

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
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Tel: (253)922-2310

TestAmerica Job ID: 580-38690-1
Client Project/Site: Testing

For:
CH2M Hill, Inc.
1100 NE Circle Boulevard
Suite 300
Corvallis, Oregon 97330

Attn: Kathy McKinley



Authorized for release by:
6/5/2013 5:26:05 PM

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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, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Job ID: 580-38690-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 5/31/2013 10:50 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.

Except:

The following samples were received outside of holding time: SW03-052213-SCE (580-38690-1), SW04-0502213-SCE (580-38690-2). Samples were analyzed outside of the holding time at the clients request.

GC Semi VOA

Method(s) 608: In analytical batch 136953 the continuing calibration verification (CCV) associated with preparation batch 136886 recovered above the upper control limit for Endosulfan Sulfate. The samples associated with this CCV were non-detects for the affected analytes and the QC is within control limits, thus not affected by the high bias; therefore, the data have been reported. The following samples are impacted: (CCVRT 580-136953/2), (LCS 580-136886/2-A), (LCSD 580-136886/3-A), (MB 580-136886/1-A).

Method(s) 608: In analytical batch 136953, the dual column RPD was greater than 40% for the following analytes in the LCS and LCSD: 4,4-DDD, 4,4-DDT, delta-BHC, Endrin ketone, Endosulfan sulfate and Endosulfan II. Due to a CCV failure, the lower values were reported for 4,4-DDD, 4,4-DDT, delta-BHC and Endrin ketone. For the remaining analytes, the higher values were reported, per the method. The affected analytes have been "p" and "P" flagged, for lower value reporting and higher value reporting, respectively, and reported.

Method(s) 608: In analytical batch 136953 the following samples had a dual column RPD greater than 40%; SW03-052213-SCE (580-38690-1) however, due to CCV failure the lower value was reported for gamma-BHC.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
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, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Client Sample ID: SW03-052213-SCE

Lab Sample ID: 580-38690-1

Date Collected: 05/22/13 12:30

Matrix: Water

Date Received: 05/31/13 10:50

Method: 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	0.010	0.00061	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1016	ND	H	0.51	0.046	ug/L		06/03/13 11:51	06/04/13 16:39	1
alpha-BHC	ND	H	0.010	0.0026	ug/L		06/03/13 11:51	06/04/13 11:32	1
beta-BHC	ND	H	0.020	0.0015	ug/L		06/03/13 11:51	06/04/13 11:32	1
delta-BHC	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:32	1
gamma-BHC (Lindane)	0.0017	J H p	0.010	0.00061	ug/L		06/03/13 11:51	06/04/13 11:32	1
4,4'-DDD	ND	H	0.020	0.00081	ug/L		06/03/13 11:51	06/04/13 11:32	1
4,4'-DDE	ND	H	0.020	0.0011	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1221	ND	H	0.51	0.063	ug/L		06/03/13 11:51	06/04/13 16:39	1
4,4'-DDT	ND	H	0.020	0.0010	ug/L		06/03/13 11:51	06/04/13 11:32	1
Dieldrin	ND	H	0.020	0.00091	ug/L		06/03/13 11:51	06/04/13 11:32	1
Endosulfan I	ND	H	0.020	0.00051	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1232	ND	H	0.51	0.042	ug/L		06/03/13 11:51	06/04/13 16:39	1
Endosulfan II	ND	H	0.020	0.00091	ug/L		06/03/13 11:51	06/04/13 11:32	1
Endosulfan sulfate	ND	H ^	0.020	0.00081	ug/L		06/03/13 11:51	06/04/13 11:32	1
Endrin	ND	H	0.020	0.00071	ug/L		06/03/13 11:51	06/04/13 11:32	1
Endrin aldehyde	ND	H	0.051	0.0010	ug/L		06/03/13 11:51	06/04/13 11:32	1
Heptachlor	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:32	1
Heptachlor epoxide	ND	H	0.010	0.00091	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1242	ND	H	0.51	0.042	ug/L		06/03/13 11:51	06/04/13 16:39	1
Endrin ketone	ND	H	0.020	0.00071	ug/L		06/03/13 11:51	06/04/13 11:32	1
Toxaphene	ND	H	1.0	0.27	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1248	ND	H	0.51	0.072	ug/L		06/03/13 11:51	06/04/13 16:39	1
alpha-Chlordane	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:32	1
gamma-Chlordane	ND	H	0.010	0.0011	ug/L		06/03/13 11:51	06/04/13 11:32	1
Aroclor 1254	ND	H	0.51	0.045	ug/L		06/03/13 11:51	06/04/13 16:39	1
Aroclor 1260	ND	H	0.51	0.040	ug/L		06/03/13 11:51	06/04/13 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		44 - 123				06/03/13 11:51	06/04/13 11:32	1
Tetrachloro-m-xylene	115		44 - 123				06/03/13 11:51	06/04/13 16:39	1
DCB Decachlorobiphenyl	69		37 - 156				06/03/13 11:51	06/04/13 11:32	1
DCB Decachlorobiphenyl	80		37 - 156				06/03/13 11:51	06/04/13 16:39	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Client Sample ID: SW04-0502213-SCE

Lab Sample ID: 580-38690-2

Date Collected: 05/22/13 12:45

Matrix: Water

Date Received: 05/31/13 10:50

Method: 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.00083	J H	0.010	0.00061	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1016	ND	H	0.51	0.046	ug/L		06/03/13 11:51	06/04/13 16:53	1
alpha-BHC	ND	H	0.010	0.0026	ug/L		06/03/13 11:51	06/04/13 11:50	1
beta-BHC	ND	H	0.020	0.0015	ug/L		06/03/13 11:51	06/04/13 11:50	1
delta-BHC	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:50	1
gamma-BHC (Lindane)	ND	H	0.010	0.00061	ug/L		06/03/13 11:51	06/04/13 11:50	1
4,4'-DDD	ND	H	0.020	0.00081	ug/L		06/03/13 11:51	06/04/13 11:50	1
4,4'-DDE	ND	H	0.020	0.0011	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1221	ND	H	0.51	0.063	ug/L		06/03/13 11:51	06/04/13 16:53	1
4,4'-DDT	ND	H	0.020	0.0010	ug/L		06/03/13 11:51	06/04/13 11:50	1
Dieldrin	ND	H	0.020	0.00091	ug/L		06/03/13 11:51	06/04/13 11:50	1
Endosulfan I	ND	H	0.020	0.00051	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1232	ND	H	0.51	0.042	ug/L		06/03/13 11:51	06/04/13 16:53	1
Endosulfan II	ND	H	0.020	0.00091	ug/L		06/03/13 11:51	06/04/13 11:50	1
Endosulfan sulfate	ND	H ^	0.020	0.00081	ug/L		06/03/13 11:51	06/04/13 11:50	1
Endrin	ND	H	0.020	0.00071	ug/L		06/03/13 11:51	06/04/13 11:50	1
Endrin aldehyde	ND	H	0.051	0.0010	ug/L		06/03/13 11:51	06/04/13 11:50	1
Heptachlor	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:50	1
Heptachlor epoxide	ND	H	0.010	0.00091	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1242	ND	H	0.51	0.042	ug/L		06/03/13 11:51	06/04/13 16:53	1
Endrin ketone	ND	H	0.020	0.00071	ug/L		06/03/13 11:51	06/04/13 11:50	1
Toxaphene	ND	H	1.0	0.27	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1248	ND	H	0.51	0.072	ug/L		06/03/13 11:51	06/04/13 16:53	1
alpha-Chlordane	ND	H	0.010	0.00051	ug/L		06/03/13 11:51	06/04/13 11:50	1
gamma-Chlordane	ND	H	0.010	0.0011	ug/L		06/03/13 11:51	06/04/13 11:50	1
Aroclor 1254	ND	H	0.51	0.045	ug/L		06/03/13 11:51	06/04/13 16:53	1
Aroclor 1260	ND	H	0.51	0.040	ug/L		06/03/13 11:51	06/04/13 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	72		44 - 123				06/03/13 11:51	06/04/13 11:50	1
<i>Tetrachloro-m-xylene</i>	97		44 - 123				06/03/13 11:51	06/04/13 16:53	1
<i>DCB Decachlorobiphenyl</i>	48		37 - 156				06/03/13 11:51	06/04/13 11:50	1
<i>DCB Decachlorobiphenyl</i>	61		37 - 156				06/03/13 11:51	06/04/13 16:53	1

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Method: 608 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 580-136886/1-A

Matrix: Water

Analysis Batch: 136953

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.010	0.00060	ug/L		06/03/13 11:51	06/04/13 09:50	1
alpha-BHC	ND		0.010	0.0026	ug/L		06/03/13 11:51	06/04/13 09:50	1
beta-BHC	ND		0.020	0.0015	ug/L		06/03/13 11:51	06/04/13 09:50	1
delta-BHC	ND		0.010	0.00050	ug/L		06/03/13 11:51	06/04/13 09:50	1
gamma-BHC (Lindane)	ND		0.010	0.00060	ug/L		06/03/13 11:51	06/04/13 09:50	1
4,4'-DDD	ND		0.020	0.00080	ug/L		06/03/13 11:51	06/04/13 09:50	1
4,4'-DDE	ND		0.020	0.0011	ug/L		06/03/13 11:51	06/04/13 09:50	1
4,4'-DDT	ND		0.020	0.0010	ug/L		06/03/13 11:51	06/04/13 09:50	1
Dieldrin	ND		0.020	0.00090	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endosulfan I	ND		0.020	0.00050	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endosulfan II	ND		0.020	0.00090	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endosulfan sulfate	ND	^	0.020	0.00080	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endrin	ND		0.020	0.00070	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endrin aldehyde	ND		0.050	0.0010	ug/L		06/03/13 11:51	06/04/13 09:50	1
Heptachlor	ND		0.010	0.00050	ug/L		06/03/13 11:51	06/04/13 09:50	1
Heptachlor epoxide	ND		0.010	0.00090	ug/L		06/03/13 11:51	06/04/13 09:50	1
Endrin ketone	ND		0.020	0.00070	ug/L		06/03/13 11:51	06/04/13 09:50	1
Toxaphene	ND		1.0	0.27	ug/L		06/03/13 11:51	06/04/13 09:50	1
alpha-Chlordane	ND		0.010	0.00050	ug/L		06/03/13 11:51	06/04/13 09:50	1
gamma-Chlordane	ND		0.010	0.0011	ug/L		06/03/13 11:51	06/04/13 09:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		44 - 123				06/03/13 11:51	06/04/13 09:50	1
DCB Decachlorobiphenyl	104		37 - 156				06/03/13 11:51	06/04/13 09:50	1

Lab Sample ID: MB 580-136886/1-A

Matrix: Water

Analysis Batch: 136948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.045	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1221	ND		0.50	0.062	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1232	ND		0.50	0.041	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1242	ND		0.50	0.041	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1248	ND		0.50	0.071	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1254	ND		0.50	0.044	ug/L		06/03/13 11:51	06/04/13 15:58	1
Aroclor 1260	ND		0.50	0.039	ug/L		06/03/13 11:51	06/04/13 15:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		44 - 123				06/03/13 11:51	06/04/13 15:58	1
DCB Decachlorobiphenyl	127		37 - 156				06/03/13 11:51	06/04/13 15:58	1

TestAmerica Seattle

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 580-136886/2-A

Matrix: Water

Analysis Batch: 136953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.200	0.175		ug/L		87	42 - 122
alpha-BHC	0.200	0.164		ug/L		82	37 - 134
beta-BHC	0.200	0.180		ug/L		90	17 - 147
delta-BHC	0.200	0.174	p	ug/L		87	19 - 140
gamma-BHC (Lindane)	0.200	0.181		ug/L		91	32 - 127
4,4'-DDD	0.200	0.178	p	ug/L		89	31 - 141
4,4'-DDE	0.200	0.177		ug/L		88	30 - 145
4,4'-DDT	0.200	0.174	p	ug/L		87	25 - 160
Dieldrin	0.200	0.181		ug/L		91	36 - 146
Endosulfan I	0.200	0.244		ug/L		122	45 - 153
Endosulfan II	0.200	0.265		ug/L		133	0.1 - 202
Endosulfan sulfate	0.200	0.252	^ P	ug/L		126	26 - 144
Endrin	0.200	0.201		ug/L		101	30 - 147
Endrin aldehyde	0.200	0.185		ug/L		93	50 - 150
Heptachlor	0.200	0.186		ug/L		93	34 - 111
Heptachlor epoxide	0.200	0.176		ug/L		88	37 - 142
Endrin ketone	0.200	0.188	p	ug/L		94	50 - 150
alpha-Chlordane	0.200	0.174		ug/L		87	50 - 150
gamma-Chlordane	0.200	0.173		ug/L		86	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	88		44 - 123
DCB Decachlorobiphenyl	82		37 - 156

Lab Sample ID: LCS 580-136886/4-A

Matrix: Water

Analysis Batch: 136948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	1.00	1.11		ug/L		111	50 - 114
Aroclor 1260	1.00	1.14		ug/L		114	8 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	114		44 - 123
DCB Decachlorobiphenyl	120		37 - 156

Lab Sample ID: LCSD 580-136886/3-A

Matrix: Water

Analysis Batch: 136953

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 136886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.200	0.173		ug/L		87	42 - 122	1	26
alpha-BHC	0.200	0.172		ug/L		86	37 - 134	5	24
beta-BHC	0.200	0.180		ug/L		90	17 - 147	0	27
delta-BHC	0.200	0.178	p	ug/L		89	19 - 140	2	32
gamma-BHC (Lindane)	0.200	0.182		ug/L		91	32 - 127	0	27
4,4'-DDD	0.200	0.181	p	ug/L		91	31 - 141	2	35

TestAmerica Seattle

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Method: 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 580-136886/3-A

Matrix: Water

Analysis Batch: 136953

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 136886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
4,4'-DDE	0.200	0.177		ug/L		89	30 - 145	0	32	
4,4'-DDT	0.200	0.177	p	ug/L		88	25 - 160	2	34	
Dieldrin	0.200	0.185		ug/L		92	36 - 146	2	30	
Endosulfan I	0.200	0.245		ug/L		123	45 - 153	1	27	
Endosulfan II	0.200	0.258	P	ug/L		129	0.1 - 202	3	31	
Endosulfan sulfate	0.200	0.261	^	ug/L		131	26 - 144	4	32	
Endrin	0.200	0.198		ug/L		99	30 - 147	2	31	
Endrin aldehyde	0.200	0.187		ug/L		93	50 - 150	1	35	
Heptachlor	0.200	0.187		ug/L		93	34 - 111	0	25	
Heptachlor epoxide	0.200	0.177		ug/L		88	37 - 142	0	26	
Endrin ketone	0.200	0.195		ug/L		97	50 - 150	3	35	
alpha-Chlordane	0.200	0.175		ug/L		87	50 - 150	1	35	
gamma-Chlordane	0.200	0.173		ug/L		86	50 - 150	0	35	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	84		44 - 123
DCB Decachlorobiphenyl	71		37 - 156

Lab Sample ID: LCSD 580-136886/5-A

Matrix: Water

Analysis Batch: 136948

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 136886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Aroclor 1016	1.00	1.04		ug/L		104	50 - 114	6	50	
Aroclor 1260	1.00	1.10		ug/L		110	8 - 127	4	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	108		44 - 123
DCB Decachlorobiphenyl	106		37 - 156

Lab Chronicle

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Client Sample ID: SW03-052213-SCE

Lab Sample ID: 580-38690-1

Date Collected: 05/22/13 12:30

Matrix: Water

Date Received: 05/31/13 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136948	06/04/13 16:39	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136948	06/04/13 16:39	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136953	06/04/13 11:32	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136953	06/04/13 11:32	SH	TAL SEA

Client Sample ID: SW04-0502213-SCE

Lab Sample ID: 580-38690-2

Date Collected: 05/22/13 12:45

Matrix: Water

Date Received: 05/31/13 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136948	06/04/13 16:53	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136948	06/04/13 16:53	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136953	06/04/13 11:50	SH	TAL SEA
Total/NA	Prep	CWA_Prep			136886	06/03/13 11:51	AW	TAL SEA
Total/NA	Analysis	608		1	136953	06/04/13 11:50	SH	TAL SEA

Laboratory References:

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

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-13
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

Sample Summary

Client: CH2M Hill, Inc.
Project/Site: Testing

TestAmerica Job ID: 580-38690-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-38690-1	SW03-052213-SCE	Water	05/22/13 12:30	05/31/13 10:50
580-38690-2	SW04-0502213-SCE	Water	05/22/13 12:45	05/31/13 10:50

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



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: M1935
 Date Received: 05/23/13
 Contacts: Kathy McKinley (asl@ch2m.com) Kathy McKinley (kathy.mckinley@ch2m.com)
 Hazardous: No

Billing Information:
 Reference Project Number: 163160.AS.OS

Report Information:
 Reporting Address: CH2M HILL Applied Sciences Laboratory, 1100 NE Circle Blvd, Suite 300, Corvallis, OR 97330
 Report Due: ~~06/02/13~~ **QA Level: 2**

Special Instructions: 06/05/13

Sample ID	Lab ID	Sample Date/Time	Method	Requested Test	Date Due	Matrix
SW03-052213-SCE	M193501	05/22/13 12:30	E608	Pest/PCB	06/03/13	Water
SW04-0502213-SCE	M193502	05/22/13 12:45	E608	Pest/PCB	06/03/13	Water

Okay to continue past holding time.



580-38690 Chain of

*Log Blw/cub
Feds wet/cub
IR = 44/4.8 w/c5*

Relinquished By <i>Berman Boll</i>	Date/Time <i>5/29/13 1705</i>	Received By <i>Tom Blank</i>	Date/Time <i>5/31/13 1050</i>
Relinquished By	Date/Time	Received By <i>Blank Kinship</i>	Date/Time

Printed 05/30/2013

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 580-38690-1

Login Number: 38690

List Source: TestAmerica Seattle

List Number: 1

Creator: Balles, Racheal

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	Refer to Job Narrative for details.
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	