

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-33207-1
Client Project/Site: EPH/VPH

For:
CH2M Hill Constructors, Inc.
2300 NW Walnut Boulevard
Corvallis, Oregon 97330

Attn: Kathy McKinley



Authorized for release by:
6/20/2012 1:00:09 PM

Kristine Allen
Project Manager I
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Job ID: 580-33207-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 6/2/2012 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA - Method NWTPH/VPH The method blank for batch 112889 contained several ranges above the method detection limit. These target analyte concentrations were less than 1/2 the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC Semi VOA - Method NWTPH/EPH

Surrogate recovery of o-Terphenyl for the following sample was outside control limits: GP302-7'-8' (580-33207-2). Evidence of matrix interference is present, as this sample required a dilution; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
D	The reported value is from a dilution.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
D	The reported value is from a dilution.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Client Sample ID: GP301-10'-11'

Lab Sample ID: 580-33207-1

Date Collected: 05/31/12 09:30

Matrix: Solid

Date Received: 06/02/12 10:10

Percent Solids: 81.1

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	0.42	J	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C6-C8 Aliphatics	0.31	J	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C8-C10 Aliphatics	0.37	U	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C10-C12 Aliphatics	0.37	U	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C8-C10 Aromatics	0.15	J	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C10-C12 Aromatics	0.12	J	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
C12-C13 Aromatics	0.26	J	2.5	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
Total VPH	1.3	J	17	0.12	mg/Kg	☼	06/04/12 08:15	06/08/12 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		60 - 140				06/04/12 08:15	06/08/12 01:08	1
BFB - PID	104		60 - 140				06/04/12 08:15	06/08/12 01:08	1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	0.24	U	6.1	0.12	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C12-C16 Aliphatics	1.2	J	6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C16-C21 Aliphatics	15		6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C21-C34 Aliphatics	23		6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C10-C12 Aromatics	0.12	J	6.1	0.088	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C12-C16 Aromatics	1.3	J	6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C16-C21 Aromatics	30		6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
C21-C34 Aromatics	84		6.1	1.2	mg/Kg	☼	06/04/12 13:51	06/15/12 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	110	M	60 - 140				06/04/12 13:51	06/15/12 14:17	1
1-Chlorooctadecane	103		60 - 140				06/04/12 13:51	06/15/12 14:17	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOQ	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	0.10	%			06/06/12 14:39	1
Percent Moisture	19		0.10	0.10	%			06/06/12 14:39	1

Client Sample Results

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Client Sample ID: GP302-7'-8'

Lab Sample ID: 580-33207-2

Date Collected: 05/31/12 10:00

Matrix: Solid

Date Received: 06/02/12 10:10

Percent Solids: 83.3

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	3.6	U	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C6-C8 Aliphatics	3.9	J D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C8-C10 Aliphatics	1.2	J D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C10-C12 Aliphatics	2.3	J D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C8-C10 Aromatics	3.7	J D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C10-C12 Aromatics	5.8	J D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
C12-C13 Aromatics	50	D	24	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10
Total VPH	68	J D	170	1.2	mg/Kg	☼	06/04/12 08:15	06/08/12 02:53	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		60 - 140	06/04/12 08:15	06/08/12 02:53	10
BFB - PID	105		60 - 140	06/04/12 08:15	06/08/12 02:53	10

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	1.0	J	12	0.23	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1
C12-C16 Aliphatics	74		12	2.4	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1
C16-C21 Aliphatics	290	J	12	2.4	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1
C21-C34 Aliphatics	420	J	12	2.4	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1
C10-C12 Aromatics	10	J	12	0.17	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1
C12-C16 Aromatics	510	J	12	2.4	mg/Kg	☼	06/04/12 13:51	06/15/12 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	0	Q	60 - 140	06/04/12 13:51	06/15/12 14:48	1
1-Chlorooctadecane	74	M	60 - 140	06/04/12 13:51	06/15/12 14:48	1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C16-C21 Aromatics	8900	D	1200	240	mg/Kg	☼	06/04/12 13:51	06/15/12 15:15	100
C21-C34 Aromatics	3400	D	1200	240	mg/Kg	☼	06/04/12 13:51	06/15/12 15:15	100

General Chemistry

Analyte	Result	Qualifier	LOQ	LOQ	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83		0.10	0.10	%			06/06/12 14:39	1
Percent Moisture	17		0.10	0.10	%			06/06/12 14:39	1

QC Sample Results

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 580-112884/1-A

Matrix: Solid

Analysis Batch: 112889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112884

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	0.363	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C6-C8 Aliphatics	0.256	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C8-C10 Aliphatics	0.30	U	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C10-C12 Aliphatics	0.147	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C8-C10 Aromatics	0.160	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C10-C12 Aromatics	0.192	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
C12-C13 Aromatics	0.454	J	2.0	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1
Total VPH	1.61	J	14	0.10	mg/Kg		06/07/12 15:31	06/07/12 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		60 - 140	06/07/12 15:31	06/07/12 20:17	1
BFB - PID	107		60 - 140	06/07/12 15:31	06/07/12 20:17	1

Lab Sample ID: LCS 580-112884/2-A

Matrix: Solid

Analysis Batch: 112889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C5-C6 Aliphatics	8.00	7.43		mg/Kg		93	70 - 130
C6-C8 Aliphatics	4.00	4.06		mg/Kg		101	70 - 130
C8-C10 Aliphatics	8.00	8.43		mg/Kg		105	70 - 130
C10-C12 Aliphatics	4.00	4.63		mg/Kg		116	70 - 130
C8-C10 Aromatics	16.0	15.9		mg/Kg		99	70 - 130
C10-C12 Aromatics	4.00	3.89		mg/Kg		97	70 - 130
C12-C13 Aromatics	8.00	7.44		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		60 - 140
BFB - PID	104		60 - 140

Lab Sample ID: LCSD 580-112884/3-A

Matrix: Solid

Analysis Batch: 112889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112884

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C5-C6 Aliphatics	8.00	7.14		mg/Kg		89	70 - 130	4	25
C6-C8 Aliphatics	4.00	3.81		mg/Kg		95	70 - 130	6	25
C8-C10 Aliphatics	8.00	7.98		mg/Kg		100	70 - 130	5	25
C10-C12 Aliphatics	4.00	4.40		mg/Kg		110	70 - 130	5	25
C8-C10 Aromatics	16.0	16.1		mg/Kg		101	70 - 130	1	25
C10-C12 Aromatics	4.00	3.87		mg/Kg		97	70 - 130	1	25
C12-C13 Aromatics	8.00	7.26		mg/Kg		91	70 - 130	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		60 - 140
BFB - PID	103		60 - 140

QC Sample Results

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 580-112572/1-B

Matrix: Solid

Analysis Batch: 113372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112572

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C12 Aliphatics	0.20	U	5.0	0.095	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C12-C16 Aliphatics	2.0	U	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C16-C21 Aliphatics	2.0	U	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C21-C34 Aliphatics	2.0	U	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C10-C12 Aromatics	0.0934	J	5.0	0.072	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C12-C16 Aromatics	2.0	U	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C16-C21 Aromatics	2.0	U	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1
C21-C34 Aromatics	2.19	J M	5.0	1.0	mg/Kg		06/04/12 13:51	06/14/12 20:15	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	79		60 - 140	06/04/12 13:51	06/14/12 20:15	1
1-Chlorooctadecane	83		60 - 140	06/04/12 13:51	06/14/12 20:15	1

Lab Sample ID: LCS 580-112572/2-B

Matrix: Solid

Analysis Batch: 113372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
C10-C12 Aliphatics	6.67	5.61		mg/Kg		84	70 - 130
C12-C16 Aliphatics	13.3	13.2		mg/Kg		99	70 - 130
C16-C21 Aliphatics	20.0	22.9		mg/Kg		114	70 - 130
C21-C34 Aliphatics	40.0	45.2		mg/Kg		113	70 - 130
C10-C12 Aromatics	6.67	5.19		mg/Kg		78	70 - 130
C12-C16 Aromatics	20.0	17.5		mg/Kg		88	70 - 130
C16-C21 Aromatics	40.0	33.3		mg/Kg		83	70 - 130
C21-C34 Aromatics	53.3	48.2		mg/Kg		90	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	99		60 - 140
1-Chlorooctadecane	103		60 - 140

Lab Sample ID: LCSD 580-112572/3-B

Matrix: Solid

Analysis Batch: 113372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C12 Aromatics	6.67	6.02		mg/Kg		90	70 - 130	15	25
C12-C16 Aromatics	20.0	20.6		mg/Kg		103	70 - 130	16	25
C16-C21 Aromatics	40.0	37.8		mg/Kg		94	70 - 130	12	25
C21-C34 Aromatics	53.3	58.0		mg/Kg		109	70 - 130	19	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	108		60 - 140

QC Sample Results

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 580-112572/3-B

Matrix: Solid

Analysis Batch: 113372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
C10-C12 Aliphatics	6.67	4.93	J	mg/Kg		74	70 - 130	13	25
C12-C16 Aliphatics	13.3	11.8		mg/Kg		89	70 - 130	11	25
C16-C21 Aliphatics	20.0	19.7		mg/Kg		98	70 - 130	15	25
C21-C34 Aliphatics	40.0	39.1		mg/Kg		98	70 - 130	15	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctadecane	88		60 - 140

Lab Chronicle

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Client Sample ID: GP301-10'-11'

Lab Sample ID: 580-33207-1

Date Collected: 05/31/12 09:30

Matrix: Solid

Date Received: 06/02/12 10:10

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112884	06/04/12 08:15	MAT	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	112889	06/08/12 01:08	MAT	TAL SEA
Total/NA	Prep	3550B			112572	06/04/12 13:51	KKW	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	113372	06/15/12 14:17	EK	TAL SEA
Total/NA	Analysis	D 2216		1	112770	06/06/12 14:39	EZ	TAL SEA

Client Sample ID: GP302-7'-8'

Lab Sample ID: 580-33207-2

Date Collected: 05/31/12 10:00

Matrix: Solid

Date Received: 06/02/12 10:10

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112884	06/04/12 08:15	MAT	TAL SEA
Total/NA	Analysis	NWTPH/VPH		10	112889	06/08/12 02:53	MAT	TAL SEA
Total/NA	Prep	3550B			112572	06/04/12 13:51	KKW	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	113372	06/15/12 14:48	EK	TAL SEA
Total/NA	Prep	3550B	DL		112572	06/04/12 13:51	KKW	TAL SEA
Total/NA	Analysis	NWTPH/EPH	DL	100	113372	06/15/12 15:15	EK	TAL SEA
Total/NA	Analysis	D 2216		1	112770	06/06/12 14:39	EZ	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Seattle	Alaska (UST)	State Program	10	UST-022
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana (UST)	State Program	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	Federal		P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Sample Summary

Client: CH2M Hill Constructors, Inc.
Project/Site: EPH/VPH

TestAmerica Job ID: 580-33207-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-33207-1	GP301-10'-11'	Solid	05/31/12 09:30	06/02/12 10:10
580-33207-2	GP302-7'-8'	Solid	05/31/12 10:00	06/02/12 10:10

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33207



CHAIN OF CUSTODY RECORD

1100 NE Circle Blvd.
Suite 300
Corvallis, OR 97330
Tel 541.768.3120
asl@ch2m.com

Contract Laboratory Information: TestAmerica-Seattle Attn: Sample Custody 5755 8th Street East Tacoma, WA 98424	Sample Batch Information: Client: CONFIDENTIAL Batch Code: L1754 Date Received: 6/1/2012 Contact: Kathy McKinley Hazardous: No	Billing Information: Reference Project Number: 163160.AS.OS 541-752-4271
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Report Information:
Reporting Address: CH2M HILL Applied Sciences Laboratory, 1100 NE Circle Blvd, Suite 300, Corvallis, OR 97330
Attention: Kathy McKinley Report Due: 6/14/2012 QA Level: 2

Special Instructions:

Sample ID	Lab ID	Sample Date/Time	Method	Requested Test	Date Due	Matrix
1- GP301-10-11'	L175401	5/31/2012 09:30	NWTPH-EPH	TPH-EPH (soil)	6/14/2012	Soil
2- GP302-7-8'	L175402	5/31/2012 10:00	NWTPH-EPH	TPH-EPH (soil)	6/14/2012	Soil
1- GP301-10-11'	L175401	5/31/2012 09:30	NWTPH-VPH	TPH-VPH (soil)	6/14/2012	Soil
2- GP302-7-8'	L175402	5/31/2012 10:00	NWTPH-VPH	TPH-VPH (soil)	6/14/2012	Soil

Cooler/TB Dig/IR for 4.4 unc 45
Cooler Discarded @ Lab
Wet/Packs Packing *bababati*
6/1/12 Eads Not del.

Relinquished By <i>Janet McGeary</i>	Date/Time 6/1/12 1400	Received By <i>Kathy McKinley</i>	Date/Time 6/1/12 1010
Relinquished By	Date/Time	Received By	Date/Time

Printed 06/01/2012

Login Sample Receipt Checklist

Client: CH2M Hill Constructors, Inc.

Job Number: 580-33207-1

Login Number: 33207

List Number: 1

Creator: Riley, Nicole

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not requested on COC.
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	See NCM.
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.