,2,3,4,7,8-HxCDF	93.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0477			13C-1,2,3,6,7,8-HxCDF	89.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0520			13C-2,3,4,6,7,8-HxCDF	91.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0677			13C-1,2,3,7,8,9-HxCDF	92.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0734			13C-1,2,3,4,6,7,8-HpCDF	83.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0996			13C-1,2,3,4,7,8,9-HpCDF	90.5	26 - 138	
OCDF	ND	0.198			13C-OCDF	85.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.7	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.116			TEQ (Min):	0		
Total PeCDD	ND	0.122						
Total HxCDD	ND	0.138						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.182						b. Estimated maximum possible concentration.
Total TCDF	ND	0.147						c. Method detection limit.
Total PeCDF	ND	0.0796						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0677						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0996						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

Sample ID: PRR1SOLBF-04					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-004	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.2 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		%Solids:	99.4	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1330							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.103			IS 13C-2,3,7,8-TCDD	98.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.159			13C-1,2,3,7,8-PeCDD	98.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.136			13C-1,2,3,4,7,8-HxCDD	80.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.159			13C-1,2,3,6,7,8-HxCDD	76.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.170			13C-1,2,3,7,8,9-HxCDD	78.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.160			13C-1,2,3,4,6,7,8-HpCDD	91.8	23 - 140	
OCDD	ND	0.177			13C-OCDD	81.5	17 - 157	
2,3,7,8-TCDF	ND	0.157			13C-2,3,7,8-TCDF	96.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0784			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0749			13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0521			13C-1,2,3,4,7,8-HxCDF	92.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0532			13C-1,2,3,6,7,8-HxCDF	90.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0566			13C-2,3,4,6,7,8-HxCDF	90.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0765			13C-1,2,3,7,8,9-HxCDF	91.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0750			13C-1,2,3,4,6,7,8-HpCDF	89.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.108			13C-1,2,3,4,7,8,9-HpCDF	90.7	26 - 138	
OCDF	ND	0.183			13C-OCDF	91.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.148			TEQ (Min):	0		
Total PeCDD	ND	0.121						
Total HxCDD	ND	0.134						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.192						b. Estimated maximum possible concentration.
Total TCDF	ND	0.134						c. Method detection limit.
Total PeCDF	ND	0.0764						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0744						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0819						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

Sample ID: PRR1SOLBF-05					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-005	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.0 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		%Solids:	99.5	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1340							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.167			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.129			13C-1,2,3,7,8-PeCDD	96.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.125			13C-1,2,3,4,7,8-HxCDD	86.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.143			13C-1,2,3,6,7,8-HxCDD	78.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.151			13C-1,2,3,7,8,9-HxCDD	81.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.230			13C-1,2,3,4,6,7,8-HpCDD	89.5	23 - 140	
OCDD	ND	0.214			13C-OCDD	83.0	17 - 157	
2,3,7,8-TCDF	ND	0.136			13C-2,3,7,8-TCDF	97.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0745			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0758			13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0497			13C-1,2,3,4,7,8-HxCDF	95.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0485			13C-1,2,3,6,7,8-HxCDF	93.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0531			13C-2,3,4,6,7,8-HxCDF	95.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0710			13C-1,2,3,7,8,9-HxCDF	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0647			13C-1,2,3,4,6,7,8-HpCDF	90.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0997			13C-1,2,3,4,7,8,9-HpCDF	91.5	26 - 138	
OCDF	ND	0.193			13C-OCDF	93.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.167			TEQ (Min):	0		
Total PeCDD	ND	0.129						
Total HxCDD	ND	0.151						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.230						b. Estimated maximum possible concentration.
Total TCDF	ND	0.136						c. Method detection limit.
Total PeCDF	ND	0.0758						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0710						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0997						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

Sample ID: PRR1SOLBF-06					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	ARCADIS U.S., Inc.		Matrix:	Soil	Lab Sample:	33725-006	Date Received:	18-Apr-12
Project:	PRR1220		Sample Size:	10.0 g	QC Batch No.:	4397	Date Extracted:	24-Apr-12
Date Collected:	17-Apr-12		% Solids:	99.6	Date Analyzed DB-5:	30-Apr-12	Date Analyzed DB-225:	NA
Time Collected:	1350							
Analyte	Conc. (pg/g)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.148			IS 13C-2,3,7,8-TCDD	98.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.121			13C-1,2,3,7,8-PeCDD	98.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	83.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.128			13C-1,2,3,6,7,8-HxCDD	77.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.134			13C-1,2,3,7,8,9-HxCDD	81.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.192			13C-1,2,3,4,6,7,8-HpCDD	89.5	23 - 140	
OCDD	ND	0.208			13C-OCDD	83.4	17 - 157	
2,3,7,8-TCDF	ND	0.134			13C-2,3,7,8-TCDF	94.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0764			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0753			13C-2,3,4,7,8-PeCDF	102	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0537			13C-1,2,3,4,7,8-HxCDF	92.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0509			13C-1,2,3,6,7,8-HxCDF	91.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0584			13C-2,3,4,6,7,8-HxCDF	91.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0744			13C-1,2,3,7,8,9-HxCDF	95.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0603			13C-1,2,3,4,6,7,8-HpCDF	89.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0819			13C-1,2,3,4,7,8,9-HpCDF	92.6	26 - 138	
OCDF	ND	0.187			13C-OCDF	91.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	
Totals					Toxic Equivalent Quotient (TEQ) Data ^e			
Total TCDD	ND	0.148			TEQ (Min):	0		
Total PeCDD	ND	0.121						
Total HxCDD	ND	0.134						a. Sample specific estimated detection limit.
Total HpCDD	ND	0.192						b. Estimated maximum possible concentration.
Total TCDF	ND	0.134						c. Method detection limit.
Total PeCDF	ND	0.0764						d. Lower control limit - upper control limit.
Total HxCDF	ND	0.0744						e. TEQ based on (2005) World Health Organization Toxic Equivalent Factors.(WHO)
Total HpCDF	ND	0.0819						The results are reported in dry weight. The sample size is reported in wet weight.

Analyst: ANP

Approved By: Calvin Tanaka 02-May-2012 09:42

EPA Method 1613 Solid

Congeners	MDL (pg/g)	RL (pg/g)
2,3,7,8-TCDD	0.0808	0.50
1,2,3,7,8-PeCDD	0.133	2.5
1,2,3,4,7,8-HxCDD	0.226	2.5
1,2,3,6,7,8-HxCDD	0.190	2.5
1,2,3,7,8,9-HxCDD	0.192	2.5
1,2,3,4,6,7,8-HpCDD	0.117	2.5
OCDD	0.200	5.0
2,3,7,8-TCDF	0.0379	0.50
1,2,3,7,8-PeCDF	0.135	2.5
2,3,4,7,8-PeCDF	0.129	2.5
1,2,3,4,7,8-HxCDF	0.119	2.5
1,2,3,6,7,8-HxCDF	0.0784	2.5
2,3,4,6,7,8-HxCDF	0.119	2.5
1,2,3,7,8,9-HxCDF	0.108	2.5
1,2,3,4,6,7,8-HpCDF	0.136	2.5
1,2,3,4,7,8,9-HpCDF	0.0798	2.5
OCDF	0.492	5.0

18-Aug-11

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	CA00413
Alabama Dept of Environmental Management	41610
Arizona Department Of Health Services	AZ0639
Arkansas Dept of Environmental Quality	11-035-0
California Dept of Health – NELAP	02102CA
Colorado Dept of Public Health & Environment	N/A
Connecticut Dept of Public Health	PH-0182
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Dept of Health	E87777
Indiana Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Louisiana Department of Health and Hospitals	LA110017
Maine Department of Health	2010021
Michigan Department of Natural Resources	9932
Mississippi Department of Health	N/A
Nevada Division of Environmental Protection	CA004132011-1
New Jersey Dept of Environmental Protection	CA003
New York Department of Health	11411
North Carolina Dept of Health & Human Services	06700
North Dakota Dept of Health	R-078
Oklahoma Dept of Environmental Quality	2011-120
Oregon Laboratory Accreditation Program	CA200001
Pennsylvania Dept of Environmental Protection	68-00490
South Carolina Dept of Health	87002001
Tennessee Dept of Environment and Conservation	TN02996
Texas Commission on Environmental Quality	T104704189-11-2
Utah Dept of Health	CA16400
Virginia Dept of General Services	00013
Washington Department of Ecology	C584
Wisconsin Dept of Natural Resources	998036160

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

33725 1.3°C

ARCADIS
6723 Towpath Rd
Syracuse, NY 13214
Phone/Fax: (315) 671-9688

PROJ. NO. B0009964.0002.70004						PROJECT NAME Tierra Phase I Removal												SDG NUMBER PRR1220		COC Number				
SAMPLERS:						Requested Analyses														Remarks				
SAMPLE ID	DATE	TIME	MATRIX	Composite/Grab	# Containers	1	2	3	4	5	6	7	8	9	10	11	12	13	14			15	16	17
PRR1SOLBF-01	4/17/2012	13:00	soil	Composite	1	X																		MS and MSD
PRR1SOLBF-02	4/17/2012	13:10	soil	Composite	3	X																		
PRR1SOLBF-03	4/17/2012	13:20	soil	Composite	1	X																		
PRR1SOLBF-04	4/17/2012	13:30	soil	Composite	1	X																		
PRR1SOLBF-05	4/17/2012	13:40	soil	Composite	1	X																		
PRR1SOLBF-06	4/17/2012	13:50	soil	Composite	1	X																		
Requested Analyses						Special Instructions/Comments:						<input type="checkbox"/> Special QA/QC Instructions												
1 Dioxins						Refer to RAWP QAPP Worksheet 15-1 for Backfill Samples																		
Laboratory Information and Receipt						Lab Name: Vista Analytical - El Dorado Hills, CA						<input type="checkbox"/> Cooler packed with ice						Sample Receipt:						
Shipping Tracking #						Specify Turnaround Requirements: standard TAT						<input type="checkbox"/> Cooler custody seal intact						Condition/Cooler Temp:						
Relinquished by:		DATE		TIME		Received by:		Relinquished by:		DATE		Received by:												
Kavin Ganelli		04/17/12		1830								4/18/12												
Amir Polce												0841												
Relinquished by:		DATE		TIME		Received by:		Relinquished by:		DATE		Received by:												
Relinquished by:		DATE		TIME		Received by:		Relinquished by:		DATE		Received by:												

Vista Analytical – El Dorado Hills, CA

SDG TRACKING LOG

SDG Number PRR1220

SDG Open Date 04/17/12

Sample Matrix Soil

SDG Close Date 04/17/12

Sample #	Sample ID	MS/MSD	Comments
1	PRR1SOLBF-01		
2	PRR1SOLBF-02		MS and MSD
3	PRR1SOLBF-03		
4	PRR1SOLBF-04		
5	PRR1SOLBF-05		
6	PRR1SOLBF-06		
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

Notes:

1. The SDG must not exceed 20 field samples. Trip or Field Blanks do not count towards the sample total. Check which of the 20 samples has been collected to include extra volume for MS/MSD and assigned as such.
2. 3x the weights listed should be collected for lab QC (i.e., MS/MSD/internal lab duplicate).
3. Field duplicate is a separate sample, not to be confused with "internal lab duplicate."

SAMPLE LOG-IN CHECKLIST



Vista Project #: 33 725 TAT Std.

Samples Arrival:	Date/Time 4/18/12 0838	Initials: AR	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 4/19/12 0827	Initials: BSB	Location: WR-2
			Shelf/Rack: F 5
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
		<input type="radio"/> None	
Temp °C 1.3	Time: 0843	Thermometer ID: IR-1	

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Shipping Documentation Present?	✓		
Airbill	✓		
Trk # 876902860424			
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Na ₂ S ₂ O ₃ Preservation Documented?			None
COC			
Sample Container			
Shipping Container	Vista	Client	Retain
		Return	Dispose

Comments:

1 From Date 04/17/12 Sender's FedEx Account Number 304995327
 Sender's Name Kevin Gardini Phone 716 353 1055
 Company ARCADIS
 Address 117 Blandford St
 City Newark State NJ ZIP 07105
 Dept./Floor/Suite/Room

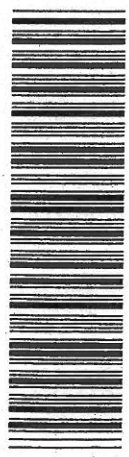
2 Your Internal Billing Reference B008966-0002-70004
 3 To Recipient's Name Martha Maier Phone 916 633 1520
 Company VISTA Analytics
 Address 1104 Windford Way
 City Torrance Hills State CA ZIP 95762
 Dept./Floor/Suite/Room

4 Express Package Service *To most locations. NOTE: Service order has changed. Please select carefully.
 Packages up to 150 lbs. For packages over 150 lbs, use the new FedEx Express Freight tag format.
 2 or 3 Business Days
 49 NEW FedEx 2Day A.M. Second business morning. Saturday Delivery NOT available.
 03 FedEx 2Day Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 20 FedEx Express Saver Third business day. Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.
 06 FedEx Envelope* 02 FedEx Pak* 03 FedEx BDX 04 FedEx Tube 01 Other

6 Special Handling and Delivery Signature Options
 03 SATURDAY DELIVERY
 No Signature Required 10 Direct Signature 34 Indirect Signature
 Package may be left without obtaining a signature for delivery. Someone at recipient's address may sign for delivery. Fee applies. Package is delivered to recipient's address; someone at recipient's address may sign for delivery. Fee applies. Residential deliveries only. Fee applies.
 Does this shipment contain dangerous goods?
 One box must be checked.
 No 04 Yes Shipper's Declaration 06 Dry Ice Dry Ice UN 1845
 As per attached Shipper's Declaration. not required. CARGO AIRCRAFT ONLY

7 Payment Bill to:
 Sender Acct. No. in Section 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check
 Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.
 Total Packages 1 Total Weight 25 lbs. Credit Card Auth.
 Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.



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