MONITORING PROGRAM ANNUAL REPORT

JANUARY - DECEMBER 2010

ANCHORAGE WATER AND WASTEWATER UTILITY

JOHN M. ASPLUND WATER POLLUTION CONTROL FACILITY
AT POINT WORONZOF

APPENDICES

Prepared for:

ANCHORAGE WATER & WASTEWATER UTILITY
AWU
MUNICIPALITY OF ANCHORAGE

Prepared by:

KINNETIC LABORATORIES INCORPORATED
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February 2011

APPENDICES

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Solar Environmental Services, Inc. and IATL

A3 Enterococci
AWWU Asplund Laboratory

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, July Sampling

A1 Oil & Grease, Cyanide, Metals, Priority Pollutants, Dioxin, Pesticides, and Hydrocarbons

SGS North America, Test America & Columbia Analytical Services

JULY SAMPLING, OIL & GREASE, CYANIDE, AND METALS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10O&G001	1103452001	INFLUENT	OIL & GREASE	SAMPLE
MOA10O&G002	1103452002	EFFLUENT	OIL & GREASE	SAMPLE
MOA10TCN009	1103452001	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN010	1103452002	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN011	1103452064	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN012	1103452065	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN013	1103452088	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN014	1103452089	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN021	K1007392-007	SLUDGE	TOTAL CYANIDE	SAMPLE
MOA10MET001	1103452001	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET002	1103452005	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET003	1103452002	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET004	1103452006	EFFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET005	1103452007	SLUDGE	TOTAL METALS	SAMPLE
MOA10MET006	1103452064	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET007	1103452066	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET008	1103452065	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET009	1103452067	EFFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET010	1103452088	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET011	1103452090	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET012	1103452089	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET013	1103452091	EFFLUENT	DISSOLVED METALS	SAMPLE

JULY SAMPLING, PRIORITY POLLUTANTS, DIOXIN, PESTICIDES, AND HYDROCARBONS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10VOP001 - 008	280-5616-1	INFLUENT	VOLATILE ORGANICS	SAMPLE (COMPOSITE)
MOA10VOP009 - 016	280-5616-2	EFFLUENT	VOLATILE ORGANICS	SAMPLE (COMPOSITE)
MOA10VOP017	280-5494-1	C-STATION	VOLATILE ORGANICS	FIELD BLANK
MOA10VOP018	280-5494-2	TRIP BLANK	VOLATILE ORGANICS	TRIP BLANK
MOA10VOP019	PGT 0439-01	SLUDGE	VOLATILE ORGANICS	SAMPLE
MOA10VOA008	110-345-2012	C-STATION	VOLATILE ORGANICS	FIELD BLANK
MOA10DXN001	G552-668-1C	INFLUENT	DIOXIN	SAMPLE
MOA10DXN002	G552-668-2C	EFFLUENT	DIOXIN	SAMPLE
MOA10DXN003	G552-668-3B	SLUDGE	DIOXIN	SAMPLE
MOA10SVL001	K1007392-005	INFLUENT	SEMI-VOLATILES	SAMPLE
MOA10SVL002	K1007392-006	EFFLUENT	SEMI-VOLATILES	SAMPLE
MOA10SVL003	K1007392-010	SLUDGE	SEMI-VOLATILES	SAMPLE
MOA10PCB001	1103452007	SLUDGE	PCB'S	SAMPLE
MOA10PES001	K1007392-003	INFLUENT	PESTICIDES	SAMPLE
MOA10PES002	K1007392-004	EFFLUENT	PESTICIDES	SAMPLE
MOA10PES003	K1007392-009	SLUDGE	PESTICIDES	SAMPLE
MOA10PST001	K1007392-001	INFLUENT	PESTICIDES	SAMPLE
MOA10PST002	K1007392-002	EFFLUENT	PESTICIDES	SAMPLE
MOA10PST003	K1007392-008	SLUDGE	PESTICIDES	SAMPLE

SGS North America Inc.
Alaska Division
Level II Laboratory Data Report

Project:	KLI Proj. #506.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1103452

Released by:

Contents (Bookmarked in PDF):

Cover Page
Case Narrative
Sample Results Forms
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms
Attachments (if applicable)

Case Narrative

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	9/16/2010	15:50
Workorder	1103452	KLI Proj. #506.01			

Sample ID **Client Sample ID**

Refer to the sample receipt form for information on sample condition.

1103452001 **PS** **Influent**

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
614 - Was analyzed at Columbia Analyical Serv. Kelso WA.
608 - Was analyzed at Columbia Analyical Serv. Kelso WA.
625 - Was analyzed at Columbia Analyical Serv. Kelso WA.

1103452002 **PS** **Effluent**

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
614 - Was analyzed at Columbia Analyical Serv. Kelso WA.
608 - Was analyzed at Columbia Analyical Serv. Kelso WA.
625 - Was analyzed at Columbia Analyical Serv. Kelso WA.
624 - Was analyzed at Columbia Analyical Serv. Kelso WA.

1103452003 ***BMS** **Effluent MS**

625 - Was analyzed at Columbia Analyical Serv. Kelso WA.

1103452004 ***BMSD** **Effluent MSD**

625 - Was analyzed at Columbia Analyical Serv. Kelso WA.

1103452007 **PS** **Sludge**

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
9010 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8270 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8081 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8141 - Was analyzed at Columbia Analyical Serv. Kelso WA.

1103452010 **PS** **F1-2S**

8260B - 1,2-Dichloroethane (surrogate) recovery does not meet QC criteria (biased high). Sample analyte associated with this surrogate were not detected above the LOQ.

1103452013 **PS** **C-Station**

624 - was analyzed at Test America in Arvada, CO.

1103452014 ***TB** **TRIP BLANK**

624 - was analyzed at Test America in Arvada, CO.

1103452032 ***BMSD** **Effluent MSD**

624 - Was analyzed at Columbia Analyical Serv. Kelso WA.

974436 ***MS** **Effluent(1103452067MS)**

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Case Narrative

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	9/16/2010	15:50
Workorder	1103452	KLI Proj. #506.01			

Sample ID	**Client Sample ID**

200.8 - Metals - MS recovery for silver is outside of acceptance criteria. Post-digestion spike was successful.

974464 *** MS** **29111-CV-263(1103423001MS)**

6020 - Metals - MS/MSD recoveries for multiple analytes were outside of acceptance criteria (biased low/high). Post digestion spike was successful.

974465 *** MSD** **29111-CV-263(1103423001MSD)**

6020 - Metals - MS/MSD recoveries for multiple analytes were outside of acceptance criteria (biased low/high). Post digestion spike was successful.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Laboratory Analysis Report

Gary Lawley
Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

Work Order:	1103452
	KLI Proj. #506.01
Client:	Kinnetic Laboratories, Inc.
Report Date:	September 16, 2010

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions (<http://www.sgs.com/terms_and_conditions.htm>), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6010B, 6020, 7470A, 7471B, 8021B, 8081B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, the National Environmental Laboratory Accreditation Program and other regulatory authorities. The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV	Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 2xDL)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

Detectable Results Summary

Print Date: 9/16/2010 3:50 pm

Client Sample ID: **Influent**
SGS Ref. #: 1103452001

Parameter	Result	Units
Metals by ICP/MS		
Cadmium	3.67	ug/L
Chromium	3.09	ug/L
Copper	61.7	ug/L
Lead	4.02	ug/L
Nickel	5.12	ug/L
Silver	1.38	ug/L
Zinc	175	ug/L
Waters Department		
Oil & Grease HEM	47.0	mg/L

Client Sample ID: **Effluent**
SGS Ref. #: 1103452002

Parameter	Result	Units
Metals by ICP/MS		
Cadmium	0.660	ug/L
Copper	82.9	ug/L
Lead	2.38	ug/L
Nickel	3.62	ug/L
Zinc	118	ug/L
Waters Department		
Oil & Grease HEM	35.5	mg/L

Client Sample ID: **Influent**
SGS Ref. #: 1103452005

Parameter	Result	Units
Metals Department		
Mercury	0.243	ug/L
Dissolved Metals by ICP/MS		
Lead	0.760	ug/L
Nickel	3.31	ug/L
Zinc	33.3	ug/L
Copper	24.8	ug/L

Detectable Results Summary

Print Date: 9/16/2010 3:50 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1103452006

Parameter	Result	Units
Metals Department		
Mercury	0.302	ug/L
Dissolved Metals by ICP/MS		
Lead	0.964	ug/L
Nickel	3.73	ug/L
Zinc	75.3	ug/L
Copper	48.0	ug/L

Client Sample ID: **Sludge**
SGS Ref. #: 1103452007

Parameter	Result	Units
Metals by ICP/MS		
Antimony	1.68	mg/Kg
Arsenic	5.53	mg/Kg
Cadmium	1.26	mg/Kg
Chromium	13.6	mg/Kg
Copper	207	mg/Kg
Lead	19.3	mg/Kg
Molybdenum	5.91	mg/Kg
Nickel	12.0	mg/Kg
Selenium	2.95	mg/Kg
Silver	6.78	mg/Kg
Zinc	610	mg/Kg

Client Sample ID: **F1-1S**
SGS Ref. #: 1103452009

Parameter	Result	Units
Volatile Gas Chromatography/Mass Spectroscopy		
Toluene	2.10	ug/L

Client Sample ID: **F1-3S**
SGS Ref. #: 1103452011

Parameter	Result	Units
Volatile Gas Chromatography/Mass Spectroscopy		
Benzene	0.540	ug/L
Toluene	1.37	ug/L

Client Sample ID: **Influent**
SGS Ref. #: 1103452064

Parameter	Result	Units
Metals by ICP/MS		
Chromium	3.00	ug/L
Copper	58.0	ug/L
Lead	3.71	ug/L
Nickel	6.02	ug/L
Zinc	159	ug/L

Detectable Results Summary

Print Date: 9/16/2010 3:50 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1103452065

Metals by ICP/MS

Parameter	Result	Units
Copper	49.2	ug/L
Lead	1.96	ug/L
Nickel	4.47	ug/L
Zinc	101	ug/L

Client Sample ID: **Influent**
SGS Ref. #: 1103452066

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.915	ug/L
Nickel	3.73	ug/L
Zinc	28.4	ug/L
Copper	26.4	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1103452067

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.993	ug/L
Nickel	3.89	ug/L
Zinc	70.9	ug/L
Copper	32.6	ug/L

Client Sample ID: **C2-2S(C)**
SGS Ref. #: 1103452075

Waters Department

Parameter	Result	Units
Color	5.00	PCU

Client Sample ID: **Influent**
SGS Ref. #: 1103452088

Metals by ICP/MS

Parameter	Result	Units
Chromium	4.85	ug/L
Copper	69.5	ug/L
Lead	8.02	ug/L
Nickel	7.20	ug/L
Silver	2.19	ug/L
Zinc	183	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1103452089

Metals by ICP/MS

Parameter	Result	Units
Copper	61.4	ug/L
Lead	3.79	ug/L
Nickel	4.29	ug/L
Zinc	130	ug/L

Detectable Results Summary

Print Date: 9/16/2010 3:50 pm

Client Sample ID: **Influent**

SGS Ref. #: 1103452090

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	1.79	ug/L
Nickel	3.57	ug/L
Zinc	34.3	ug/L
Copper	23.5	ug/L

Client Sample ID: **Effluent**

SGS Ref. #: 1103452091

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	1.93	ug/L
Nickel	3.73	ug/L
Zinc	85.3	ug/L
Copper	46.7	ug/L

SGS Ref.#	1103452001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 6:00
Client Sample ID	Influent	**Received Date/Time**	07/14/2010 13:49
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
614 - Was analyzed at Columbia Analyical Serv. Kelso WA.
608 - Was analyzed at Columbia Analyical Serv. Kelso WA.
625 - Was analyzed at Columbia Analyical Serv. Kelso WA.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	J		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Cadmium	3.67	0.500	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Chromium	3.09	2.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Copper	61.7	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Lead	4.02	0.200	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Nickel	5.12	2.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Silver	1.38	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Zinc	175	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF
Oil & Grease HEM	47.0	4.19	mg/L	EPA 1664A	D		07/22/10	07/22/10	RTS

SGS Ref.#	1103452002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 6:00
Client Sample ID	Effluent	**Received Date/Time**	07/14/2010 13:49
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
614 - Was analyzed at Columbia Analyical Serv. Kelso WA.
608 - Was analyzed at Columbia Analyical Serv. Kelso WA.
625 - Was analyzed at Columbia Analyical Serv. Kelso WA.
624 - Was analyzed at Columbia Analyical Serv. Kelso WA.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	J		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Cadmium	0.660	0.500	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Copper	82.9	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Lead	2.38	0.200	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Nickel	3.62	2.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Zinc	118	5.00	ug/L	EP200.8	J		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF
Oil & Grease HEM	35.5	4.17	mg/L	EPA 1664A	D		07/22/10	07/22/10	RTS

SGS Ref.#	1103452005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 6:00
Client Sample ID	Influent	**Received Date/Time**	07/14/2010 13:49
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.243	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	24.8	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	0.760	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.31	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	33.3	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	1103452006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 6:00
Client Sample ID	Effluent	**Received Date/Time**	07/14/2010 13:49
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.302	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	48.0	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	0.964	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.73	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	75.3	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	1103452007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 5:50
Client Sample ID	Sludge	**Received Date/Time**	07/14/2010 13:49
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8290 - Dioxins were analyzed by SGS of Wilmington, NC.
9010 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8270 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8081 - Was analyzed at Columbia Analyical Serv. Kelso WA.
8141 - Was analyzed at Columbia Analyical Serv. Kelso WA.

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP/MS									
Antimony	1.68	0.314	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Arsenic	5.53	3.14	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Beryllium	0.314 U	0.314	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Cadmium	1.26	0.627	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Chromium	13.6	1.25	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Copper	207	1.88	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Lead	19.3	0.627	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Molybdenum	5.91	3.14	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Nickel	12.0	0.627	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Selenium	2.95	1.57	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Silver	6.78	0.314	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Thallium	0.0627 U	0.0627	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Zinc	610	3.14	mg/Kg	SW6020	F		07/19/10	07/23/10	KDC
Polychlorinated Biphenyls									
Aroclor-1016	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1221	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1232	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1242	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1248	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1254	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS
Aroclor-1260	164 U	164	ug/Kg	SW8082A	F		07/19/10	07/23/10	RTS

Surrogates

SGS Ref.#	1103452007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 5:50
Client Sample ID	Sludge	**Received Date/Time**	07/14/2010 13:49
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Polychlorinated Biphenyls									
Decachlorobiphenyl <surr>	95.7		%	SW8082A	F	60-125	07/19/10	07/23/10	RTS
Solids									
Total Solids	30.0		%	SM20 2540G	F			07/16/10	AHJ

SGS Ref.#	1103452064		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/15/2010 6:00
Client Sample ID	Influent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	B		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Chromium	3.00	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Copper	58.0	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Lead	3.71	0.200	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Nickel	6.02	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Zinc	159	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF

SGS Ref.#	1103452065		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/15/2010 6:00
Client Sample ID	Effluent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	B		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Copper	49.2	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Lead	1.96	0.200	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Nickel	4.47	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Zinc	101	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF

SGS Ref.#	1103452066		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/15/2010 6:00
Client Sample ID	Influent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	26.4	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	0.915	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.73	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	28.4	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	1103452067		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/15/2010 6:00
Client Sample ID	Effluent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	32.6	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	0.993	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.89	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	70.9	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	1103452088		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 10:45
Client Sample ID	Influent	**Received Date/Time**	07/16/2010 12:30
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	B		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Chromium	4.85	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Copper	69.5	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Lead	8.02	0.200	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Nickel	7.20	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Silver	2.19	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Zinc	183	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF

SGS Ref.#	1103452089		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 10:30
Client Sample ID	Effluent	**Received Date/Time**	07/16/2010 12:30
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	B		07/22/10	07/23/10	KAR
Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Copper	61.4	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Lead	3.79	0.200	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Nickel	4.29	2.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Zinc	130	5.00	ug/L	EP200.8	B		07/16/10	07/21/10	NRB
Waters Department									
Cyanide	0.0050 U	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/21/10	07/21/10	ACF

SGS Ref.#	1103452090		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 10:45
Client Sample ID	Influent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	23.5	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	1.79	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.57	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	34.3	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	1103452091		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/16/2010 15:50
Project Name/#	KLI Proj. #506.01	**Collected Date/Time**	07/14/2010 10:30
Client Sample ID	Effluent	**Received Date/Time**	07/15/2010 13:10
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	LOQ	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	0.200 U	0.200	ug/L	EP245.1	A		07/22/10	07/23/10	KAR
Dissolved Metals by ICP/MS									
Antimony	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Arsenic	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Beryllium	0.400 U	0.400	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Cadmium	0.500 U	0.500	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Chromium	2.00 U	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Copper	46.7	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Lead	1.93	0.200	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Molybdenum	10.0 U	10.0	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Nickel	3.73	2.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Selenium	5.00 U	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Silver	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Thallium	1.00 U	1.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB
Zinc	85.3	5.00	ug/L	EP200.8	B		07/19/10	07/27/10	NRB

SGS Ref.#	974040 Method Blank	**Printed Date/Time**	09/16/2010 15:50	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23238
Project Name/#	KLI Proj. #506.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	07/16/2010

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.620 U	1.00	0.310	ug/L	07/21/10
Arsenic	5.00 U	5.00	2.50	ug/L	07/21/10
Beryllium	0.260 U	0.400	0.130	ug/L	07/21/10
Cadmium	0.300 U	0.500	0.150	ug/L	07/21/10
Chromium	1.24 U	2.00	0.620	ug/L	07/21/10
Copper	0.620 U	1.00	0.310	ug/L	07/21/10
Lead	0.124 U	0.200	0.0620	ug/L	07/21/10
Molybdenum	6.20 U	10.0	3.10	ug/L	07/21/10
Nickel	1.24 U	2.00	0.620	ug/L	07/21/10
Selenium	3.00 U	5.00	1.50	ug/L	07/21/10
Silver	0.620 U	1.00	0.310	ug/L	07/21/10
Thallium	0.620 U	1.00	0.310	ug/L	07/21/10
Zinc	5.00 U	5.00	2.50	ug/L	07/21/10

Batch MMS6540
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974191	Method Blank	**Printed Date/Time**	09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	KLI Proj. #506.01			**Method**
Matrix	Soil/Solid (dry weight)			**Date**

QC results affect the following production samples:

1103452007

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Solids					
Total Solids	100			%	07/16/10
Batch	SPT8184				
Method	SM20 2540G				
Instrument					

SGS Ref.#	974341	Method Blank	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX23080
Project Name/#	KLI Proj. #506.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	07/19/2010

QC results affect the following production samples:

1103452007

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Polychlorinated Biphenyls					
Aroclor-1016	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1221	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1232	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1242	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1248	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1254	30.0 U	50.0	15.0	ug/Kg	07/23/10
Aroclor-1260	30.0 U	50.0	15.0	ug/Kg	07/23/10
Surrogates					
Decachlorobiphenyl <surr>	93.2	60-125		%	07/23/10

Batch XGC7077

Method SW8082A

Instrument HP 5890 Series II ECD SV I R

SGS Ref.#	974434 Method Blank	**Printed Date/Time**	09/16/2010 15:50	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23245
Project Name/#	KLI Proj. #506.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	07/19/2010

QC results affect the following production samples:

1103452066, 1103452067, 1103452090, 1103452091

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.620 U	1.00	0.310	ug/L	07/27/10
Arsenic	5.00 U	5.00	2.50	ug/L	07/27/10
Beryllium	0.260 U	0.400	0.130	ug/L	07/27/10
Cadmium	0.300 U	0.500	0.150	ug/L	07/27/10
Chromium	1.24 U	2.00	0.620	ug/L	07/27/10
Copper	0.620 U	1.00	0.310	ug/L	07/27/10
Lead	0.124 U	0.200	0.0620	ug/L	07/27/10
Molybdenum	6.20 U	10.0	3.10	ug/L	07/27/10
Nickel	1.24 U	2.00	0.620	ug/L	07/27/10
Selenium	3.00 U	5.00	1.50	ug/L	07/27/10
Silver	0.620 U	1.00	0.310	ug/L	07/27/10
Thallium	0.620 U	1.00	0.310	ug/L	07/27/10
Zinc	5.00 U	5.00	2.50	ug/L	07/27/10

Batch	MMS6557
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974442 Method Blank	**Printed Date/Time**	09/16/2010 15:50	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23246
Project Name/#	KLI Proj. #506.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	07/19/2010

QC results affect the following production samples:

1103452005, 1103452006

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.620 U	1.00	0.310	ug/L	07/27/10
Arsenic	5.00 U	5.00	2.50	ug/L	07/27/10
Beryllium	0.260 U	0.400	0.130	ug/L	07/27/10
Cadmium	0.300 U	0.500	0.150	ug/L	07/27/10
Chromium	1.24 U	2.00	0.620	ug/L	07/27/10
Copper	0.620 U	1.00	0.310	ug/L	07/27/10
Lead	0.124 U	0.200	0.0620	ug/L	07/27/10
Molybdenum	6.20 U	10.0	3.10	ug/L	07/27/10
Nickel	1.24 U	2.00	0.620	ug/L	07/27/10
Selenium	3.00 U	5.00	1.50	ug/L	07/27/10
Silver	0.620 U	1.00	0.310	ug/L	07/27/10
Thallium	0.620 U	1.00	0.310	ug/L	07/27/10
Zinc	5.00 U	5.00	2.50	ug/L	07/27/10

Batch MMS6557

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974462 Method Blank	**Printed Date/Time**	09/16/2010 15:50	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23248
Project Name/#	KLI Proj. #506.01		**Method**	SW3050B
Matrix	Soil/Solid (dry weight)		**Date**	07/19/2010

QC results affect the following production samples:

1103452007

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.0620 U	0.100	0.0310	mg/Kg	07/23/10
Arsenic	0.620 U	1.00	0.310	mg/Kg	07/23/10
Beryllium	0.0620 U	0.100	0.0310	mg/Kg	07/23/10
Cadmium	0.124 U	0.200	0.0620	mg/Kg	07/23/10
Chromium	0.240 U	0.400	0.120	mg/Kg	07/23/10
Copper	0.360 U	0.600	0.180	mg/Kg	07/23/10
Lead	0.124 U	0.200	0.0620	mg/Kg	07/23/10
Molybdenum	0.620 U	1.00	0.310	mg/Kg	07/23/10
Nickel	0.124 U	0.200	0.0620	mg/Kg	07/23/10
Selenium	0.300 U	0.500	0.150	mg/Kg	07/23/10
Silver	0.0620 U	0.100	0.0310	mg/Kg	07/23/10
Thallium	0.0124 U	0.0200	0.00620	mg/Kg	07/23/10
Zinc	0.620 U	1.00	0.310	mg/Kg	07/23/10

Batch MMS6546
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	975636	Method Blank	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	POGX2329
Project Name/#	KLI Proj. #506.01			**Method**	EXT_1664OG
Matrix	Water (Surface, Eff., Ground)			**Date**	07/22/2010

QC results affect the following production samples:

1103452001, 1103452002

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Oil & Grease HEM	1.30J	4.00	1.20	mg/L	07/22/10
Batch POG2509					
Method EPA 1664A					
Instrument					

SGS Ref.#	976003	Method Blank	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23274
Project Name/#	KLI Proj. #506.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	07/22/2010

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	0.124 U	0.200	0.0620	ug/L	07/23/10
Batch	MCV4586				
Method	EP245.1				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	976012	Method Blank	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23274
Project Name/#	KLI Proj. #506.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	07/22/2010

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	0.124 U	0.200	0.0620	ug/L	07/23/10
Batch	MCV4586				
Method	EP245.1				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	976070	Method Blank	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7970
Project Name/#	KLI Proj. #506.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	07/21/2010

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Cyanide	0.00300 U	0.0050	0.0015	mg/L	07/21/10

Batch WDA1977
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	974192	Duplicate	**Printed Date/Time**	09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	KLI Proj. #506.01			**Method**
Original	1103475001			**Date**
Matrix	Soil/Solid (dry weight)			

QC results affect the following production samples:

1103452007

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	88.7	88.4	%	0	(< 15)	07/16/2010

Batch SPT8184
Method SM20 2540G
Instrument

SGS Ref.#	976073	Duplicate	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7970
Project Name/#	KLI Proj. #506.01			**Method**	EXT/CN4500
Original	1103482001			**Date**	7/21/2010 11:15:00AM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.00300 U	0.00300 U	mg/L	0	(< 25)	07/21/2010

Batch WDA1977
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	976075	Duplicate	**Printed Date/Time**		09/16/2010 15:50
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7970
Project Name/#	KLI Proj. #506.01			**Method**	EXT/CN4500
Original	1103505010			**Date**	7/21/2010 11:15:00AM
Matrix	Drinking Water				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.00300 U	0.00300 U	mg/L	0	(< 25)	07/21/2010

Batch WDA1977
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	974041	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23238	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	KLI Proj. #506.01		**Date**	07/16/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	1060	106	(85-115)			1000 ug/L	07/21/2010
Arsenic	LCS	1010	101	(85-115)			1000 ug/L	07/21/2010
Beryllium	LCS	113	113	(85-115)			100 ug/L	07/21/2010
Cadmium	LCS	106	106	(85-115)			100 ug/L	07/21/2010
Chromium	LCS	397	99	(85-115)			400 ug/L	07/21/2010
Copper	LCS	1030	103	(85-115)			1000 ug/L	07/21/2010
Lead	LCS	1090	109	(85-115)			1000 ug/L	07/21/2010
Molybdenum	LCS	384	96	(85-115)			400 ug/L	07/21/2010
Nickel	LCS	1040	104	(85-115)			1000 ug/L	07/21/2010
Selenium	LCS	1060	106	(85-115)			1000 ug/L	07/21/2010
Silver	LCS	104	104	(85-115)			100 ug/L	07/21/2010
Thallium	LCS	10.0	100	(85-115)			10 ug/L	07/21/2010
Zinc	LCS	1060	106	(85-115)			1000 ug/L	07/21/2010

Batch	MMS6540
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974342	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	XXX23080	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1103452007

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polychlorinated Biphenyls								
Aroclor-1016	LCS	191	86	(58-122)			222 ug/Kg	07/23/2010
Aroclor-1260	LCS	264	119	(61-130)			222 ug/Kg	07/23/2010
Surrogates								
Decachlorobiphenyl <surr>	LCS		94	(60-125)				07/23/2010

Batch	XGC7077
Method	SW8082A
Instrument	HP 5890 Series II ECD SV I R

SGS Ref.#	974435	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23245	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452066, 1103452067, 1103452090, 1103452091

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	1010	101	(85-115)			1000 ug/L	07/27/2010
Arsenic	LCS	969	97	(85-115)			1000 ug/L	07/27/2010
Beryllium	LCS	99.0	99	(85-115)			100 ug/L	07/27/2010
Cadmium	LCS	99.6	100	(85-115)			100 ug/L	07/27/2010
Chromium	LCS	396	99	(85-115)			400 ug/L	07/27/2010
Copper	LCS	1000	100	(85-115)			1000 ug/L	07/27/2010
Lead	LCS	1020	102	(85-115)			1000 ug/L	07/27/2010
Molybdenum	LCS	384	96	(85-115)			400 ug/L	07/27/2010
Nickel	LCS	1020	102	(85-115)			1000 ug/L	07/27/2010
Selenium	LCS	1020	102	(85-115)			1000 ug/L	07/27/2010
Silver	LCS	101	101	(85-115)			100 ug/L	07/27/2010
Thallium	LCS	10.1	101	(85-115)			10 ug/L	07/27/2010
Zinc	LCS	1000	100	(85-115)			1000 ug/L	07/27/2010

Batch	MMS6557
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974443	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23246	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452005, 1103452006

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	960	96	(85-115)			1000 ug/L	07/27/2010
Arsenic	LCS	921	92	(85-115)			1000 ug/L	07/27/2010
Beryllium	LCS	91.9	92	(85-115)			100 ug/L	07/27/2010
Cadmium	LCS	95.2	95	(85-115)			100 ug/L	07/27/2010
Chromium	LCS	374	93	(85-115)			400 ug/L	07/27/2010
Copper	LCS	972	97	(85-115)			1000 ug/L	07/27/2010
Lead	LCS	978	98	(85-115)			1000 ug/L	07/27/2010
Molybdenum	LCS	364	91	(85-115)			400 ug/L	07/27/2010
Nickel	LCS	957	96	(85-115)			1000 ug/L	07/27/2010
Selenium	LCS	954	95	(85-115)			1000 ug/L	07/27/2010
Silver	LCS	95.7	96	(85-115)			100 ug/L	07/27/2010
Thallium	LCS	9.32	93	(85-115)			10 ug/L	07/27/2010
Zinc	LCS	964	96	(85-115)			1000 ug/L	07/27/2010

Batch	MMS6557
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974463	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23248	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3050B	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1103452007

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	51.7	103	(80-120)			50 mg/Kg	07/23/2010
Arsenic	LCS	53.7	107	(80-120)			50 mg/Kg	07/23/2010
Beryllium	LCS	5.16	103	(80-120)			5 mg/Kg	07/23/2010
Cadmium	LCS	5.21	104	(80-120)			5 mg/Kg	07/23/2010
Chromium	LCS	20.5	102	(80-120)			20 mg/Kg	07/23/2010
Copper	LCS	52.4	105	(80-120)			50 mg/Kg	07/23/2010
Lead	LCS	56.0	112	(80-120)			50 mg/Kg	07/23/2010
Molybdenum	LCS	19.7	99	(80-120)			20 mg/Kg	07/23/2010
Nickel	LCS	51.3	103	(80-120)			50 mg/Kg	07/23/2010
Selenium	LCS	53.2	106	(80-120)			50 mg/Kg	07/23/2010
Silver	LCS	5.53	111	(80-120)			5 mg/Kg	07/23/2010
Thallium	LCS	0.580	116	(80-120)			0.5 mg/Kg	07/23/2010
Zinc	LCS	55.4	111	(80-120)			50 mg/Kg	07/23/2010

Batch	MMS6546
Method	SW6020
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	975637	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	POGX2329	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT_1664OG	
Project Name/#	KLI Proj. #506.01		**Date**	07/22/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Oil & Grease HEM	LCS	39.4	99	(78-114)			40 mg/L	07/22/2010

Batch	POG2509
Method	EPA 1664A
Instrument	

SGS Ref.#	976004	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23274	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	KLI Proj. #506.01		**Date**	07/22/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.15	104	(85-115)			4 ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976009	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23274	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	KLI Proj. #506.01		**Date**	07/22/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	3.89	97	(85-115)			4 ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976013	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
			Prep **Batch**	MXX23274	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	KLI Proj. #506.01		**Date**	07/22/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.03	101	(85-115)			4 ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976071	Lab Control Sample	**Printed Date/Time**	09/16/2010	15:50
	976072	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7970	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	KLI Proj. #506.01		**Date**	07/21/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.054	109	(75-125)			0.05 mg/L	07/21/2010
	LCSD	0.058	116		7	(< 25)	0.05 mg/L	07/21/2010

Batch	WDA1977
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	974044	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	MXX23238
				Method	DW Digest for Metals on ICP-M
				Date	07/16/2010
Original	1103446001				
Matrix	Drinking Water				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Arsenic	MS	(5.00) U	1020	102	(70-130)			1000	ug/L	07/21/2010

Batch MMS6540
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974343	Matrix Spike	**Printed Date/Time**	09/16/2010	15:50
	974344	Matrix Spike Duplicate	**Prep** **Batch**	XXX23080	
			Method	Sonication Extraction Soil SW8	
			Date	07/19/2010	
Original	1103492001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1103452007

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Polychlorinated Biphenyls											
Aroclor-1016		MS	(52.8) U	239	101	(58-122)			236	ug/Kg	07/23/2010
		MSD		270	114		12	(< 30)	236	ug/Kg	07/23/2010
Aroclor-1260		MS	(52.8) U	263	111	(61-130)			236	ug/Kg	07/23/2010
		MSD		278	118		6	(< 30)	236	ug/Kg	07/23/2010
Surrogates											
Decachlorobiphenyl <surr>		MS		201	85	(60-125)					07/23/2010
		MSD		210	89		4				07/23/2010

Batch	XGC7077
Method	SW8082A
Instrument	HP 5890 Series II ECD SV I R

SGS Ref.#	974436	Matrix Spike	**Printed Date/Time**	09/16/2010 15:50
			Prep **Batch**	MXX23245
			Method	DW Digest for Metals on ICP-M
			Date	07/19/2010
Original	1103452067			
Matrix	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

1103452066, 1103452067, 1103452090, 1103452091

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	(1.00) U	1100	110	(70-130)			1000	ug/L	07/27/2010
Arsenic	MS	(5.00) U	1060	106	(70-130)			1000	ug/L	07/27/2010
Beryllium	MS	(0.400) U	97.1	97	(70-130)			100	ug/L	07/27/2010
Cadmium	MS	(0.500) U	105	105	(70-130)			100	ug/L	07/27/2010
Chromium	MS	(2.00) U	398	99	(70-130)			400	ug/L	07/27/2010
Copper	MS	32.6	1070	104	(70-130)			1000	ug/L	07/27/2010
Lead	MS	0.993	1060	106	(70-130)			1000	ug/L	07/27/2010
Molybdenum	MS	(10.0) U	421	105	(70-130)			400	ug/L	07/27/2010
Nickel	MS	3.89	1040	103	(70-130)			1000	ug/L	07/27/2010
Selenium	MS	(5.00) U	1090	109	(70-130)			1000	ug/L	07/27/2010
Silver	MS	(1.00) U	50.6	51*	(70-130)			100	ug/L	07/27/2010
Thallium	MS	(1.00) U	10.1	101	(70-130)			10.0	ug/L	07/27/2010
Zinc	MS	70.9	1140	107	(70-130)			1000	ug/L	07/27/2010

Batch MMS6557
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974437	Bench Spike DIGESTED	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	MXX23245
				Method	DW Digest for Metals on ICP-M
				Date	07/19/2010
Original	1103452067				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452066, 1103452067, 1103452090, 1103452091

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Silver	BND	(1.00) U	31.5	101	(70-130)			31.3	ug/L	07/27/2010

Batch	MMS6557
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974444	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	MXX23246
				Method	DW Digest for Metals on ICP-M
				Date	07/19/2010
Original	1103452006				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452005, 1103452006

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	(1.00) U	1060	106	(70-130)			1000	ug/L	07/27/2010
Arsenic	MS	(5.00) U	1030	103	(70-130)			1000	ug/L	07/27/2010
Beryllium	MS	(0.400) U	95.1	95	(70-130)			100	ug/L	07/27/2010
Cadmium	MS	(0.500) U	103	103	(70-130)			100	ug/L	07/27/2010
Chromium	MS	(2.00) U	393	98	(70-130)			400	ug/L	07/27/2010
Copper	MS	48.0	1090	104	(70-130)			1000	ug/L	07/27/2010
Lead	MS	0.964	1050	105	(70-130)			1000	ug/L	07/27/2010
Molybdenum	MS	(10.0) U	408	102	(70-130)			400	ug/L	07/27/2010
Nickel	MS	3.73	1040	103	(70-130)			1000	ug/L	07/27/2010
Selenium	MS	(5.00) U	1070	107	(70-130)			1000	ug/L	07/27/2010
Silver	MS	(1.00) U	79.4	79	(70-130)			100	ug/L	07/27/2010
Thallium	MS	(1.00) U	9.17	92	(70-130)			10.0	ug/L	07/27/2010
Zinc	MS	75.3	1130	106	(70-130)			1000	ug/L	07/27/2010

Batch MMS6557
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	974464	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
	974465	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23248
				Method	Soils/Solids Digest for Metals b
				Date	07/19/2010
Original	1103423001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1103452007

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS											
Antimony		MS	1.12	52.6	102	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		51.7	99		2	(< 20)	51.2	mg/Kg	07/23/2010
Arsenic		MS	3.41	61.8	115	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		64.3	119		4	(< 20)	51.2	mg/Kg	07/23/2010
Beryllium		MS	(0.0638) U	4.61	91	(80-120)			5.05	mg/Kg	07/23/2010
		MSD		5.21	102		12	(< 20)	5.12	mg/Kg	07/23/2010
Cadmium		MS	0.343	5.20	96	(80-120)			5.05	mg/Kg	07/23/2010
		MSD		5.05	92		3	(< 20)	5.12	mg/Kg	07/23/2010
Chromium		MS	1.56	23.0	106	(80-120)			20.2	mg/Kg	07/23/2010
		MSD		24.7	113		7	(< 20)	20.5	mg/Kg	07/23/2010
Copper		MS	3.08	50.3	93	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		52.3	96		4	(< 20)	51.2	mg/Kg	07/23/2010
Lead		MS	0.0962J	47.7	94	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		48.9	95		3	(< 20)	51.2	mg/Kg	07/23/2010
Molybdenum		MS	(0.638) U	22.9	114	(80-120)			20.2	mg/Kg	07/29/2010
		MSD		24.0	117		4	(< 20)	20.5	mg/Kg	07/29/2010
Nickel		MS	23.4	73.3	99	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		76.5	104		4	(< 20)	51.2	mg/Kg	07/23/2010
Selenium		MS	0.299J	53.6	105	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		56.8	110		6	(< 20)	51.2	mg/Kg	07/23/2010
Silver		MS	(0.0638) U	4.92	97	(80-120)			5.05	mg/Kg	07/23/2010
		MSD		4.87	95		1	(< 20)	5.12	mg/Kg	07/23/2010
Thallium		MS	0.0122J	0.545	105	(80-120)			0.505	mg/Kg	07/23/2010
		MSD		0.555	106		2	(< 20)	0.512	mg/Kg	07/23/2010
Zinc		MS	91.3	137	91	(80-120)			50.5	mg/Kg	07/23/2010
		MSD		138	92		1	(< 20)	51.2	mg/Kg	07/23/2010

Batch	MMS6546
Method	SW6020
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	975639	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	POGX2329
				Method	Extraction for EPA 1664 O&G
				Date	07/22/2010
Original	1103461003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Oil & Grease HEM	MS	4.04J	42.1	88	(78-114)			43.5	mg/L	07/22/2010

Batch POG2509
Method EPA 1664A
Instrument

SGS Ref.#	976005	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
	976006	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23274
				Method	Digestion Mercury (W)
				Date	07/22/2010
Original	1103312029				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(0.200) U	8.35	104	(85-115)			8.00	ug/L	07/23/2010
		MSD		8.28	103		1	(< 15)	8.00	ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976014	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	MXX23274
				Method	Digestion Mercury (W)
				Date	07/22/2010
Original	1103452091				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	(0.200) U	7.74	97	(85-115)			8.00	ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976017	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
	976018	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23274
				Method	Digestion Mercury (W)
				Date	07/22/2010
Original	1103449004				
Matrix	Solid/Soil (Wet Weight)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452005, 1103452006, 1103452064, 1103452065, 1103452066, 1103452067, 1103452088, 1103452089, 1103452090, 1103452091

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(1.24) U	80.1	100	(85-115)			80.0	ug/L	07/23/2010
		MSD		79.3	99		1	(< 15)	80.0	ug/L	07/23/2010

Batch	MCV4586
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	976074	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	WXX7970
				Method	Cyanide Distillation Kone Lab
				Date	07/21/2010
Original	1103482001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department									
Cyanide	MS	(0.00300) U	.057	114	(75-125)			0.050 mg/L	07/21/2010

Batch WDA1977
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	976076	Matrix Spike	**Printed Date/Time**		09/16/2010 15:50
			Prep	**Batch**	WXX7970
				Method	Cyanide Distillation Kone Lab
				Date	07/21/2010
Original	1103505010				
Matrix	Drinking Water				

QC results affect the following production samples:

1103452001, 1103452002, 1103452064, 1103452065, 1103452088, 1103452089

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	(0.0050) U	.057	113	(75-125)			0.050	mg/L	07/21/2010

Batch WDA1977
Method SM20 4500-CN C,E
Instrument Konelab

Forest Taylor
SGS Environmental
200 W. Potter Dr.
Anchorage, AK 99518

Report Number: G552-668

Client Project:

Dear Forest Taylor,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America, Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager Aug 6-2010

Project Manager
Barbara Hager

Date

List of Qualifiers: Dioxin's

B Analyte was detected in the Lab Method Blank at a level above the Reporting Limit.

EDL "Estimated Detection Limit"

EMPC "Estimated Maximum Possible Concentration"

RL Report Limit

CL Control Limit

U Undetected

ppt Parts-per-trillion (pg/g; ng/L)

V Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit.

Outside quality control limits

* Indicates that the ion-ratio fails high or low; analyte reported as an EMPC

An average uncertainty of 30% can be routinely achieved as concluded from the evaluation of HRGC-HRMS standard operating procedures. The following flags warn the data user of situations where the uncertainty may be greater than stated.

A Amount detected is less than the Lower Method Calibration Limit.

J Amount detected is between the Method Detection Limit and the Lower Calibration Limit.

O The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high.

E Amount detected is greater than the Upper Calibration Limit.

S The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s).

Q Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s).

I Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s).

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s).

Method 8280

M0A10DXN001

SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	1.03				

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	38.8	77.6	27:02	0.80	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	19.4	77.6	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.79	

Client Information

Project Name:

Sample ID: M0A10DXN001

Laboratory Information

Project ID: G552-668

Sample ID: G552-668-1C

Collection Date/Time: 14-Jul-10 06:00

Receipt Date: 16-Jul-10

Extraction Date: 22-Jul-10

Analysis Date: 04-Aug-10 21:54

Sample Information

Matrix: Water

Weight / Volume: 974 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG18293

Filename: 0804507

Retchk: 0804501

Begin ConCal: 0804502

End ConCal: 0804514

Initial Cal: m8280-5031010

Analyzed by: JNP

Date: 080610

Reviewed by: CD

Date: 8/10/10

Method 8280

M0A10DXN002

SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	1.04				

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	41.9	83.8	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	20.4	81.6	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.80	

Client Information

Project Name:

Sample ID: M0A10DXN002

Laboratory Information

Project ID: G552-668

Sample ID: G552-668-2C

Collection Date/Time: 14-Jul-10 06:00

Receipt Date: 16-Jul-10

Extraction Date: 22-Jul-10

Analysis Date: 04-Aug-10 22:36

Sample Information

Matrix: Water

Weight / Volume: 957 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG18293

Filename: 0804508

Retchk: 0804501

Begin ConCal: 0804502

End ConCal: 0804514

Initial Cal: m8280-5031010

Analyzed by: DWP

Date: 08/06/10

Reviewed by: [illegible]

Date: 8/10/10

Method 8280

M0A10DXN003

SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	314				

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	42.0	84.0	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.7	86.8	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.79	

Client Information

Project Name:

Sample ID: M0A10DXN003

Sample Information

Matrix:	Sludge	
Weight / Volume:	10.81	Grams
Solids / Lipids:	29.4	%
Original pH :	NA	
Batch ID:	WG18297	

Laboratory Information

Project ID:	G552-668			
Sample ID:	G552-668-3B		Filename:	0730507
Collection Date/Time:	14-Jul-10	05:50	Retchk:	0730501
Receipt Date:	16-Jul-10		Begin ConCal:	0730502
Extraction Date:	25-Jul-10		End ConCal:	0730517
Analysis Date:	30-Jul-10	20:55	Initial Cal:	m8280-5031010

Analyzed by: [signature]
Date: 080610

Reviewed by: [signature]
Date: 8/10/10

SGS Environmental Services

Method 8280LMB

LMB

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	1.00				

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	20.4	40.8	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	10.2	40.8	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.79	

Sample Information

Matrix:	Water	
Weight / Volume:	1000	mL
Solids / Lipids:	NA	%
Original pH :	5	
Batch ID:	WG18293	

Laboratory Information

Sample ID:	LMB18293		Filename:	0804506
			Retchk:	0804501
			Begin ConCal:	0804502
Extraction Date:	22-Jul-10		End ConCal:	0804514
Analysis Date:	04-Aug-10	21:13	Initial Cal:	m8280-5031010

Analyzed by: JWP
Date: 080610

Reviewed by: [illegible]
Date: 8/6/10

Analytical Results
for
Ongoing Precision Result (OPR)

Analytical Data Summary Sheet

Analyte	Spiked (ng/L)	AMT (ng/L)	REC %	Range % Lower	Range % Upper	FLAG
2,3,7,8-TCDD	10.0	10.3	103	70.0	130	

QC Information		**File Information**	
OPR Project No:	OPR18293	OPR Filename :	0804504
Extraction Date:	22-Jul-10	Retchk:	0804501
Analysis Date:	04-Aug-10	Begin ConCal:	0804502
Method:	8280	End ConCal:	0804514
		Initial Cal:	m8280-5031010
Sample Information			
Matrix:	Aqueous		

Method 8280
OPR

Recovery Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	42.9	85.8	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	20.8	83.2	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.80	

QC Information

OPR Project No:	OPR18293
Extraction Date:	22-Jul-10
Analysis Date:	04-Aug-10
Method:	8280

File Information

OPR Filename :	0804504
Retchk:	0804501
Begin ConCal:	0804502
End ConCal:	0804514
Initial Cal:	m8280-5031010

Sample Information

Matrix: Aqueous

Analyzed by: [illegible]
Date: 080604

Reviewed by: MD
Date: 8/4/10

Analytical Results
for
Ongoing Precision Result Duplicate (OPRD)

Analyte	Spiked (ng/L)	AMT (ng/L)	REC %	#	Range % Lower	Range % Upper	OPR Rec (%)	#	RPD	#	Qualifier
2,3,7,8-TCDD	10.0	10.4	104		70.0	130	103 ✓		0.966		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No:	OPRD18293
Extraction Date:	22-Jul-10
Analysis Date:	04-Aug-10
Method:	8280

File Information

OPRD Filename :	0804505
Retchk:	0804501
Begin ConCal:	0804502
End ConCal:	0804514
Initial Cal:	m8280-5031010

Sample Information

Matrix: Aqueous

Analytical Results
for
Ongoing Precision Result (OPRD)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	34.9	69.8	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	17.8	71.2	27:02	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.80	

QC Information

OPRD Project No: OPRD18293
Extraction Date: 22-Jul-10
Analysis Date: 04-Aug-10
Method: 8280

File Information

OPRD Filename : 0804505
Retchk: 0804501
Begin ConCal: 0804502
End ConCal: 0804514
Initial Cal: m8280-5031010

Sample Information

Matrix: Aqueous

Analyzed by: [illegible]
Date: 080610

Reviewed by: [illegible]
Date: 8/11/10

SGS Environmental Services

Method 8280LMB

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	100				

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	42.3	84.6	27:01	0.81	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	22.0	88.0	27:01		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.79	

Sample Information

Report Basis:	Dry Weight	
Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100.0	%
Original pH :	NA	
Batch ID:	WG18297	

Laboratory Information

Sample ID:	LMB18297	Filename:	0730506
		Retchk:	0730501
		Begin ConCal:	0730502
Extraction Date:	25-Jul-10	End ConCal:	0730517
Analysis Date:	30-Jul-10 20:13	Initial Cal:	m8280-5031010

Analyzed by: JW
Date: 08/06/10

Reviewed by: [illegible]
Date: 8/4/10

Analytical Results
for
Ongoing Precision Result (OPR)

Analytical Data Summary Sheet

Analyte	Spiked (pg/g)	AMT (pg/g)	REC %	Range % Lower	Range % Upper	FLAG
2,3,7,8-TCDD	1000	1060	106	70.0	130	

QC Information		**File Information**	
OPR Project No:	OPR18297	OPR Filename :	0730504
Extraction Date:	25-Jul-10	Retchk:	0730501
Analysis Date:	30-Jul-10	Begin ConCal:	0730502
Method:	8280	End ConCal:	0730517
		Initial Cal:	m8280-5031010
Sample Information			
Matrix:	Soil		

Method 8280
OPR

Recovery Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	42.1	84.2	27:02	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.4	85.6	27:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:39	0.80	

QC Information

OPR Project No:	OPR18297
Extraction Date:	25-Jul-10
Analysis Date:	30-Jul-10
Method:	8280

File Information

OPR Filename :	0730504
Retchk:	0730501
Begin ConCal:	0730502
End ConCal:	0730517
Initial Cal:	m8280-5031010

Sample Information

Matrix: Soil

Analyzed by: [illegible]
Date: 080610

Reviewed by: [illegible]
Date: 8/10/10

Analytical Results
for
Ongoing Precision Result Duplicate (OPRD)

Analyte	Spiked (pg/g)	AMT (pg/g)	REC %	#	Range % Lower	Range % Upper	OPR Rec (%)	#	RPD	#	Qualifier
2,3,7,8-TCDD	1000	1070	107		70.0	130	106		0.9		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No:	OPRD18297
Extraction Date:	25-Jul-10
Analysis Date:	30-Jul-10
Method:	8280

Sample Information

Matrix:	Soil

File Information

OPRD Filename :	0730505
Retchk:	0730501
Begin ConCal:	0730502
End ConCal:	0730517
Initial Cal:	m8280-5031010

Analytical Results
for
Ongoing Precision Result (OPRD)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50	35.7	71.4	27:02	0.78	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	18.0	72.0	27:02	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:38	0.81	

QC Information

OPRD Project No: OPRD18297
Extraction Date: 25-Jul-10
Analysis Date: 30-Jul-10
Method: 8280

File Information

OPRD Filename : 0730505
Retchk: 0730501
Begin ConCal: 0730502
End ConCal: 0730517
Initial Cal: m8280-5031010

Sample Information

Matrix: Soil

Analyzed by: JWO
Date: 08/06/10

Reviewed by: CRD
Date: 8/26/10

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

G552-668

CLIENT: SGS AK
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #:

SGS Reference #: SGS-NC

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB / MI = Multi Incremental Soils	DIOXINS	EPA 8280A for TCDD 2,3,7,8-TCDD								REMARKS/ LOC ID
✓	MOA10DXN001	7/14/10	0600	Water	2	G	X									1103452001
✓	MOA10DXN002	7/14/10	0600	↓	2	G	X									1103452002
✓	MOA10DXN003	7/14/10	0550	Audy				X								

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/15/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 7/16/10	Time 1000	Received For Laboratory By:

DOD Project? YES NO
Cooler ID
Special Deliverable Requirements:
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C: 4.5°C
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

SGS North America, Inc.

ANALYTICAL REPORT

Job Number: 280-5494-1

Job Description: SGS AK

For:
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518

Attention: Mr. Forest Taylor

Approved for release.
Stephanie Sanders
Project Mgmt. Assistant
7/31/2010 12:49 PM

Designee for
Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
07/31/2010

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

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CASE NARRATIVE

Client: SGS Environmental Services, Inc.

Project: SGS AK

Report Number: 280-5494-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 07/20/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.3 C.

Contrary to the Chain of Custody, the samples were preserved with hydrochloric acid.

Holding Times

Samples MOA10VOP017 and MOA10VOP018 were originally analyzed within the holding time for Method 624, however, due to a QC failure the samples were re-analyzed outside of the holding time. Data for these samples from the two analyses confirmed each other. Only the re-analyses that have the proper analytical QC are reported in this submission.

Method Blanks

The Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on sample MOA10VOP018 exhibited MS and MSD recoveries outside control limits for 2-Chloroethyl vinyl ether Method 624. Because these anomalies are due to the affects of hydrochloric acid on 2-Chloroethyl vinyl ether, corrective action was deemed unnecessary.

The Method 624 Matrix Spike surrogate recovery of Toluene-d8 was outside control limits. Because the corresponding Laboratory Control Sample and Method Blank sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.

All other Matrix Spikes and Matrix Spike Duplicate recoveries were within established control limits.

EXECUTIVE SUMMARY - Detections

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-5494-1	**MOA10VOP017**					
Methylene Chloride		2.0	J H	5.0	ug/L	624
280-5494-2	**MOA10VOP018**					
Methylene Chloride		2.3	J H	5.0	ug/L	624

METHOD SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	40CFR136A 624	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

METHOD / ANALYST SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Method	Analyst	Analyst ID
40CFR136A 624	Jackson, Todd D	TDJ

SAMPLE SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-5494-1	MOA10VOP017	Water	07/14/2010 1145	07/20/2010 0930
280-5494-2	MOA10VOP018	Water	07/14/2010 1145	07/20/2010 0930

SAMPLE RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Client Sample ID: **MOA10VOP017**

Lab Sample ID: 280-5494-1 Date Sampled: 07/14/2010 1145
Client Matrix: Water Date Received: 07/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-24846	Instrument ID:	MSV_C
Preparation:	N/A		Lab File ID:	C9877.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/29/2010 0209		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrolein	ND	H	15	100
Acrylonitrile	ND	H	17	100
Benzene	ND	H	1.8	5.0
Dichlorobromomethane	ND	H	1.5	5.0
Bromoform	ND	H	0.48	5.0
Bromomethane	ND	H	1.5	10
Carbon tetrachloride	ND	H	1.8	5.0
Chlorobenzene	ND	H	2.3	5.0
Chlorodibromomethane	ND	H	2.2	5.0
Chloroethane	ND	H	2.0	10
2-Chloroethyl vinyl ether	ND	H	1.9	5.0
Chloroform	ND	H	1.1	5.0
Chloromethane	ND	H	0.89	10
1,2-Dichlorobenzene	ND	H	1.3	5.0
1,3-Dichlorobenzene	ND	H	1.6	5.0
1,4-Dichlorobenzene	ND	H	0.56	5.0
1,1-Dichloroethane	ND	H	1.5	5.0
1,2-Dichloroethane	ND	H	1.3	5.0
trans-1,2-Dichloroethene	ND	H	1.7	5.0
1,1-Dichloroethene	ND	H	2.4	5.0
1,2-Dichloropropane	ND	H	1.9	5.0
1,3-Dichloropropene, Total	ND	H	2.0	5.0
Ethylbenzene	ND	H	2.2	5.0
Methylene Chloride	2.0	J H	2.0	5.0
1,1,2,2-Tetrachloroethane	ND	H	1.2	5.0
Tetrachloroethene	ND	H	2.7	5.0
Toluene	ND	H	2.2	5.0
1,1,1-Trichloroethane	ND	H	1.1	5.0
1,1,2-Trichloroethane	ND	H	1.2	5.0
Trichloroethene	ND	H	0.95	5.0
Vinyl chloride	ND	H	1.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		73 - 122
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	89		79 - 119

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Client Sample ID: **MOA10VOP018**

Lab Sample ID: 280-5494-2 Date Sampled: 07/14/2010 1145
Client Matrix: Water Date Received: 07/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-24846	Instrument ID:	MSV_C
Preparation:	N/A		Lab File ID:	C9878.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/29/2010 0233		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acrolein	ND	H	15	100
Acrylonitrile	ND	H	17	100
Benzene	ND	H	1.8	5.0
Dichlorobromomethane	ND	H	1.5	5.0
Bromoform	ND	H	0.48	5.0
Bromomethane	ND	H	1.5	10
Carbon tetrachloride	ND	H	1.8	5.0
Chlorobenzene	ND	H	2.3	5.0
Chlorodibromomethane	ND	H	2.2	5.0
Chloroethane	ND	H	2.0	10
2-Chloroethyl vinyl ether	ND	H	1.9	5.0
Chloroform	ND	H	1.1	5.0
Chloromethane	ND	H	0.89	10
1,2-Dichlorobenzene	ND	H	1.3	5.0
1,3-Dichlorobenzene	ND	H	1.6	5.0
1,4-Dichlorobenzene	ND	H	0.56	5.0
1,1-Dichloroethane	ND	H	1.5	5.0
1,2-Dichloroethane	ND	H	1.3	5.0
trans-1,2-Dichloroethene	ND	H	1.7	5.0
1,1-Dichloroethene	ND	H	2.4	5.0
1,2-Dichloropropane	ND	H	1.9	5.0
1,3-Dichloropropene, Total	ND	H	2.0	5.0
Ethylbenzene	ND	H	2.2	5.0
Methylene Chloride	2.3	J H	2.0	5.0
1,1,2,2-Tetrachloroethane	ND	H	1.2	5.0
Tetrachloroethene	ND	H	2.7	5.0
Toluene	ND	H	2.2	5.0
1,1,1-Trichloroethane	ND	H	1.1	5.0
1,1,2-Trichloroethane	ND	H	1.2	5.0
Trichloroethene	ND	H	0.95	5.0
Vinyl chloride	ND	H	1.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		73 - 122
Toluene-d8 (Surr)	109		80 - 120
4-Bromofluorobenzene (Surr)	93		79 - 119

DATA REPORTING QUALIFIERS

Client: SGS Environmental Services, Inc. Job Number: 280-5494-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-24846					
LCS 280-24846/8	Lab Control Sample	T	Water	624	
MB 280-24846/10	Method Blank	T	Water	624	
280-5494-1	MOA10VOP017	T	Water	624	
280-5494-B-2 MS	Matrix Spike	T	Water	624	
280-5494-B-2 MSD	Matrix Spike Duplicate	T	Water	624	
280-5494-2	MOA10VOP018	T	Water	624	

Report Basis

T = Total

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
280-5494-1	MOA10VOP017	100	105	89
280-5494-2	MOA10VOP018	104	109	93
MB 280-24846/10		102	110	82
LCS 280-24846/8		105	111	92
280-5494-B-2 MS		113	126X	105
280-5494-B-2 MSD		117	114	103

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	73-122
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	79-119

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Method Blank - Batch: 280-24846

Method: 624
Preparation: N/A

Lab Sample ID: MB 280-24846/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2010 0146
Date Prepared: N/A

Analysis Batch: 280-24846
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_C
Lab File ID: C9876.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Dichlorobromomethane	ND		1.5	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
2-Chloroethyl vinyl ether	ND		1.9	5.0
Chloroform	ND		1.1	5.0
Chloromethane	ND		0.89	10
1,2-Dichlorobenzene	ND		1.3	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,4-Dichlorobenzene	ND		0.56	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,2-Dichloroethane	ND		1.3	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	ND		2.0	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	ND		2.2	5.0
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	73 - 122
Toluene-d8 (Surr)	110	80 - 120
4-Bromofluorobenzene (Surr)	82	79 - 119

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Lab Control Sample - Batch: 280-24846

Method: 624
Preparation: N/A

Lab Sample ID: LCS 280-24846/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2010 2305
Date Prepared: N/A

Analysis Batch: 280-24846
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_C
Lab File ID: C9870L.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acrolein	201	235	117	38 - 188	
Acrylonitrile	200	232	116	48 - 149	
Benzene	20.0	21.9	110	37 - 151	
Dichlorobromomethane	20.0	20.9	104	35 - 155	
Bromoform	20.0	20.2	101	45 - 169	
Bromomethane	20.0	26.3	131	10 - 242	
Carbon tetrachloride	20.0	23.3	116	70 - 140	
Chlorobenzene	20.0	22.1	110	37 - 160	
Chlorodibromomethane	20.0	21.0	105	53 - 149	
Chloroethane	20.0	24.0	120	14 - 230	
2-Chloroethyl vinyl ether	20.0	16.7	83	10 - 305	
Chloroform	20.0	22.3	111	51 - 138	
Chloromethane	20.0	24.0	120	10 - 273	
1,2-Dichlorobenzene	20.0	25.2	126	18 - 190	
1,3-Dichlorobenzene	20.0	25.1	126	59 - 156	
1,4-Dichlorobenzene	20.0	25.1	125	18 - 190	
1,1-Dichloroethane	20.0	22.7	114	59 - 155	
1,2-Dichloroethane	20.0	21.6	108	49 - 155	
trans-1,2-Dichloroethene	20.0	23.4	117	54 - 156	
1,1-Dichloroethene	20.0	24.0	120	10 - 234	
1,2-Dichloropropane	20.0	21.3	106	10 - 210	
1,3-Dichloropropene, Total	40.0	39.8	99	17 - 183	
Ethylbenzene	20.0	22.8	114	37 - 162	
Methylene Chloride	20.0	21.5	108	10 - 221	
1,1,2,2-Tetrachloroethane	20.0	24.0	120	46 - 157	
Tetrachloroethene	20.0	24.4	122	64 - 148	
Toluene	20.0	25.8	129	47 - 150	
1,1,1-Trichloroethane	20.0	23.6	118	52 - 162	
1,1,2-Trichloroethane	20.0	22.1	110	52 - 150	
Trichloroethene	20.0	21.3	107	71 - 157	
Vinyl chloride	20.0	24.4	122	10 - 251	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	73 - 122
Toluene-d8 (Surr)	111	80 - 120
4-Bromofluorobenzene (Surr)	92	79 - 119

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24846

Method: 624
Preparation: N/A

MS Lab Sample ID:	280-5494-B-2 MS	Analysis Batch: 280-24846	Instrument ID: MSV_C
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C9879.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	07/29/2010 0256		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	280-5494-B-2 MSD	Analysis Batch: 280-24846	Instrument ID: MSV_C
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: C9880.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	07/29/2010 0320		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acrolein	112	132	38 - 188	16	30		
Acrylonitrile	119	147	48 - 149	21	30		
Benzene	107	114	37 - 151	6	30		
Dichlorobromomethane	97	107	35 - 155	10	30		
Bromoform	122	125	45 - 169	3	30		
Bromomethane	119	114	10 - 242	5	30		
Carbon tetrachloride	100	109	70 - 140	9	30		
Chlorobenzene	103	102	37 - 160	0	30		
Chlorodibromomethane	110	108	53 - 149	2	30		
Chloroethane	109	113	14 - 230	4	30		
2-Chloroethyl vinyl ether	0	0	10 - 305	NC	45	F	F
Chloroform	109	116	51 - 138	6	30		
Chloromethane	116	120	10 - 273	4	30		
1,2-Dichlorobenzene	111	108	18 - 190	2	30		
1,3-Dichlorobenzene	105	106	59 - 156	1	30		
1,4-Dichlorobenzene	103	105	18 - 190	2	30		
1,1-Dichloroethane	111	117	59 - 155	5	30		
1,2-Dichloroethane	101	111	49 - 155	9	30		
trans-1,2-Dichloroethene	106	115	54 - 156	9	30		
1,1-Dichloroethene	107	118	10 - 234	9	30		
1,2-Dichloropropane	97	108	10 - 210	10	30		
1,3-Dichloropropene, Total	89	95	17 - 183	6	30		
Ethylbenzene	107	107	37 - 162	0	30		
Methylene Chloride	99	106	10 - 221	6	30		
1,1,2,2-Tetrachloroethane	149	147	46 - 157	1	30		
Tetrachloroethene	117	106	64 - 148	9	30		
Toluene	131	119	47 - 150	10	30		
1,1,1-Trichloroethane	103	112	52 - 162	8	30		
1,1,2-Trichloroethane	127	121	52 - 150	4	30		
Trichloroethene	93	98	71 - 157	5	30		

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24846

Method: 624
Preparation: N/A

MS Lab Sample ID:	280-5494-B-2 MS	Analysis Batch:	280-24846	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9879.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/29/2010 0256			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-5494-B-2 MSD	Analysis Batch:	280-24846	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9880.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/29/2010 0320			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl chloride	113	119	10 - 251	5	30		

Surrogate	MS % Rec		MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		117	73 - 122
Toluene-d8 (Surr)	126	X	114	80 - 120
4-Bromofluorobenzene (Surr)	105		103	79 - 119

2.3 JS 7/20/10 IR1

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

07/31/2010

CLIENT: **SGS AK**
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 1103452

SGS Reference #: TA CO

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C= COMP G= GRAB / MI= Multi Incremental Soils										REMARKS/ LOC ID
	MOA10V0P017	7/14/10	1145	water			X									1103452013
	MOA10V0P018	↓	↓	↓			X									1103452014

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/19/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: 7/20/10 0930

DOD Project? YES NO
Cooler ID _____
Special Deliverable Requirements:
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C: _____
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

Login Sample Receipt Check List

Client: SGS Environmental Services, Inc.

Job Number: 280-5494-1

Login Number: 5494

List Source: TestAmerica Denver

Creator: Cofoid, Stephen T

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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	
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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 280-5616-1

Job Description: SGS AK

For:
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518

Attention: Mr. Forest Taylor

Approved for release.
Betsy A Sara
Project Manager II
12/10/2010 1:10 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/10/2010
Revision: 2

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

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

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CASE NARRATIVE

Client: SGS Environmental Services, Inc.

Project: SGS AK

Report Number: 280-5616-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 07/23/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.2 C.

Holding Times

The holding times were met.

Method Blanks

Acetone and Methylene Chloride were detected in the Method Blanks at concentrations below the reporting limits but above the method detection limits. No corrective action is taken for results in Method Blank that are below the reporting limits.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The Matrix Spike and Matrix Spike Duplicate performed on sample EFFLUENT COMPOSITE exhibited MS/MSD recoveries and/or RPD data outside control limits for multiple compounds by Method 624. Because the corresponding Laboratory Control Sample and the Method Blank sample were within control limits, this anomaly may be due to matrix interference and no corrective action was taken.

All other Matrix Spikes and Matrix Spike Duplicate recoveries were within established control limits.

Organics

Bis(chloromethyl)ether is an unstable compound that can not be reliably quantitated by Method 624. Therefore, no result is provided for this compound in samples analyzed in this lot.

Report Revision

This submission was revised to include additional Method 624 compounds per the client's request on 12/09/2010.

EXECUTIVE SUMMARY - Detections

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-5616-1	**INFLUENT COMPOSITE**					
1,4-Dichlorobenzene		0.91	J	5.0	ug/L	624
Acetone		97	B	20	ug/L	624
Chloroform		2.0	J	5.0	ug/L	624
Methylene Chloride		4.8	J B	5.0	ug/L	624
Toluene		10		5.0	ug/L	624
Xylenes, Total		7.8	J	10	ug/L	624
280-5616-2	**EFFLUENT COMPOSITE**					
1,4-Dichlorobenzene		0.73	J	5.0	ug/L	624
Acetone		130	B	20	ug/L	624
Chloroform		3.5	J	5.0	ug/L	624
Chloromethane		0.95	J	10	ug/L	624
Methylene Chloride		6.0	B	5.0	ug/L	624
Toluene		9.8		5.0	ug/L	624
Xylenes, Total		4.7	J	10	ug/L	624

METHOD SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	40CFR136A 624	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

METHOD / ANALYST SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Method	Analyst	Analyst ID
40CFR136A 624	Jackson, Todd D	TDJ

SAMPLE SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-5616-1	INFLUENT COMPOSITE	Water	07/13/2010 2110	07/23/2010 0945
280-5616-2	EFFLUENT COMPOSITE	Water	07/13/2010 2110	07/23/2010 0945
280-5616-2MS	EFFLUENT COMPOSITE	Water	07/13/2010 2110	07/23/2010 0945
280-5616-2MSD	EFFLUENT COMPOSITE	Water	07/13/2010 2110	07/23/2010 0945

SAMPLE RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Client Sample ID: **INFLUENT COMPOSITE**

Lab Sample ID: 280-5616-1 Date Sampled: 07/13/2010 2110
Client Matrix: Water Date Received: 07/23/2010 0945

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-24504	Instrument ID:	MSV_C
Preparation:	N/A		Lab File ID:	C9833.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 1900		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	0.91	J	0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	97	B	3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	2.0	J	1.1	5.0
Chloromethane	ND		0.89	10
cis-1,2-Dichloroethene	ND		1.3	5.0
cis-1,3-Dichloropropene	ND		2.5	10
Dibromomethane	ND		0.84	5.0
Dichlorobromomethane	ND		1.5	5.0
Dichlorodifluoromethane	ND		2.3	10
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	4.8	J B	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	10		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
trans-1,3-Dichloropropene	ND		2.0	5.0
Trichloroethene	ND		0.95	5.0
Trichlorofluoromethane	ND		3.9	15
Vinyl chloride	ND		1.3	10
Xylenes, Total	7.8	J	1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		73 - 122
4-Bromofluorobenzene (Surr)	81		79 - 119
Toluene-d8 (Surr)	104		80 - 120

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Client Sample ID: **EFFLUENT COMPOSITE**

Lab Sample ID: 280-5616-2 Date Sampled: 07/13/2010 2110
Client Matrix: Water Date Received: 07/23/2010 0945

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-24504	Instrument ID:	MSV_C
Preparation:	N/A		Lab File ID:	C9834.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 1923		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	0.73	J	0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	130	B	3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	3.5	J	1.1	5.0
Chloromethane	0.95	J	0.89	10
cis-1,2-Dichloroethene	ND		1.3	5.0
cis-1,3-Dichloropropene	ND		2.5	10
Dibromomethane	ND		0.84	5.0
Dichlorobromomethane	ND		1.5	5.0
Dichlorodifluoromethane	ND		2.3	10
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	6.0	B	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	9.8		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
trans-1,3-Dichloropropene	ND		2.0	5.0
Trichloroethene	ND		0.95	5.0
Trichlorofluoromethane	ND		3.9	15
Vinyl chloride	ND		1.3	10
Xylenes, Total	4.7	J	1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		73 - 122
4-Bromofluorobenzene (Surr)	88		79 - 119
Toluene-d8 (Surr)	102		80 - 120

DATA REPORTING QUALIFIERS

Client: SGS Environmental Services, Inc. Job Number: 280-5616-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-24504					
LCS 280-24504/9	Lab Control Sample	T	Water	624	
MB 280-24504/10	Method Blank	T	Water	624	
280-5616-1	INFLUENT COMPOSITE	T	Water	624	
280-5616-2	EFFLUENT COMPOSITE	T	Water	624	
280-5616-2MS	Matrix Spike	T	Water	624	
280-5616-2MSD	Matrix Spike Duplicate	T	Water	624	

Report Basis

T = Total

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec
280-5616-1	INFLUENT COMPOSITE	99	81	104
280-5616-2	EFFLUENT COMPOSITE	107	88	102
MB 280-24504/10		122	91	109
LCS 280-24504/9		105	93	96

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	73-122
BFB = 4-Bromofluorobenzene (Surr)	79-119
TOL = Toluene-d8 (Surr)	80-120

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
280-5616-2 MS	EFFLUENT COMPOSITE MS	106	96	96
280-5616-2 MSD	EFFLUENT COMPOSITE MSD	102	98	94

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	73-122
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	79-119

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Method Blank - Batch: 280-24504

Method: 624
Preparation: N/A

Lab Sample ID: MB 280-24504/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1804
Date Prepared: N/A

Analysis Batch: 280-24504
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_C
Lab File ID: C9832.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	ND		0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	3.44	J	3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	ND		1.1	5.0
Chloromethane	ND		0.89	10
cis-1,2-Dichloroethene	ND		1.3	5.0
cis-1,3-Dichloropropene	ND		2.5	10
Dibromomethane	ND		0.84	5.0
Dichlorobromomethane	ND		1.5	5.0
Dichlorodifluoromethane	ND		2.3	10
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	2.10	J	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	ND		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
trans-1,3-Dichloropropene	ND		2.0	5.0
Trichloroethene	ND		0.95	5.0
Trichlorofluoromethane	ND		3.9	15
Vinyl chloride	ND		1.3	10
Xylenes, Total	ND		1.1	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122	73 - 122
4-Bromofluorobenzene (Surr)	91	79 - 119

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	109	80 - 120

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Lab Control Sample - Batch: 280-24504

Method: 624
Preparation: N/A

Lab Sample ID: LCS 280-24504/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/26/2010 1718
Date Prepared: N/A

Analysis Batch: 280-24504
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_C
Lab File ID: C9830L.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	20.0	23.1	116	52 - 162	
1,1,2,2-Tetrachloroethane	20.0	21.6	108	46 - 157	
1,1,2-Trichloroethane	20.0	20.8	104	52 - 150	
1,1-Dichloroethane	20.0	22.7	113	59 - 155	
1,1-Dichloroethene	20.0	22.3	111	10 - 234	
1,2-Dichlorobenzene	20.0	20.3	102	18 - 190	
1,2-Dichloroethane	20.0	22.5	113	49 - 155	
1,2-Dichloropropane	20.0	20.2	101	10 - 210	
1,3-Dichlorobenzene	20.0	21.1	106	59 - 156	
1,3-Dichloropropene, Total	40.0	36.6	92	17 - 183	
1,4-Dichlorobenzene	20.0	20.8	104	18 - 190	
2-Chloroethyl vinyl ether	20.0	17.4	87	10 - 305	
Acetone	80.0	88.7	111	42 - 170	
Acrolein	201	230	114	38 - 188	
Acrylonitrile	200	237	119	48 - 149	
Benzene	20.0	22.0	110	37 - 151	
Bromoform	20.0	19.4	97	45 - 169	
Bromomethane	20.0	19.3	96	10 - 242	
Carbon tetrachloride	20.0	23.4	117	70 - 140	
Chlorobenzene	20.0	20.9	104	37 - 160	
Chlorodibromomethane	20.0	20.5	102	53 - 149	
Chloroethane	20.0	21.6	108	14 - 230	
Chloroform	20.0	21.8	109	51 - 138	
Chloromethane	20.0	19.6	98	10 - 273	
cis-1,3-Dichloropropene	20.0	17.7	88	10 - 227	
Dichlorobromomethane	20.0	20.7	104	35 - 155	
Ethylbenzene	20.0	19.4	97	37 - 162	
Methylene Chloride	20.0	22.0	110	10 - 221	
Tetrachloroethene	20.0	21.5	108	64 - 148	
Toluene	20.0	21.1	106	47 - 150	
trans-1,2-Dichloroethene	20.0	22.3	111	54 - 156	
trans-1,3-Dichloropropene	20.0	18.9	95	17 - 183	
Trichloroethene	20.0	18.9	94	71 - 157	
Trichlorofluoromethane	20.0	21.5	107	17 - 181	
Vinyl chloride	20.0	19.5	98	10 - 251	
Xylenes, Total	60.0	59.3	99	50 - 150	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	73 - 122
4-Bromofluorobenzene (Surr)	93	79 - 119
Toluene-d8 (Surr)	96	80 - 120

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24504

Method: 624
Preparation: N/A

MS Lab Sample ID:	280-5616-2	Analysis Batch:	280-24504	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9835.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 1946			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-5616-2	Analysis Batch:	280-24504	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9836.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 2009			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	150	96	52 - 162	44	30		F
1,1,2,2-Tetrachloroethane	133	89	46 - 157	40	30		F
1,1,2-Trichloroethane	134	85	52 - 150	44	30		F
1,1-Dichloroethane	140	82	59 - 155	53	30		F
1,1-Dichloroethene	147	90	10 - 234	48	30		F
1,2-Dichlorobenzene	133	83	18 - 190	46	30		F
1,2-Dichloroethane	140	83	49 - 155	52	30		F
1,2-Dichloropropane	127	71	10 - 210	56	30		F
1,3-Dichlorobenzene	138	83	59 - 156	50	30		F
1,3-Dichloropropene, Total	127	67	17 - 183	62	30		F
1,4-Dichlorobenzene	136	80	18 - 190	51	30		F
2-Chloroethyl vinyl ether	6	0	10 - 305	NC	45	J F	F
Acetone	71	135	42 - 170	34	20		F
Acrolein	75	87	38 - 188	15	30		
Acrylonitrile	67	82	48 - 149	19	30		
Benzene	140	81	37 - 151	53	30		F
Bromoform	142	79	45 - 169	58	30		F
Bromomethane	48	57	10 - 242	17	30		
Carbon tetrachloride	154	99	70 - 140	44	30	F	F
Chlorobenzene	134	80	37 - 160	51	30		F
Chlorodibromomethane	136	80	53 - 149	51	30		F
Chloroethane	58	67	14 - 230	14	30		
Chloroform	136	81	51 - 138	47	30		F
Chloromethane	51	60	10 - 273	15	30		
cis-1,3-Dichloropropene	120	58	10 - 227	69	30		F
Dichlorobromomethane	133	74	35 - 155	57	30		F
Ethylbenzene	150	86	37 - 162	54	30		F
Methylene Chloride	120	79	10 - 221	36	30		F
Tetrachloroethene	145	89	64 - 148	47	30		F
Toluene	144	86	47 - 150	42	30		F

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-24504

Method: 624
Preparation: N/A

MS Lab Sample ID:	280-5616-2	Analysis Batch:	280-24504	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9835.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 1946			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	280-5616-2	Analysis Batch:	280-24504	Instrument ID:	MSV_C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C9836.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/26/2010 2009			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,2-Dichloroethene	142	86	54 - 156	49	30		F
trans-1,3-Dichloropropene	133	75	17 - 183	56	30		F
Trichloroethene	123	67	71 - 157	58	30		F
Trichlorofluoromethane	59	66	17 - 181	12	30		
Vinyl chloride	52	68	10 - 251	25	30		
Xylenes, Total	154	92	50 - 150	49	30	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	102	73 - 122
Toluene-d8 (Surr)	96	98	80 - 120
4-Bromofluorobenzene (Surr)	96	94	79 - 119

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

MS 0.2
7/23/10 JR1

Locations Nationwide

Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina

www.us.sgs.com

CLIENT: SGS AK
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: Kinnetics SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 1103452

SGS Reference #: Test America, CO

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB / MI= Multi Incremental Soil	Preserv Used: HCl									REMARKS/ LOC ID
	Influent Composite	7/13/10	2110	water		C	X									1103452001 (M-O)
	Effluent Composite	↓	↓	↓		C	X									1103452002 (M-O)
	Effluent MS Composite					C	X									1103452031 (AP)
						C	X									1103452032 (AP)
	Effluent MSD Composite	↓	↓	↓		C	X									

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/22/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 7/23/10	Time 0945	Received For Laboratory By:

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements:

Requested Turnaround Time and-or Special Instructions: all samples composites & 8 other samples

Temperature Blank °C:

See attached Sample Receipt Form

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

Login Sample Receipt Check List

Client: SGS Environmental Services, Inc.

Job Number: 280-5616-1

Login Number: 5616

List Source: TestAmerica Denver

Creator: Harrington, Nicholas

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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?	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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Columbia Analytical Services™ 1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

September 13, 2010 Analytical Report for Service Request No: K1007392

Forest Taylor
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518-1605

Dear Forest:

Enclosed are the results of the samples submitted to our laboratory on July 16, 2010. For your reference, these analyses have been assigned our service request number K1007392.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3364. You may also contact me via Email at HHolmes@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Howard Holmes
Project Chemist

HH/dlm

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	SGS Environmental Services	**Service Request No.:**	K1007392
Project:	PO#1103452	**Date Received:**	7/16/10
Sample Matrix:	Water/Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Six water & four soil samples were received for analysis at Columbia Analytical Services on 7/16/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Semivolatile Organic Compounds by EPA Method 625

Second Source Exceptions:
The upper control criterion was exceeded for the following analyte in Initial Calibration Verification (ICV) MS07/0721F018.D: Benzidine. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Matrix Spike Recovery Exceptions:
The upper control criterion was exceeded for the following analyte in the replicate Matrix Spike (MS/MSD) analyses of sample Batch QC: Phenol. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

Elevated Detection Limits:
The detection limits were elevated in sample M0A10SVL001. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution.

The target analyte list for 625 does not include 4-Methylphenol. As per instructions from the client, 4-Methylphenol was added to the target analyte list.

No other anomalies associated with the analysis of these samples were observed.

Approved by Howard Holmes **Date** 7-11-11

Organochlorine Pesticides by EPA Method 8081A

Water (8081 was used instead of 608 because Mirex was requested)

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for Chlordane in the replicate Laboratory Control Sample (LCS) analyses (KWG1007972-1 and KWG1007972-2) was outside control criteria. Note that the individual recoveries were within control limits. The data was flagged to indicate the problem.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for 4,4'-DDT was exceeded in a couple samples. The lower of the two values was reported because there was apparent matrix interference on the alternate column that produced the higher value.

Elevated Detection Limits:
The detection limit was elevated for all analytes in sample MOA10PES001. The chromatogram indicated the presence of non-target background components. The sample was diluted in order to achieve optimal resolution of the target analytes. The results were flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

Soil

Matrix Spike Recovery Exceptions:
The control criteria for the matrix spike recovery of 4,4'-DDT for sample Batch QC was not applicable. The chromatogram indicated non-target matrix background components contributed to the reported matrix spike concentrations. Thus, the reported recoveries contained a high bias. Based on the magnitude of background contribution, the interference appeared to be minimal.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for 4,4'-DDT was exceeded in a couple samples. The lower of the two values was reported because there was apparent matrix interference on the alternate column that produced the higher value.

Elevated Detection Limits:
The detection limit was elevated for all analytes in sample M0A10PES003. The chromatogram indicated the presence of non-target background components. The sample was diluted in order to achieve optimal resolution of the target analytes. The results were flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Water Samples

Calibration Verification Exceptions:
The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criteria is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Decachlorobiphenyl. The results are reported from the column with an acceptable CCV. The data quality is not affected. No further corrective action was necessary.

No other anomalies associated with the analysis of these samples were observed.

Approved by Howard Holmes **Date** 1-11-11

Soil samples

Surrogate Exceptions:
The control criteria were exceeded for the following surrogate in sample M0A10PES003 due to suspected matrix interferences: Decachlorobiphenyl. The sample as described in the preparation benchsheet, is dark and oily. The suspected matrix is attributed to the low surrogate recovery. The sample is not re-extracted because of the above listed reason. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of Aroclor 1016, and 1260 for sample Batch QC were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Organophosphorus Pesticides by EPA Method 8141

Water samples (8141 was used instead of 614 due to difficulty in meeting the CCV criteria)

Calibration Verification Exceptions:
The analysis of Organophosphorus Pesticides by EPA 8141 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for most anlytes in Continuing Calibration Verification (CCV) 0817F016 and 0817F024. The results were reported from the column with an acceptable CCV. The data quality was not affected, the field samples did not contain the analytes in question. No further corrective action was necessary.

Surrogate Exceptions:
The upper control criteria were exceeded for Tributyl Phosphate in both field samples, however the other surrogate, Triphenyl Phosphate was within control limits. No target analytes were detected in the samples. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Soil samples

Calibration Verification Exceptions:
The analysis of Organophosphorus Pesticides by EPA 8141 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Tributyl Phosphate and Triphenyl Phosphate in 0902F029. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Surrogate Exceptions:
The upper control criteria were exceeded for Tributyl Phosphate & Triphenyl Phosphate in both field samples. No target analytes were detected in the samples. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Approved by Howard Holmes **Date** 1-11-11

Semivolatile Organic Compounds by EPA Method 8270C

Surrogate Exceptions:
The upper control criterion was exceeded for the following surrogate in Method Blank KWG1008032-3: Terphenyl-d14. No target analytes were detected in the Method Blank. Since the apparent problem equates to a high bias, the data quality is not significantly affected. No further corrective action was appropriate.

The control criteria for the following all surrogates in sample KWG1008032-3 are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Lab Control Sample Exceptions:
The control criterion was exceeded for the following analytes in Duplicate Laboratory Control Sample (DLCS) KWG1008032-2: 4-Methylphenol and Bis(2-ethylhexyl) Phthalate. The problem indicates a potential bias for results reported form this analytical batch. The following samples tested positive for the analytes in question: M0A10SVL003. Reanalysis was not performed at client request. The data is flagged to indicate the problem.

The upper control criterion was exceeded for the following analytes Duplicate Laboratory Control Sample (DLCS) KWG1008032-2: Naphthalene, 4-Chloroaniline, Hexachlorocyclopentadiene, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, Di-n-butyl Phthalate, 3,3'-Dichlorobenzidine, Benz(a)anthracene, Chrysene, and Bis(2-ethylhexyl) Phthalate. The analytes in question were not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the following analytes in the replicate Laboratory Control Sample (LCS) analyses (KWG1008032-1 and KWG1008032-2) was outside control criteria: Benzoic Acid, 4-Chloroaniline, Hexachlorocyclopentadiene, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, N-Nitrosodiphenylamine, Pentachlorophenol, Di-n-butyl Phthalate, 3,3'-Dichlorobenzidine, Benz(a)anthracene, Chrysene, and Bis(2-ethylhexyl) Phthalate. Reanalysis of the associated field samples was not be performed at client request. The data is flagged to indicate the problem.

Elevated Detection Limits:
Sample M0A10SVL003 required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

Sample Notes and Discussion:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by Howard Holmes **Date** 1-11-11

Chain of Custody

K1007392

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

K1007392

CLIENT: **SGS AK**
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 1103452

SGS Reference #: CASKelso

page 1 of 2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB / MI = Multi Incremental Soils	EPA 614/fr	Parathion, Malathion, Demeton, Guathion (0.05-1.0 µg/L)	Detection limits 0.05-1.0 µg/L (Guathion ~15 µg/L)	EPA 608 plus Mirex detection limits 0.05-1.0 µg/L	EPA 625 FULL LIST	MS for EPA 625 FULL LIST	MSD for EPA 625 FULL LIST			REMARKS/ LOC ID
	MOA10PST001	7/14/10	0600	Water		G	X									1103452001
	MOA10PST002	↓	↓	↓		↓	X									1103452002
	MOA10PES001	↓	↓	↓		↓				X						1103452001
	MOA10PES002	↓	↓	↓		↓				X						1103452002
	MOA10SVL001	↓	↓	↓		↓					X					1103452001
	MOA10SVL002	↓	↓	↓		↓					X					1103452002
	MOA10SVL002(MS)	↓	↓	↓		↓						X				1103452003
	MOA10SVL002(MSD)	↓	↓	↓		↓							X			1103452004

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/15/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: Jean Jones 7/16/10 1000

DOD Project? YES NO
Cooler ID
Special Deliverable Requirements:
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C:
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

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SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

K1007392

CLIENT: **SGS AK**
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 11034452

SGS Reference #: CAS

page 2 of 2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB / MI = Multi Incremental Soils	EPA 9010 BMod. Total CN	Organo Pesticides	EPA 8081 plus Annex, EPA 8141A for Demeton, Guthion, Malathion and Parathion only DLO 0.01-0.00 mg (Dry weight)	Guthion ~5 µg/g Please Report + Usual DLO	PCBs (EPA 8082) Report Dry weight	EPA 8270C Report + Usual 625 analyte list. D/Methanol. Please report in dry weight			REMARKS/ LOC ID
	MOA10TCN021	7/14/10	0550	Sludge	1	G	X								1103452007(A)
	MOA10PST003	↓	↓	↓		↓		X							1103452007(B)
	MOA10PES003								X		X				1103452007(C)
	MOA10SVL003											X			1103452007(E)

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/15/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: 7/16/10 1000

DOD Project? YES NO
Cooler ID _____
Special Deliverable Requirements:
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C: _____
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PO

Client / Project: SGS Service Request K10 07392

Received: 7/16/10 Opened: 7/16/10 By: AJ/77

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* 7/16/10 *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Top 2 Top to side

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.6	4.3	289		1ZA86019W0156920541	
-0.3	1.5	275		4251152	

7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other*
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Soil

Total Solids

Prep Method: NONE **Units:** PERCENT
Analysis Method: 160.3M **Basis:** Wet
Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
M0A10TCN021	K1007392-007	07/14/2010	07/16/2010	07/21/2010	29.5	
M0A10PST003	K1007392-008	07/14/2010	07/16/2010	07/21/2010	29.4	
M0A10PES003	K1007392-009	07/14/2010	07/16/2010	07/21/2010	29.3	
M0A10SVL003	K1007392-010	07/14/2010	07/16/2010	07/21/2010	29.0	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010
		Date Analyzed:	07/21/2010

Duplicate Sample Summary

Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
M0A10TCN021	K1007392-007	29.5	26.8	28.2	10	

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : SGS Environmental Services, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : SOIL

Service Request : K1007392
Date Collected : 07/14/10
Date Received : 07/16/10

Cyanide, Total

Prep Method : Method
Analysis Method : 9012A
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
M0A10TCN021	K1007392-007	0.67	1	7/26/2010	07/27/10	ND	
Method Blank	K1007392-MB	0.20	1	7/26/2010	07/27/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K1007392
Project Name :	NA	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/26/10
		Date Analyzed :	07/27/10

Duplicate Summary
Inorganic Parameters

Sample Name :	BatchQC	Units :	mg/Kg
Lab Code :	K1007754-001DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A	0.2	ND	1.7	NC	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K1007392
Project Name :	NA	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/26/10
		Date Analyzed :	07/27/10

Matrix Spike Summary
Inorganic Parameters

Sample Name :	BatchQC	Units :	mg/Kg
Lab Code :	K1007754-001MS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Cyanide, Total	Method	9012A	0.2	12.5	ND	8.6	68	10-167	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K1007392
Project Name :	NA	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/26/10
		Date Analyzed :	07/27/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K1007392-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Cyanide, Total	Method	9012A	26.4	24.4	92	80-109	

Semi-Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL001
Lab Code: K1007392-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 625

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
Bis(2-chloroethyl) Ether	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Phenol	**180**	D	54	5	07/20/10	08/20/10	KWG1007331	
2-Chlorophenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Bis(2-chloroisopropyl) Ether	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Hexachloroethane	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
N-Nitrosodi-n-propylamine	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
4-Methylphenol	**180**	D	54	5	07/20/10	08/20/10	KWG1007331	
Nitrobenzene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Isophorone	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2-Nitrophenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2,4-Dimethylphenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Bis(2-chloroethoxy)methane	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2,4-Dichlorophenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
1,2,4-Trichlorobenzene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Naphthalene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Hexachlorobutadiene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
4-Chloro-3-methylphenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Hexachlorocyclopentadiene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2,4,6-Trichlorophenol	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2-Chloronaphthalene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Acenaphthylene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Dimethyl Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2,6-Dinitrotoluene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Acenaphthene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2,4-Dinitrophenol	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
4-Nitrophenol	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
2,4-Dinitrotoluene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Fluorene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
4-Chlorophenyl Phenyl Ether	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Diethyl Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
2-Methyl-4,6-dinitrophenol	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
N-Nitrosodiphenylamine	ND	U	54	5	07/20/10	08/20/10	KWG1007331	

Comments:

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL001
Lab Code: K1007392-005

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 625

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Diphenylhydrazine†	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
4-Bromophenyl Phenyl Ether	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Hexachlorobenzene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Pentachlorophenol	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
Phenanthrene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Anthracene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Di-n-butyl Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Fluoranthene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Benzidine	ND	U	270	5	07/20/10	08/20/10	KWG1007331	
Pyrene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Butyl Benzyl Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
3,3'-Dichlorobenzidine	ND	U	140	5	07/20/10	08/20/10	KWG1007331	
Benz(a)anthracene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Chrysene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Bis(2-ethylhexyl) Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Di-n-octyl Phthalate	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Benzo(b)fluoranthene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Benzo(k)fluoranthene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Benzo(a)pyrene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Indeno(1,2,3-cd)pyrene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Dibenz(a,h)anthracene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	
Benzo(g,h,i)perylene	ND	U	54	5	07/20/10	08/20/10	KWG1007331	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	85	34-112	08/20/10	Acceptable
Phenol-d6	97	34-116	08/20/10	Acceptable
Nitrobenzene-d5	116	43-120	08/20/10	Acceptable
2-Fluorobiphenyl	92	45-115	08/20/10	Acceptable
2,4,6-Tribromophenol	122	34-134	08/20/10	Acceptable
Terphenyl-d14	72	13-152	08/20/10	Acceptable

Comments:

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	M0A10SVL001	**Units:**	ug/L
Lab Code:	K1007392-005	**Basis:**	NA

† Analyte Comments

1,2-Diphenylhydrazine	This compound is quantitated as Azobenzene.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL002
Lab Code: K1007392-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 625

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	27	1	07/20/10	07/30/10	KWG1007331	
Bis(2-chloroethyl) Ether	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Phenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2-Chlorophenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Bis(2-chloroisopropyl) Ether	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Hexachloroethane	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
N-Nitrosodi-n-propylamine	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
4-Methylphenol	**99**		11	1	07/20/10	07/30/10	KWG1007331	
Nitrobenzene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Isophorone	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2-Nitrophenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2,4-Dimethylphenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Bis(2-chloroethoxy)methane	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2,4-Dichlorophenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
1,2,4-Trichlorobenzene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Naphthalene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Hexachlorobutadiene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
4-Chloro-3-methylphenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Hexachlorocyclopentadiene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2,4,6-Trichlorophenol	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2-Chloronaphthalene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Acenaphthylene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Dimethyl Phthalate	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2,6-Dinitrotoluene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Acenaphthene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2,4-Dinitrophenol	ND	U	27	1	07/20/10	07/30/10	KWG1007331	
4-Nitrophenol	ND	U	27	1	07/20/10	07/30/10	KWG1007331	
2,4-Dinitrotoluene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Fluorene	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
4-Chlorophenyl Phenyl Ether	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
Diethyl Phthalate	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
2-Methyl-4,6-dinitrophenol	ND	U	27	1	07/20/10	07/30/10	KWG1007331	
N-Nitrosodiphenylamine	ND	U	11	1	07/20/10	07/30/10	KWG1007331	

Comments:

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL002
Lab Code: K1007392-006

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 625

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Diphenylhydrazine†	ND	U	11	1	07/20/10	07/30/10	KWG1007331	
4-Bromophenyl Phenyl Ether	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Hexachlorobenzene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Pentachlorophenol	ND	U	27	1	07/20/10	08/20/10	KWG1007331	
Phenanthrene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Anthracene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Di-n-butyl Phthalate	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Fluoranthene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Benzidine	ND	U	54	1	07/20/10	08/20/10	KWG1007331	
Pyrene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Butyl Benzyl Phthalate	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
3,3'-Dichlorobenzidine	ND	U	27	1	07/20/10	08/20/10	KWG1007331	
Benz(a)anthracene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Chrysene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Bis(2-ethylhexyl) Phthalate	**14**		11	1	07/20/10	08/20/10	KWG1007331	
Di-n-octyl Phthalate	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Benzo(b)fluoranthene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Benzo(k)fluoranthene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Benzo(a)pyrene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Indeno(1,2,3-cd)pyrene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Dibenz(a,h)anthracene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	
Benzo(g,h,i)perylene	ND	U	11	1	07/20/10	08/20/10	KWG1007331	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	102	34-112	07/30/10	Acceptable
Phenol-d6	102	34-116	07/30/10	Acceptable
Nitrobenzene-d5	104	43-120	07/30/10	Acceptable
2-Fluorobiphenyl	97	45-115	07/30/10	Acceptable
2,4,6-Tribromophenol	101	34-134	08/20/10	Acceptable
Terphenyl-d14	82	13-152	08/20/10	Acceptable

Comments:

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	M0A10SVL002	**Units:**	ug/L
Lab Code:	K1007392-006	**Basis:**	NA

† Analyte Comments

1,2-Diphenylhydrazine	This compound is quantitated as Azobenzene.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1007331-4

Units: ug/L
Basis: NA

Extraction Method: EPA 3520C
Analysis Method: 625

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	07/20/10	07/30/10	KWG1007331	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
Phenol	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
2-Chlorophenol	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
Hexachloroethane	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
4-Methylphenol	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
Nitrobenzene	ND	U	9.5	1	07/20/10	07/30/10	KWG1007331	
Isophorone	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2-Nitrophenol	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2,4-Dimethylphenol	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2,4-Dichlorophenol	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
1,2,4-Trichlorobenzene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Naphthalene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Hexachlorobutadiene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
4-Chloro-3-methylphenol	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Hexachlorocyclopentadiene	ND	U	9.5	1	07/20/10	09/02/10	KWG1007331	
2,4,6-Trichlorophenol	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2-Chloronaphthalene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Acenaphthylene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Dimethyl Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2,6-Dinitrotoluene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Acenaphthene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2,4-Dinitrophenol	ND	U	24	1	07/20/10	09/01/10	KWG1007331	
4-Nitrophenol	ND	U	24	1	07/20/10	09/02/10	KWG1007331	
2,4-Dinitrotoluene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Fluorene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Diethyl Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	07/20/10	09/01/10	KWG1007331	
N-Nitrosodiphenylamine	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1007331-4	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	625		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Diphenylhydrazine†	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Hexachlorobenzene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Pentachlorophenol	ND	U	24	1	07/20/10	09/01/10	KWG1007331	
Phenanthrene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Anthracene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Di-n-butyl Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Fluoranthene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Benzidine	ND	U	48	1	07/20/10	09/01/10	KWG1007331	
Pyrene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Butyl Benzyl Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
3,3'-Dichlorobenzidine	ND	U	24	1	07/20/10	09/01/10	KWG1007331	
Benz(a)anthracene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Chrysene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Di-n-octyl Phthalate	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Benzo(b)fluoranthene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Benzo(k)fluoranthene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Benzo(a)pyrene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Dibenz(a,h)anthracene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	
Benzo(g,h,i)perylene	ND	U	9.5	1	07/20/10	09/01/10	KWG1007331	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	109	34-112	07/30/10	Acceptable
Phenol-d6	107	34-116	07/30/10	Acceptable
Nitrobenzene-d5	107	43-120	07/30/10	Acceptable
2-Fluorobiphenyl	86	45-115	09/01/10	Acceptable
2,4,6-Tribromophenol	86	34-134	09/01/10	Acceptable
Terphenyl-d14	100	13-152	09/01/10	Acceptable

Comments:

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1007331-4	**Basis:**	NA

† Analyte Comments

1,2-Diphenylhydrazine	This compound is quantitated as Azobenzene.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C **Units:** PERCENT
Analysis Method: 625 **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6
M0A10SVL001	K1007392-005	85 D	97 D	116 D	92 D	122 D	72 D
M0A10SVL002	K1007392-006	102	102	104	97	101	82
Method Blank	KWG1007331-4	109	107	107	86	86	100
M0A10SVL002MS	KWG1007331-1	100	96	106	85	94	76
M0A10SVL002DMS	KWG1007331-2	105	103	109	95	103	96
Lab Control Sample	KWG1007331-3	103	102	101	100	100	106

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	34-112	Sur5 = 2,4,6-Tribromophenol	34-134
Sur2 = Phenol-d6	34-116	Sur6 = Terphenyl-d14	13-152
Sur3 = Nitrobenzene-d5	43-120		
Sur4 = 2-Fluorobiphenyl	45-115		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/20/2010
Sample Matrix:	Water	**Date Analyzed:**	07/30/2010 - 09/02/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Sample Name:	M0A10SVL002	**Units:**	ug/L
Lab Code:	K1007392-006	**Basis:**	NA
Extraction Method:	EPA 3520C	**Level:**	Low
Analysis Method:	625	**Extraction Lot:**	KWG1007331

Analyte Name	Sample Result	M0A10SVL002MS KWG1007331-1 Matrix Spike			M0A10SVL002DMS KWG1007331-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Phenol	ND	114	108	106 *	126	108	117 *	53-101	10	30
2-Chlorophenol	ND	87.4	108	81	103	108	96	59-101	16	30
N-Nitrosodi-n-propylamine	ND	95.4	108	89	112	108	104	59-105	16	30
1,2,4-Trichlorobenzene	ND	79.9	108	74	96.5	108	90	53-101	19	30
4-Chloro-3-methylphenol	ND	81.9	108	76	86.3	108	80	60-112	5	30
Acenaphthene	ND	77.4	108	72	90.2	108	84	60-109	15	30
4-Nitrophenol	ND	99.8	108	93	130	108	121	51-125	26	30
2,4-Dinitrotoluene	ND	103	108	96	106	108	99	56-127	3	30
Pentachlorophenol	ND	93.4	108	87	104	108	97	52-117	11	30
Pyrene	ND	64.2	108	60	68.8	108	64	57-115	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Extracted: 07/20/2010
Date Analyzed: 07/30/2010 - 09/01/2010

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 625

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1007331

	Lab Control Sample KWG1007331-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
N-Nitrosodimethylamine	88.3	94.3	94	47-110
Bis(2-chloroethyl) Ether	89.3	94.3	95	55-102
Phenol	82.3	94.3	87	53-101
2-Chlorophenol	82.3	94.3	87	59-101
Bis(2-chloroisopropyl) Ether	93.0	94.3	99	51-105
Hexachloroethane	79.7	94.3	84	50-98
N-Nitrosodi-n-propylamine	91.4	94.3	97	59-105
4-Methylphenol	79.5	94.3	84	52-108
Nitrobenzene	89.9	94.3	95	58-105
Isophorone	86.8	94.3	92	57-108
2-Nitrophenol	84.7	94.3	90	61-105
2,4-Dimethylphenol	48.3	94.3	51	29-105
Bis(2-chloroethoxy)methane	87.1	94.3	92	56-106
2,4-Dichlorophenol	84.6	94.3	90	59-106
1,2,4-Trichlorobenzene	81.2	94.3	86	53-101
Naphthalene	86.4	94.3	92	55-102
Hexachlorobutadiene	72.9	94.3	77	52-101
4-Chloro-3-methylphenol	79.0	94.3	84	60-112
Hexachlorocyclopentadiene	31.2	94.3	33	10-63
2,4,6-Trichlorophenol	89.4	94.3	95	65-112
2-Chloronaphthalene	85.3	94.3	90	57-106
Acenaphthylene	84.2	94.3	89	57-112
Dimethyl Phthalate	89.2	94.3	95	62-122
2,6-Dinitrotoluene	95.5	94.3	101	63-122
Acenaphthene	85.8	94.3	91	60-109
2,4-Dinitrophenol	77.8	94.3	82	32-123
4-Nitrophenol	96.1	94.3	102	51-125
2,4-Dinitrotoluene	88.3	94.3	94	56-127
Fluorene	86.5	94.3	92	56-115
4-Chlorophenyl Phenyl Ether	84.7	94.3	90	57-116
Diethyl Phthalate	92.7	94.3	98	54-135
2-Methyl-4,6-dinitrophenol	98.2	94.3	104	49-128
N-Nitrosodiphenylamine	92.1	94.3	98	48-122
1,2-Diphenylhydrazine	90.1	94.3	96	54-117
4-Bromophenyl Phenyl Ether	80.8	94.3	86	64-116

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Extracted: 07/20/2010
Date Analyzed: 07/30/2010 - 09/01/2010

Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 625

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1007331

	Lab Control Sample KWG1007331-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Hexachlorobenzene	79.7	94.3	84	61-116
Pentachlorophenol	71.5	94.3	76	52-117
Phenanthrene	83.4	94.3	88	64-113
Anthracene	85.0	94.3	90	62-114
Di-n-butyl Phthalate	94.8	94.3	100	63-125
Fluoranthene	90.1	94.3	95	60-120
Benzidine	144	189	76	10-202
Pyrene	86.1	94.3	91	57-115
Butyl Benzyl Phthalate	83.0	94.3	88	65-115
3,3'-Dichlorobenzidine	68.8	94.3	73	42-120
Benz(a)anthracene	77.8	94.3	83	66-113
Chrysene	79.2	94.3	84	64-113
Bis(2-ethylhexyl) Phthalate	84.3	94.3	89	61-120
Di-n-octyl Phthalate	94.3	94.3	100	64-128
Benzo(b)fluoranthene	81.0	94.3	86	64-115
Benzo(k)fluoranthene	87.9	94.3	93	62-119
Benzo(a)pyrene	85.9	94.3	91	57-119
Indeno(1,2,3-cd)pyrene	84.3	94.3	89	65-116
Dibenz(a,h)anthracene	88.1	94.3	93	64-119
Benzo(g,h,i)perylene	79.7	94.3	84	65-115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL003
Lab Code: K1007392-010

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	11000	50	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroethyl) Ether	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Phenol	ND	U	6200	50	07/27/10	08/16/10	KWG1008032	
2-Chlorophenol	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroisopropyl) Ether	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Hexachloroethane	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
N-Nitrosodi-n-propylamine	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
4-Methylphenol†	**95000**	D	2100	50	07/27/10	08/16/10	KWG1008032	*
Nitrobenzene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Isophorone	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2-Nitrophenol	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2,4-Dimethylphenol	ND	U	11000	50	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroethoxy)methane	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2,4-Dichlorophenol	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
1,2,4-Trichlorobenzene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Naphthalene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	*
Hexachlorobutadiene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
4-Chloro-3-methylphenol	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Hexachlorocyclopentadiene	ND	U	11000	50	07/27/10	08/16/10	KWG1008032	*
2,4,6-Trichlorophenol	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2-Chloronaphthalene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Acenaphthylene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Dimethyl Phthalate	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2,6-Dinitrotoluene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Acenaphthene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2,4-Dinitrophenol	ND	U	42000	50	07/27/10	08/16/10	KWG1008032	
4-Nitrophenol	ND	U	21000	50	07/27/10	08/16/10	KWG1008032	*
2,4-Dinitrotoluene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Fluorene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
4-Chlorophenyl Phenyl Ether	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Diethyl Phthalate	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
2-Methyl-4,6-dinitrophenol	ND	U	21000	50	07/27/10	08/16/10	KWG1008032	
N-Nitrosodiphenylamine	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	

Comments:

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name: M0A10SVL003
Lab Code: K1007392-010

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Azobenzene†	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
4-Bromophenyl Phenyl Ether	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Hexachlorobenzene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Pentachlorophenol	ND	U	21000	50	07/27/10	08/16/10	KWG1008032	
Phenanthrene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Anthracene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Di-n-butyl Phthalate	ND	U	4200	50	07/27/10	08/16/10	KWG1008032	*
Fluoranthene	**2800**	D	2100	50	07/27/10	08/16/10	KWG1008032	
Pyrene	**2300**	D	2100	50	07/27/10	08/16/10	KWG1008032	
Butyl Benzyl Phthalate	**6600**	D	2100	50	07/27/10	08/16/10	KWG1008032	
3,3'-Dichlorobenzidine	ND	U	21000	50	07/27/10	08/16/10	KWG1008032	*
Benz(a)anthracene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	*
Chrysene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	*
Bis(2-ethylhexyl) Phthalate	**31000**	D	21000	50	07/27/10	08/16/10	KWG1008032	*
Di-n-octyl Phthalate	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Benzo(b)fluoranthene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Benzo(k)fluoranthene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Benzo(a)pyrene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Indeno(1,2,3-cd)pyrene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Dibenz(a,h)anthracene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Benzo(g,h,i)perylene	ND	U	2100	50	07/27/10	08/16/10	KWG1008032	
Benzidine†	ND	U	42000	50	07/27/10	08/16/10	KWG1008032	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	0	11-80	08/16/10	Outside Control Limits
Phenol-d6	0	20-86	08/16/10	Outside Control Limits
Nitrobenzene-d5	0	27-91	08/16/10	Outside Control Limits
2-Fluorobiphenyl	85	25-97	08/16/10	Acceptable
2,4,6-Tribromophenol	105	10-119	08/16/10	Acceptable
Terphenyl-d14	143	33-129	08/16/10	Outside Control Limits

Comments:

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	M0A10SVL003	**Units:**	ug/Kg
Lab Code:	K1007392-010	**Basis:**	Dry

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
Azobenzene	1,2-Diphenylhydrazine is reported as Azobenzene.
Benzidine	This compound is searched for as a tentatively indentified compound.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1008032-3

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	30	1	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroethyl) Ether	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Phenol	ND	U	18	1	07/27/10	08/16/10	KWG1008032	
2-Chlorophenol	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroisopropyl) Ether	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Hexachloroethane	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
N-Nitrosodi-n-propylamine	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
4-Methylphenol†	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	*
Nitrobenzene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Isophorone	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2-Nitrophenol	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2,4-Dimethylphenol	ND	U	30	1	07/27/10	08/16/10	KWG1008032	
Bis(2-chloroethoxy)methane	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2,4-Dichlorophenol	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
1,2,4-Trichlorobenzene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Naphthalene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	*
Hexachlorobutadiene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
4-Chloro-3-methylphenol	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Hexachlorocyclopentadiene	ND	U	30	1	07/27/10	08/16/10	KWG1008032	*
2,4,6-Trichlorophenol	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2-Chloronaphthalene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Acenaphthylene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Dimethyl Phthalate	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2,6-Dinitrotoluene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Acenaphthene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2,4-Dinitrophenol	ND	U	120	1	07/27/10	08/16/10	KWG1008032	
4-Nitrophenol	ND	U	60	1	07/27/10	08/16/10	KWG1008032	*
2,4-Dinitrotoluene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Fluorene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
4-Chlorophenyl Phenyl Ether	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Diethyl Phthalate	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
2-Methyl-4,6-dinitrophenol	ND	U	60	1	07/27/10	08/16/10	KWG1008032	
N-Nitrosodiphenylamine	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	

Comments:

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1008032-3

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Azobenzene†	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
4-Bromophenyl Phenyl Ether	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Hexachlorobenzene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Pentachlorophenol	ND	U	60	1	07/27/10	08/16/10	KWG1008032	
Phenanthrene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Anthracene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Di-n-butyl Phthalate	ND	U	12	1	07/27/10	08/16/10	KWG1008032	*
Fluoranthene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Pyrene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Butyl Benzyl Phthalate	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
3,3'-Dichlorobenzidine	ND	U	60	1	07/27/10	08/16/10	KWG1008032	*
Benz(a)anthracene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	*
Chrysene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	*
Bis(2-ethylhexyl) Phthalate	ND	U	60	1	07/27/10	08/16/10	KWG1008032	*
Di-n-octyl Phthalate	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Benzo(b)fluoranthene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Benzo(k)fluoranthene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Benzo(a)pyrene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Indeno(1,2,3-cd)pyrene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Dibenz(a,h)anthracene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Benzo(g,h,i)perylene	ND	U	6.0	1	07/27/10	08/16/10	KWG1008032	
Benzidine†	ND	U	120	1	07/27/10	08/16/10	KWG1008032	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	60	11-80	08/16/10	Acceptable
Phenol-d6	71	20-86	08/16/10	Acceptable
Nitrobenzene-d5	69	27-91	08/16/10	Acceptable
2-Fluorobiphenyl	66	25-97	08/16/10	Acceptable
2,4,6-Tribromophenol	89	10-119	08/16/10	Acceptable
Terphenyl-d14	150	33-129	08/16/10	Outside Control Limits

Comments:

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1008032-3	**Basis:**	Dry

† Analyte Comments

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
Azobenzene	1,2-Diphenylhydrazine is reported as Azobenzene.
Benzidine	This compound is searched for as a tentatively indentified compound.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Soil

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541 **Units:** PERCENT
Analysis Method: 8270C **Level:** Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	Sur4	Sur5	Sur6
M0A10SVL003	K1007392-010	0 D #	0 D #	0 D #	85 D #	105 D #	143 D #
Method Blank	KWG1008032-3	60	71	69	66	89	150 *
Lab Control Sample	KWG1008032-1	57	74	78	62	81	89
Duplicate Lab Control Sample	KWG1008032-2	56	80	79	68	87	75

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	11-80	Sur5 = 2,4,6-Tribromophenol	10-119
Sur2 = Phenol-d6	20-86	Sur6 = Terphenyl-d14	33-129
Sur3 = Nitrobenzene-d5	27-91		
Sur4 = 2-Fluorobiphenyl	25-97		

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Extracted: 07/27/2010
Date Analyzed: 08/16/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1008032

	Lab Control Sample KWG1008032-1 Lab Control Spike			Duplicate Lab Control Sample KWG1008032-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
N-Nitrosodimethylamine	183	250	73	168	250	67	18-91	9	40
Bis(2-chloroethyl) Ether	182	250	73	163	250	65	29-86	11	40
Phenol	174	250	70	189	250	75	28-91	8	40
2-Chlorophenol	167	250	67	164	250	66	31-83	2	40
Bis(2-chloroisopropyl) Ether	179	250	72	167	250	67	23-88	7	40
Hexachloroethane	182	250	73	165	250	66	25-84	9	40
N-Nitrosodi-n-propylamine	205	250	82	191	250	77	24-89	7	40
4-Methylphenol	179	250	72	234	250	94 *	14-82	26	40
Nitrobenzene	192	250	77	185	250	74	29-87	4	40
Isophorone	177	250	71	183	250	73	33-83	3	40
2-Nitrophenol	160	250	64	171	250	68	33-89	7	40
2,4-Dimethylphenol	118	250	47	108	250	43	10-63	9	40
Bis(2-chloroethoxy)methane	173	250	69	182	250	73	33-85	5	40
2,4-Dichlorophenol	173	250	69	175	250	70	33-83	1	40
1,2,4-Trichlorobenzene	166	250	66	166	250	66	31-83	0	40
Naphthalene	158	250	63	230	250	92 *	32-84	37	40
Hexachlorobutadiene	178	250	71	173	250	69	28-87	3	40
4-Chloro-3-methylphenol	175	250	70	176	250	70	28-87	1	40
Hexachlorocyclopentadiene	122	250	49	189	250	76 *	10-66	43 *	40
2,4,6-Trichlorophenol	176	250	70	194	250	78	31-86	10	40
2-Chloronaphthalene	164	250	66	171	250	68	31-86	4	40
Acenaphthylene	158	250	63	166	250	66	33-87	5	40
Dimethyl Phthalate	175	250	70	189	250	76	38-91	8	40
2,6-Dinitrotoluene	175	250	70	188	250	75	36-94	7	40
Acenaphthene	155	250	62	161	250	64	35-83	4	40
2,4-Dinitrophenol	123	250	49	185	250	74	10-100	40	40
4-Nitrophenol	169	250	68	ND	250	0 *	32-110		40
2,4-Dinitrotoluene	182	250	73	166	250	66	40-98	9	40
Fluorene	157	250	63	175	250	70	36-87	11	40
4-Chlorophenyl Phenyl Ether	171	250	68	179	250	72	34-87	5	40
Diethyl Phthalate	186	250	74	191	250	77	39-98	3	40
2-Methyl-4,6-dinitrophenol	166	250	67	149	250	60	27-102	11	40
N-Nitrosodiphenylamine	177	250	71	80.0	250	32	29-92	75 *	40
Azobenzene	182	250	73	181	250	73	32-89	0	40
4-Bromophenyl Phenyl Ether	187	250	75	192	250	77	38-90	2	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Extracted: 07/27/2010
Date Analyzed: 08/16/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3541
Analysis Method: 8270C

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1008032

	Lab Control Sample KWG1008032-1 Lab Control Spike			Duplicate Lab Control Sample KWG1008032-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Hexachlorobenzene	191	250	76	189	250	75	39-90	1	40
Pentachlorophenol	126	250	50	209	250	84	21-97	50 *	40
Phenanthrene	168	250	67	129	250	52	41-90	26	40
Anthracene	170	250	68	210	250	84	35-93	21	40
Di-n-butyl Phthalate	210	250	84	418	250	167 *	40-116	66 *	40
Fluoranthene	185	250	74	173	250	69	42-103	7	40
Pyrene	177	250	71	157	250	63	42-105	12	40
Butyl Benzyl Phthalate	195	250	78	223	250	89	41-114	14	40
3,3'-Dichlorobenzidine	182	250	73	ND	250	0 *	13-98		40
Benz(a)anthracene	191	250	76	341	250	136 *	43-104	56 *	40
Chrysene	184	250	74	ND	250	0 *	47-104		40
Bis(2-ethylhexyl) Phthalate	208	250	83	203000E	250	81096*	40-122	200 *	40
Di-n-octyl Phthalate	201	250	80	251	250	100	43-119	22	40
Benzo(b)fluoranthene	198	250	79	197	250	79	45-106	1	40
Benzo(k)fluoranthene	195	250	78	182	250	73	47-105	7	40
Benzo(a)pyrene	178	250	71	164	250	66	35-109	8	40
Indeno(1,2,3-cd)pyrene	198	250	79	184	250	74	43-111	7	40
Dibenz(a,h)anthracene	190	250	76	194	250	78	44-110	2	40
Benzo(g,h,i)perylene	196	250	78	187	250	75	38-108	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organochlorine Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES001	**Units:**	ug/L
Lab Code:	K1007392-003	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
beta-BHC	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
gamma-BHC (Lindane)	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
delta-BHC	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Heptachlor	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Aldrin	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Heptachlor Epoxide	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
gamma-Chlordane†	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Endosulfan I	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
alpha-Chlordane	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Dieldrin	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
4,4'-DDE	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Endrin	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Endosulfan II	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
4,4'-DDD	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Endrin Aldehyde	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
4,4'-DDT	ND	Ui	0.092	5	07/21/10	08/27/10	KWG1007972	
Endrin Ketone	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Methoxychlor	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Toxaphene	ND	U	2.7	5	07/21/10	08/27/10	KWG1007972	
Chlordane	ND	U	1.1	5	07/21/10	08/27/10	KWG1007972	
Oxychlordane	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
2,4'-DDE	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
cis-Nonachlor	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
2,4'-DDD	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
trans-Nonachlor	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
2,4'-DDT	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	
Mirex	ND	U	0.053	5	07/21/10	08/27/10	KWG1007972	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES001	**Units:**	ug/L
Lab Code:	K1007392-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	70	20-102	08/27/10	Acceptable
Decachlorobiphenyl	94	35-128	08/27/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES002	**Units:**	ug/L
Lab Code:	K1007392-004	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
beta-BHC	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
gamma-BHC (Lindane)	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
delta-BHC	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Heptachlor	ND	Ui	0.013	1	07/21/10	08/18/10	KWG1007972	
Aldrin	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Heptachlor Epoxide	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
gamma-Chlordane†	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Endosulfan I	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
alpha-Chlordane	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Dieldrin	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDE	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Endrin	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Endosulfan II	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDD	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Endrin Aldehyde	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDT	**0.086**	P	0.011	1	07/21/10	08/18/10	KWG1007972	
Endrin Ketone	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Methoxychlor	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Toxaphene	ND	U	0.52	1	07/21/10	08/18/10	KWG1007972	
Chlordane	ND	U	0.21	1	07/21/10	08/18/10	KWG1007972	
Oxychlordane	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDE	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
cis-Nonachlor	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDD	**0.012**		0.011	1	07/21/10	08/18/10	KWG1007972	
trans-Nonachlor	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDT	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	
Mirex	ND	U	0.011	1	07/21/10	08/18/10	KWG1007972	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES002	**Units:**	ug/L
Lab Code:	K1007392-004	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	47	20-102	08/18/10	Acceptable
Decachlorobiphenyl	37	35-128	08/18/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1007972-9	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
beta-BHC	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
gamma-BHC (Lindane)	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
delta-BHC	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Heptachlor	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Aldrin	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Heptachlor Epoxide	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
gamma-Chlordane†	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Endosulfan I	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
alpha-Chlordane	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Dieldrin	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDE	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Endrin	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Endosulfan II	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDD	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Endrin Aldehyde	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
4,4'-DDT	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Endrin Ketone	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Methoxychlor	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Toxaphene	ND	U	0.50	1	07/21/10	08/18/10	KWG1007972	
Chlordane	ND	U	0.20	1	07/21/10	08/18/10	KWG1007972	
Oxychlordane	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDE	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
cis-Nonachlor	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDD	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
trans-Nonachlor	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
2,4'-DDT	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	
Mirex	ND	U	0.010	1	07/21/10	08/18/10	KWG1007972	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1007972-9	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	65	20-102	08/18/10	Acceptable
Decachlorobiphenyl	92	35-128	08/18/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
M0A10PES001	K1007392-003	70 D	94 D
M0A10PES002	K1007392-004	47	37
Method Blank	KWG1007972-9	65	92
Lab Control Sample	KWG1007972-1	60	93
Duplicate Lab Control Sample	KWG1007972-2	51	89

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	20-102
Sur2 =	Decachlorobiphenyl	35-128

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/21/2010
Sample Matrix:	Water	**Date Analyzed:**	08/18/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3535A	**Units:**	ug/L
Analysis Method:	8081A	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1007972

	Lab Control Sample KWG1007972-1 Lab Control Spike			Duplicate Lab Control Sample KWG1007972-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
alpha-BHC	0.150	0.200	75	0.133	0.200	67	36-122	12	30
beta-BHC	0.142	0.200	71	0.130	0.200	65	42-125	8	30
gamma-BHC (Lindane)	0.150	0.200	75	0.138	0.200	69	44-117	9	30
delta-BHC	0.159	0.200	80	0.147	0.200	74	48-123	8	30
Heptachlor	0.135	0.200	68	0.127	0.200	64	40-115	6	30
Aldrin	0.112	0.200	56	0.104	0.200	52	10-102	7	30
Heptachlor Epoxide	0.144	0.200	72	0.132	0.200	66	49-109	9	30
gamma-Chlordane	0.142	0.200	71	0.131	0.200	65	47-113	8	30
Endosulfan I	0.139	0.200	70	0.125	0.200	62	35-115	11	30
alpha-Chlordane	0.142	0.200	71	0.131	0.200	66	45-115	8	30
Dieldrin	0.148	0.200	74	0.136	0.200	68	50-115	8	30
4,4'-DDE	0.156	0.200	78	0.147	0.200	74	41-116	6	30
Endrin	0.152	0.200	76	0.138	0.200	69	48-126	9	30
Endosulfan II	0.138	0.200	69	0.127	0.200	63	28-128	9	30
4,4'-DDD	0.160	0.200	80	0.154	0.200	77	33-132	3	30
Endrin Aldehyde	0.106	0.200	53	0.102	0.200	51	27-104	4	30
4,4'-DDT	0.167	0.200	83	0.160	0.200	80	42-143	4	30
Endrin Ketone	0.151	0.200	76	0.139	0.200	69	30-124	8	30
Methoxychlor	0.159	0.200	80	0.156	0.200	78	43-143	2	30
Toxaphene	1.35	2.00	68	1.83	2.00	92	36-137	30	30
Chlordane	1.20	2.00	60	1.88	2.00	94	45-148	44 *	30
Oxychlordane	0.151	0.200	75	0.163	0.200	81	40-126	8	30
2,4'-DDE	0.177	0.200	89	0.151	0.200	75	29-126	16	30
cis-Nonachlor	0.151	0.200	75	0.162	0.200	81	42-125	7	30
2,4'-DDD	0.194	0.200	97	0.173	0.200	87	51-112	11	30
trans-Nonachlor	0.152	0.200	76	0.162	0.200	81	47-123	6	30
2,4'-DDT	0.207	0.200	103	0.185	0.200	92	51-117	11	30
Mirex	0.145	0.200	72	0.151	0.200	75	43-126	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organochlorine Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES003	**Units:**	ug/Kg
Lab Code:	K1007392-009	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
beta-BHC	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
gamma-BHC (Lindane)	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
delta-BHC	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Heptachlor	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Aldrin	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Heptachlor Epoxide	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
gamma-Chlordane†	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Endosulfan I	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
alpha-Chlordane	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Dieldrin	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
4,4'-DDE	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Endrin	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Endosulfan II	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
4,4'-DDD	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Endrin Aldehyde	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
4,4'-DDT	**180**	PD	25	5	07/27/10	08/18/10	KWG1007677	
Endrin Ketone	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Methoxychlor	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Toxaphene	ND	U	1300	5	07/27/10	08/18/10	KWG1007677	
Chlordane	ND	Ui	380	5	07/27/10	08/18/10	KWG1007677	
Oxychlordane	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
2,4'-DDE	**47**	D	25	5	07/27/10	08/18/10	KWG1007677	
cis-Nonachlor	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
2,4'-DDD	**27**	D	25	5	07/27/10	08/18/10	KWG1007677	
trans-Nonachlor	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
2,4'-DDT	ND	U	25	5	07/27/10	08/18/10	KWG1007677	
Mirex	ND	U	25	5	07/27/10	08/18/10	KWG1007677	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010

Organochlorine Pesticides

Sample Name:	M0A10PES003	**Units:**	ug/Kg
Lab Code:	K1007392-009	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	70	21-112	08/18/10	Acceptable
Decachlorobiphenyl	89	15-130	08/18/10	Acceptable

+ Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1007677-1	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
beta-BHC	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
gamma-BHC (Lindane)	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
delta-BHC	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Heptachlor	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Aldrin	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Heptachlor Epoxide	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
gamma-Chlordane†	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Endosulfan I	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
alpha-Chlordane	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Dieldrin	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
4,4'-DDE	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Endrin	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Endosulfan II	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
4,4'-DDD	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Endrin Aldehyde	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
4,4'-DDT	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Endrin Ketone	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Methoxychlor	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Toxaphene	ND	U	33	1	07/27/10	08/04/10	KWG1007677	
Chlordane	ND	U	6.5	1	07/27/10	08/04/10	KWG1007677	
Oxychlordane	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
2,4'-DDE	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
cis-Nonachlor	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
2,4'-DDD	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
trans-Nonachlor	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
2,4'-DDT	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	
Mirex	ND	U	0.65	1	07/27/10	08/04/10	KWG1007677	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1007677-1	**Basis:**	Dry

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	71	21-112	08/04/10	Acceptable
Decachlorobiphenyl	72	15-130	08/04/10	Acceptable

+ Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Soil

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3541 **Units:** PERCENT
Analysis Method: 8081A **Level:** Low

Sample Name	Lab Code	Sur1	Sur2
M0A10PES003	K1007392-009	70 D	89 D
Method Blank	KWG1007677-1	71	72
Batch QC	K1007527-001	69	75
Batch QCMS	KWG1007677-2	65	62
Batch QCDMS	KWG1007677-3	60	64
Duplicate Lab Control Sample	KWG1007677-10	71	68
Lab Control Sample	KWG1007677-4	75	69
Lab Control Sample	KWG1007677-5	65	64
Duplicate Lab Control Sample	KWG1007677-6	62	66
Lab Control Sample	KWG1007677-7	69	72
Duplicate Lab Control Sample	KWG1007677-8	70	68
Lab Control Sample	KWG1007677-9	66	69

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	21-112
Sur2 =	Decachlorobiphenyl	15-130

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/04/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1007527-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A	**Extraction Lot:**	KWG1007677

Analyte Name	Sample Result	Batch QCMS KWG1007677-2 Matrix Spike			Batch QCDMS KWG1007677-3 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
alpha-BHC	ND	11.8	17.0	70	10.8	16.8	65	23-133	9	40
beta-BHC	ND	12.9	17.0	76	12.4	16.8	74	22-142	4	40
gamma-BHC (Lindane)	ND	11.6	17.0	68	10.6	16.8	63	26-135	9	40
delta-BHC	ND	12.2	17.0	72	11.7	16.8	69	25-148	5	40
Heptachlor	ND	10.8	17.0	64	10.1	16.8	60	21-136	7	40
Aldrin	ND	12.3	17.0	72	11.0	16.8	65	22-135	11	40
Heptachlor Epoxide	ND	12.5	17.0	74	12.4	16.8	74	25-129	1	40
gamma-Chlordane	0.93	12.3	17.0	67	12.5	16.8	69	24-133	2	40
Endosulfan I	ND	10.6	17.0	62	10.0	16.8	60	15-119	6	40
alpha-Chlordane	ND	11.6	17.0	68	11.5	16.8	68	24-132	1	40
Dieldrin	ND	11.6	17.0	68	12.1	16.8	72	26-133	4	40
4,4'-DDE	ND	12.7	17.0	75	13.1	16.8	78	22-142	3	40
Endrin	ND	11.3	17.0	67	11.2	16.8	66	22-145	1	40
Endosulfan II	ND	10.9	17.0	64	11.2	16.8	67	13-129	3	40
4,4'-DDD	ND	11.1	17.0	66	11.7	16.8	69	19-143	5	40
Endrin Aldehyde	ND	9.79	17.0	58	9.64	16.8	57	10-129	1	40
Endosulfan Sulfate	ND	10.7	17.0	63	11.2	16.8	66	20-134	4	40
4,4'-DDT	ND	13.9	17.0	82 #	14.4	16.8	86 #	19-154	4	40
Endrin Ketone	ND	12.1	17.0	71	12.2	16.8	72	19-139	1	40
Methoxychlor	ND	10.4	17.0	61	10.5	16.8	63	24-151	1	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/04/2010

Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007677

	Lab Control Sample KWG1007677-4 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
alpha-BHC	15.8	20.0	79	36-139
beta-BHC	16.4	20.0	82	38-142
gamma-BHC (Lindane)	15.4	20.0	77	40-142
delta-BHC	15.5	20.0	78	48-145
Heptachlor	13.8	20.0	69	39-135
Aldrin	15.0	20.0	75	37-134
Heptachlor Epoxide	15.4	20.0	77	45-118
gamma-Chlordane	15.2	20.0	76	41-135
Endosulfan I	13.1	20.0	65	35-121
alpha-Chlordane	14.9	20.0	75	41-134
Dieldrin	15.7	20.0	78	46-136
4,4'-DDE	15.3	20.0	76	46-141
Endrin	14.5	20.0	72	40-152
Endosulfan II	13.3	20.0	66	39-128
4,4'-DDD	15.1	20.0	75	46-146
Endrin Aldehyde	13.7	20.0	69	32-132
Endosulfan Sulfate	14.3	20.0	71	43-138
4,4'-DDT	15.3	20.0	77	46-151
Endrin Ketone	15.6	20.0	78	47-135
Methoxychlor	13.4	20.0	67	42-147

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/04/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007677

	Lab Control Sample KWG1007677-5 Lab Control Spike			Duplicate Lab Control Sample KWG1007677-6 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	RPD Limit
Toxaphene	159	200	80	161	200	80	53-133	1	40
Chlordane	163	200	81	167	200	83	52-140	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/04/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007677

	Lab Control Sample KWG1007677-7 Lab Control Spike			Duplicate Lab Control Sample KWG1007677-8 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Oxychlordane	17.0	20.0	85	16.6	20.0	83	37-119	2	40
cis-Nonachlor	18.1	20.0	91	17.2	20.0	86	51-119	5	40
trans-Nonachlor	17.9	20.0	89	17.5	20.0	87	39-123	2	40
Mirex	15.6	20.0	78	14.8	20.0	74	38-123	6	40
Hexachlorobutadiene	18.4	20.0	92	17.5	20.0	88	31-109	5	40

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/04/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007677

	Lab Control Sample KWG1007677-9 Lab Control Spike			Duplicate Lab Control Sample KWG1007677-10 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
2,4'-DDE	16.0	20.0	80	15.4	20.0	77	49-112	4	40
2,4'-DDD	16.6	20.0	83	15.6	20.0	78	53-115	6	40
2,4'-DDT	15.4	20.0	77	14.7	20.0	74	44-120	5	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	M0A10PES001	**Units:**	ug/L
Lab Code:	K1007392-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1221	ND	U	0.42	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1232	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1242	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1248	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1254	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1260	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	64	36-113	08/10/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	M0A10PES002	**Units:**	ug/L
Lab Code:	K1007392-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1221	ND	U	0.42	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1232	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1242	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1248	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1254	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1260	ND	U	0.21	1	07/21/10	08/10/10	KWG1007973	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	53	36-113	08/10/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1007973-3	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1221	ND	U	0.40	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1232	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1242	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1248	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1254	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	
Aroclor 1260	ND	U	0.20	1	07/21/10	08/10/10	KWG1007973	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	89	36-113	08/10/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535 **Units:** PERCENT
Analysis Method: 8082 **Level:** Low

Sample Name	Lab Code	Sur1
M0A10PES001	K1007392-003	64
M0A10PES002	K1007392-004	53
Method Blank	KWG1007973-3	89
Lab Control Sample	KWG1007973-1	91
Duplicate Lab Control Sample	KWG1007973-2	84

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 36-113

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Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/21/2010
Sample Matrix:	Water	**Date Analyzed:**	08/10/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3535	**Units:**	ug/L
Analysis Method:	8082	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1007973

	Lab Control Sample KWG1007973-1 Lab Control Spike			Duplicate Lab Control Sample KWG1007973-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	1.60	2.00	80	1.72	2.00	86	41-113	7	30
Aroclor 1260	1.68	2.00	84	1.77	2.00	88	47-117	5	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Soil

Service Request: K1007392
Date Collected: 07/14/2010
Date Received: 07/16/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: M0A10PES003
Lab Code: K1007392-009

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	50	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1221	ND	U	99	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1232	ND	U	50	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1242	ND	U	50	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1248	ND	U	50	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1254	ND	U	50	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1260	ND	U	50	1	07/27/10	08/06/10	KWG1007676	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	25	35-133	08/06/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1007676-4	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1221	ND	U	13	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1232	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1242	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1248	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1254	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	
Aroclor 1260	ND	U	6.5	1	07/27/10	08/06/10	KWG1007676	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	117	35-133	08/06/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Soil

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** PERCENT
Analysis Method: 8082 **Level:** Low

Sample Name	Lab Code	Sur1
Lab Control Sample	KWG1007676-3	97
M0A10PES003	K1007392-009	25 *
Method Blank	KWG1007676-4	117
Batch QC	K1007401-001	123 D
Batch QCMS	KWG1007676-1	127 D
Batch QCDMS	KWG1007676-2	124 D

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

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Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/06/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K1007401-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG1007676

		Batch QCMS KWG1007676-1 Matrix Spike			Batch QCDMS KWG1007676-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	1600	191	840 *	1990	190	1047 *	27-174	22	40
Aroclor 1260	7100	7430	191	168 #	8430	190	695 #	20-185	13	40

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/27/2010
Sample Matrix:	Soil	**Date Analyzed:**	08/06/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8082	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007676

	Lab Control Sample KWG1007676-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Aroclor 1016	191	200	95	48-121
Aroclor 1260	205	200	103	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organophosphorus Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organophosphorus Pesticides

Sample Name:	M0A10PST001	**Units:**	ug/L
Lab Code:	K1007392-001	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.0	1	07/21/10	08/18/10	KWG1008403	
Methyl Parathion	ND	U	0.50	1	07/21/10	08/18/10	KWG1008403	
Malathion	ND	U	0.20	1	07/21/10	08/18/10	KWG1008403	
Ethyl Parathion	ND	U	0.50	1	07/21/10	08/18/10	KWG1008403	
Azinphos-methyl (Guthion)	ND	U	1.0	1	07/21/10	08/18/10	KWG1008403	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	211	43-148	08/18/10	Outside Control Limits
Triphenyl Phosphate	101	48-142	08/18/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Water	**Date Received:**	07/16/2010

Organophosphorus Pesticides

Sample Name:	M0A10PST002	**Units:**	ug/L
Lab Code:	K1007392-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.0	1	07/21/10	08/18/10	KWG1008403	
Methyl Parathion	ND	U	0.50	1	07/21/10	08/18/10	KWG1008403	
Malathion	ND	U	0.20	1	07/21/10	08/18/10	KWG1008403	
Ethyl Parathion	ND	U	0.50	1	07/21/10	08/18/10	KWG1008403	
Azinphos-methyl (Guthion)	ND	U	0.99	1	07/21/10	08/18/10	KWG1008403	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	185	43-148	08/18/10	Outside Control Limits
Triphenyl Phosphate	100	48-142	08/18/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1008403-3	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.0	1	07/21/10	08/17/10	KWG1008403	
Methyl Parathion	ND	U	0.50	1	07/21/10	08/17/10	KWG1008403	
Malathion	ND	U	0.20	1	07/21/10	08/17/10	KWG1008403	
Ethyl Parathion	ND	U	0.50	1	07/21/10	08/17/10	KWG1008403	
Azinphos-methyl (Guthion)	ND	U	0.99	1	07/21/10	08/17/10	KWG1008403	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	87	43-148	08/17/10	Acceptable
Triphenyl Phosphate	89	48-142	08/17/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A **Units:** PERCENT
Analysis Method: 8141A **Level:** Low

Sample Name	Lab Code	Sur1		Sur2
M0A10PST001	K1007392-001	211	*	101
M0A10PST002	K1007392-002	185	*	100
Method Blank	KWG1008403-3	87		89
Lab Control Sample	KWG1008403-1	94		89
Duplicate Lab Control Sample	KWG1008403-2	96		91

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	43-148
Sur2 =	Triphenyl Phosphate	48-142

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1007392
Date Extracted: 07/21/2010
Date Analyzed: 08/17/2010 - 08/18/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8141A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1008403

	Lab Control Sample KWG1008403-1 Lab Control Spike			Duplicate Lab Control Sample KWG1008403-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	0.975	2.00	49	0.918	2.00	46	10-130	6	30
Methyl Parathion	1.58	2.00	79	1.55	2.00	77	41-160	2	30
Malathion	1.81	2.00	91	1.78	2.00	89	34-146	2	30
Ethyl Parathion	1.60	2.00	80	1.57	2.00	79	39-140	2	30
Azinphos-methyl (Guthion)	1.93	2.00	96	2.01	2.00	101	31-179	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organophosphorus Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010

Organophosphorus Pesticides

Sample Name:	M0A10PST003	**Units:**	mg/Kg
Lab Code:	K1007392-008	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	6.8	10	07/28/10	09/03/10	KWG1007844	
Methyl Parathion	ND	U	3.4	10	07/28/10	09/03/10	KWG1007844	
Malathion	ND	U	3.4	10	07/28/10	09/03/10	KWG1007844	
Ethyl Parathion	ND	U	3.4	10	07/28/10	09/03/10	KWG1007844	
Azinphos-methyl (Guthion)	ND	U	3.4	10	07/28/10	09/03/10	KWG1007844	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	1062	38-158	09/03/10	Outside Control Limits
Triphenyl Phosphate	602	35-163	09/03/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	07/14/2010
Sample Matrix:	Soil	**Date Received:**	07/16/2010

Organophosphorus Pesticides

Sample Name:	M0A10PES003	**Units:**	mg/Kg
Lab Code:	K1007392-009	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	7.5	10	07/28/10	09/03/10	KWG1007844	
Methyl Parathion	ND	U	3.8	10	07/28/10	09/03/10	KWG1007844	
Malathion	ND	U	3.8	10	07/28/10	09/03/10	KWG1007844	
Ethyl Parathion	ND	U	3.8	10	07/28/10	09/03/10	KWG1007844	
Azinphos-methyl (Guthion)	ND	U	3.8	10	07/28/10	09/03/10	KWG1007844	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	279	38-158	09/03/10	Outside Control Limits
Triphenyl Phosphate	402	35-163	09/03/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1007844-3	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.10	1	07/28/10	09/03/10	KWG1007844	
Methyl Parathion	ND	U	0.050	1	07/28/10	09/03/10	KWG1007844	
Malathion	ND	U	0.050	1	07/28/10	09/03/10	KWG1007844	
Ethyl Parathion	ND	U	0.050	1	07/28/10	09/03/10	KWG1007844	
Azinphos-methyl (Guthion)	ND	U	0.050	1	07/28/10	09/03/10	KWG1007844	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	85	38-158	09/03/10	Acceptable
Triphenyl Phosphate	91	35-163	09/03/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1007392
Project:
Sample Matrix: Soil

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3540C **Units:** PERCENT
Analysis Method: 8141A **Level:** Low

Sample Name	Lab Code	Sur1	Sur2
M0A10PST003	K1007392-008	1062 D #	602 D #
M0A10PES003	K1007392-009	279 D #	402 D #
Method Blank	KWG1007844-3	85	91
Lab Control Sample	KWG1007844-1	101	104
Duplicate Lab Control Sample	KWG1007844-2	90	87

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	38-158
Sur2 =	Triphenyl Phosphate	35-163

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1007392
Project:		**Date Extracted:**	07/28/2010
Sample Matrix:	Soil	**Date Analyzed:**	09/03/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method:	EPA 3540C	**Units:**	mg/Kg
Analysis Method:	8141A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1007844

	Lab Control Sample KWG1007844-1 Lab Control Spike			Duplicate Lab Control Sample KWG1007844-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	0.125	0.267	47	0.138	0.267	52	10-127	9	40
Methyl Parathion	0.224	0.267	84	0.218	0.267	82	43-142	3	40
Malathion	0.214	0.267	80	0.213	0.267	80	41-123	0	40
Ethyl Parathion	0.237	0.267	89	0.226	0.267	85	45-127	5	40
Azinphos-methyl (Guthion)	0.208	0.267	78	0.213	0.267	80	33-156	2	40

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

August 03, 2010

Annie Adkins
SGS North America, Inc.
200 W Potter Dr.
Anchorage, AK 99518

RE: MOA Discharge

Enclosed are the results of analyses for samples received by the laboratory on 07/16/10 09:30. The following list is a summary of the Work Orders contained in this report, generated on 08/03/10 12:18.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PTG0439	MOA Discharge	PO# 1103452

TestAmerica Portland

Estella Rieben, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MOA10V0P019	PTG0439-01	Other wet	07/14/10 05:50	07/16/10 09:30
TRIP BLANK	PTG0439-02	Other wet	07/16/10 00:00	07/16/10 09:30

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

Purgeables per EPA Method 624 Modified

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0439-01RE1 (MOA10V0P019)			**Other wet**			**Sampled: 07/14/10 05:50**				**P13, A-01a, A-02**
Benzene	EPA 624	ND	-----	78.3	ug/kg	1x	10G0761	07/26/10 13:41	07/28/10 19:07	
Bromodichloromethane	"	ND	-----	78.3	"	"	"	"	"	
Bromoform	"	ND	-----	78.3	"	"	"	"	"	
Bromomethane	"	ND	-----	392	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	78.3	"	"	"	"	"	
Chlorobenzene	"	ND	-----	78.3	"	"	"	"	"	
Chloroethane	"	ND	-----	392	"	"	"	"	"	
Chloroform	"	ND	-----	78.3	"	"	"	"	"	
Chloromethane	"	ND	-----	392	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	78.3	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	78.3	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	78.3	"	"	"	"	"	
1,4-Dichlorobenzene	"	**133**	-----	78.3	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	78.3	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	78.3	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	78.3	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	78.3	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	78.3	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	78.3	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	78.3	"	"	"	"	"	
Ethylbenzene	"	ND	-----	78.3	"	"	"	"	"	
Methylene chloride	"	ND	-----	392	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	78.3	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	78.3	"	"	"	"	"	
Toluene	"	**932**	-----	78.3	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	78.3	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	78.3	"	"	"	"	"	
Trichloroethene	"	ND	-----	78.3	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	78.3	"	"	"	"	"	
Vinyl chloride	"	ND	-----	78.3	"	"	"	"	"	

Surrogate(s):	*Dibromofluoromethane*	*101%*	*80 - 120 %*	*0.01x*	*"*
	1,2-DCA-d4	*99.0%*	*75 - 130 %*	*"*	*"*
	Toluene-d8	*101%*	*80 - 120 %*	*"*	*"*
	4-BFB	*108%*	*75 - 120 %*	*"*	*"*

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

Purgeables per EPA Method 624 Modified

TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0439-02 (TRIP BLANK)				**Other wet**		**Sampled: 07/16/10 00:00**				
Benzene	EPA 624	ND	-----	10.0	ug/kg	1x	10G0761	07/26/10 13:41	07/27/10 00:48	
Bromodichloromethane	"	ND	-----	10.0	"	"	"	"	"	
Bromoform	"	ND	-----	10.0	"	"	"	"	"	
Bromomethane	"	ND	-----	50.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	10.0	"	"	"	"	"	
Chlorobenzene	"	ND	-----	10.0	"	"	"	"	"	
Chloroethane	"	ND	-----	50.0	"	"	"	"	"	
Chloroform	"	ND	-----	10.0	"	"	"	"	"	
Chloromethane	"	ND	-----	50.0	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	10.0	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	10.0	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	10.0	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	10.0	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	10.0	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	10.0	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	10.0	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	10.0	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	10.0	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	10.0	"	"	"	"	"	
Ethylbenzene	"	ND	-----	10.0	"	"	"	"	"	
Methylene chloride	"	ND	-----	50.0	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	10.0	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	10.0	"	"	"	"	"	
Toluene	"	**270**	-----	10.0	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	10.0	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	10.0	"	"	"	"	"	
Trichloroethene	"	ND	-----	10.0	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	10.0	"	"	"	"	"	
Vinyl chloride	"	ND	-----	10.0	"	"	"	"	"	
Surrogate(s):	*Dibromofluoromethane*			*96.0%*		*80 - 120 %*	*0.01x*		*"*	
	1,2-DCA-d4			*99.8%*		*75 - 130 %*	*"*		*"*	
	Toluene-d8			*96.4%*		*80 - 120 %*	*"*		*"*	
	4-BFB			*193%*		*75 - 120 %*	*"*		*"*	***A-01***

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10G0761 **Other wet Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0761-BLK1)								Extracted: 07/26/10 13:41						
Benzene	EPA 624	ND	---	9.98	ug/kg	1x	--	--	--	--	--	--	07/26/10 23:53	
Bromodichloromethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	49.9	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	49.9	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	49.9	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	49.9	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	9.98	"	"	--	--	--	--	--	--	"	

Surrogate(s):	*Recovery:*	*Limits:*		
Dibromofluoromethane	*104%*	*80-120%*	*0.01x*	*07/26/10 23:53*
1,2-DCA-d4	*105%*	*75-130%*	*"*	*"*
Toluene-d8	*103%*	*80-120%*	*"*	*"*
4-BFB	*95.8%*	*75-120%*	*"*	*"*

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10G0761 **Other wet Preparation Method: EPA 5035A**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (10G0761-BS1)								**Extracted: 07/26/10 13:41**						
Benzene	EPA 624	2010	---	9.97	ug/kg	1x	--	1990	101%	(80-120)	--	--	07/26/10 22:04	
Bromodichloromethane	"	2060	---	9.97	"	"	--	"	103%	"	--	--	"	
Bromoform	"	1490	---	9.97	"	"	--	"	74.9%	(55-125)	--	--	"	
Bromomethane	"	1920	---	49.9	"	"	--	"	96.2%	(55-140)	--	--	"	
Carbon tetrachloride	"	1840	---	9.97	"	"	--	"	92.4%	(70-125)	--	--	"	
Chlorobenzene	"	1990	---	9.97	"	"	--	"	99.8%	(80-120)	--	--	"	
Chloroethane	"	1940	---	49.9	"	"	--	"	97.0%	(70-130)	--	--	"	
Chloroform	"	2050	---	9.97	"	"	--	"	103%	(80-120)	--	--	"	
Chloromethane	"	1940	---	49.9	"	"	--	"	97.1%	(60-135)	--	--	"	
Dibromochloromethane	"	1620	---	9.97	"	"	--	"	81.3%	(65-125)	--	--	"	
1,2-Dichlorobenzene	"	1960	---	9.97	"	"	--	"	98.5%	(80-120)	--	--	"	
1,3-Dichlorobenzene	"	1920	---	9.97	"	"	--	"	96.0%	(75-125)	--	--	"	
1,4-Dichlorobenzene	"	1890	---	9.97	"	"	--	"	94.8%	(70-125)	--	--	"	
1,1-Dichloroethane	"	2100	---	9.97	"	"	--	"	106%	(80-120)	--	--	"	
1,2-Dichloroethane	"	2070	---	9.97	"	"	--	"	104%	(75-125)	--	--	"	
1,1-Dichloroethene	"	1990	---	9.97	"	"	--	"	99.6%	"	--	--	"	
trans-1,2-Dichloroethene	"	2020	---	9.97	"	"	--	"	101%	(80-120)	--	--	"	
1,2-Dichloropropane	"	2050	---	9.97	"	"	--	"	103%	(75-125)	--	--	"	
cis-1,3-Dichloropropene	"	1790	---	9.97	"	"	--	"	89.9%	(80-125)	--	--	"	
trans-1,3-Dichloropropene	"	1710	---	9.97	"	"	--	"	85.8%	(80-130)	--	--	"	
Ethylbenzene	"	1960	---	9.97	"	"	--	"	98.3%	(75-125)	--	--	"	
Methylene chloride	"	1970	---	49.9	"	"	--	"	98.6%	"	--	--	"	
1,1,2,2-Tetrachloroethane	"	1800	---	9.97	"	"	--	"	90.4%	(75-135)	--	--	"	
Tetrachloroethene	"	2020	---	9.97	"	"	--	"	101%	(75-125)	--	--	"	
Toluene	"	1980	---	9.97	"	"	--	"	99.4%	"	--	--	"	
1,1,1-Trichloroethane	"	2020	---	9.97	"	"	--	"	101%	(75-130)	--	--	"	
1,1,2-Trichloroethane	"	1980	---	9.97	"	"	--	"	99.4%	(80-125)	--	--	"	
Trichloroethene	"	2000	---	9.97	"	"	--	"	100%	(75-125)	--	--	"	
Trichlorofluoromethane	"	2040	---	9.97	"	"	--	"	102%	(70-135)	--	--	"	
Vinyl chloride	"	839	---	9.97	"	"	--	"	42.1%	(70-130)	--	--	"	L5

Surrogate(s):	*Dibromofluoromethane*	*Recovery:*	*102%*	*Limits:* *80-120%*	*0.01x*	*07/26/10 22:04*
	1,2-DCA-d4		*101%*	*75-130%*	*"*	*"*
	Toluene-d8		*99.2%*	*80-120%*	*"*	*"*
	4-BFB		*91.4%*	*75-120%*	*"*	*"*

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

SGS North America, Inc.	Project Name:	**MOA Discharge**	
200 W Potter Dr.	Project Number:	PO# 1103452	Report Created:
Anchorage, AK 99518	Project Manager:	Annie Adkins	08/03/10 12:18

Notes and Definitions

Report Specific Notes:

A-01	-	BFB was added to sample before recieved. Assuming 20ppb originally, surrogate passes.
A-01a	-	Sample was analyzed as a soil. due to high absorption of methanol a portion of the sample was removed and an additional 30ml of methanol was used to extract.
A-02	-	The method requested is a water matrix method. The sample submitted was a sludge. The method was not appropriate for this matrix. Sample was prepped as a soil/sludge and the 624 analyte list reported.
L5	-	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
P13	-	Sample volume, as received, was inappropriate to meet method specifications.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

Estella K Rieben

Estella Rieben, Project Manager

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SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

PTG0439

CLIENT: **SGS AK**
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 11034452

SGS Reference #: Test America OR

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C= COMP G= GRAB / MI= Multi Incremental Soils	EPA 624									REMARKS/ LOC ID
	MOA10VOP019	7/14/10	0550	Sludge	1											1103152007(G)
																1103152008(A)

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	7/14/10	1100	7/16/10 930
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

DOD Project? YES NO
Cooler ID _____
Special Deliverable Requirements:

Requested Turnaround Time and-or Special Instructions:
Methanol has been absorbed.

Temperature Blank °C: 3.1°C
See attached Sample Receipt Form

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT
(See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PTG0439 Date/Time Received: 7/16/10 930

Client Name and Project: SGS MOA

Time Zone:

☐EDT/EST ☐CDT/CST ☐MDT/MST ☐PDT/PST ☑AK ☐OTHER

Unpacking Checks:

Cooler #(s): 1 _____ _____ _____ _____

Temperatures: 3.1 _____ _____ _____ _____

Digi #1 Digi #2 IR Gun

☑ ☐ ☐ (☐Plastic ☐Glass)

Temperature out of Range:

__Not enough or No Ice

__Ice Melted

__W/in 4 Hrs of collection

__Other:_____

Initials: fm

N/A	Yes	No	
☐	☑	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☐	☑	☐	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
	☑	☐	3. Chain of Custody present? If no, document on NOD.
	☑	☐	4. Bottles received intact? If no, document on NOD.
	☑	☐	5. Sample is not multiphasic? If no, document on NOD.
	☑	☐	6. Proper Container and preservatives used? If no, document on NOD.
☑	☐	☐	7. pH of all samples checked and meet requirements? If no, document on NOD.
☑	☐	☐	8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☑	☐	☐	9. HF Dilution required?
	☑	☐	10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
	☑	☐	11. Did chain of custody agree with samples received? If no, document on NOD.
	☐	☑	12. Is the "Sampled by" section of the COC completed?
☑	☐	☐	13. Were VOA/Oil Syringe samples without headspace?
☑	☐	☐	14. Were VOA vials preserved? ☐HCl ☐Sodium Thiosulfate ☐Ascorbic Acid
	☐	☑	15. Did samples require preservation with sodium thiosulfate?
☑	☐	☐	16. If yes to #15, was the residual chlorine test negative? If no, document on NOD.
☑	☐	☐	17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☑	☐	☐	18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
☑	☐	☐	19. Are analyses with short holding times received in hold?
	☑	☐	20. Was Standard Turn Around (TAT) requested?
	☑	☐	21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

MeOH was absorbed in sample. PS

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PTG0439

Login Checks:

Initials: PS

N/A	Yes	No	
	☑	☐	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
☑	☐	☐	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.
	☑	☐	24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?
☑	☐	☐	25. Were special log in instructions read and followed?
	☑	☐	26. Were tests logged checked against the COC?
☑	☐	☐	27. Were rush notices printed and delivered?
☑	☐	☐	28. Were short hold notices printed and delivered?
☑	☐	☐	29. Were subcontract COCs printed?
☑	☐	☐	30. Was HF dilution logged?

Labeling and Storage Checks:

Initials: PS

N/A	Yes	No	
☑	☐	☐	31. Were the subcontracted samples/containers put in Sx fridge?
☑	☐	☐	32. Were sample bottles and COC double checked for dissolved/filtered metals?
	☑	☐	33. Did the sample ID, Date, and Time from label match what was logged?
☑	☐	☐	34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge?
☑	☐	☐	35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
☐	☑	☐	36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10DXN001 (1)	B-C Influent	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		
MOA10DXN002 (2)	B-C Effluent	2			
			Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	[illegible]	7/14 1310
G. Lawley	7/14 1345	hand	—	
			[signature]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's dry\MOA10_dry_COC.doc

DAY 1

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:	
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	**Preservative:** NaOH, Effluent sample contains ascorbic acid, 6°C	**Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10TCN009 (1) A	Influent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		
MOA10TCN010 (2) A	Effluent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		use AA fill bottle for EFF

1103452

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MS 7/14/10 1310	—	hand	[signature]	7/14 1310
G Lawley	7/14 1345	hand		
			[signature]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 1664 Oil & Grease

MATRIX: Water	**Preservative:** HCL, 6°C	**Type of Container:** 1-L Amber

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10O&G001 (1) D-E	Influent	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		
MOA10O&G002 (2) D-E	Effluent	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MJS 7/14/10 1310	—	hand	[illegible]	7/14 1310
G. LAWLEY	7/14 1349	hand		
			[illegible]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Pesticides: EPA 614 for Demeton, Guthion, Malathion, and Parathion only. Detection limits 0.05 - 1.0 µg/L (Guthion ~15 µg/L).

MATRIX: Water	**Preservative: :** None, 6°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10PST001 ① F-G	Influent	2 b	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		✓
✓ MOA10PST002 ② F-G	Effluent	2 b	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		✓

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10	1310	hand	[illegible]	7/14 1310
G Lawley	7/14 1349	hand		
			[illegible]	7/14/10 1349

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Pesticides: EPA 608 plus Mirex Detection limits 0.05 - 1.0 µg/L

MATRIX: Water	**Preservative:** None, 6°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10PES001 (1)	H-I Influent-1	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		✓
✓ MOA10PES002 (2)	H-I Effluent	2			✓
			Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10	1310	hand	[illegible]	7/14 1310
G Lawley	7/14 1349	hand		
			[illegible]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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DAY 1

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: : (By EPA 200.8/245.1) Ag, As, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl, Zn, Hg

MATRIX: Water	**Preservative:** 6°C, Total metals w/ HNO3	**Type of Container:** 250ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10MET001 (1) (J)	Influent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		Analyze for total metals
MOA10MET002 (5) A-B	Influent	1			Analyze for dissolved metals
MOA10MET003 (2) J	Effluent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		Analyze for total metals
MOA10MET004 (6) A-B	Effluent	1			Analyze for dissolved metals

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310				1310
G Lawley	7/14 1349			
				7/14/10

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 9010B Mod. Total cyanide.

MATRIX: Water	**Preservative:**	**Type of Container:**

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10TCN021 (7) A	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10 1310	—	hand	G Lay	14 1310
G Lawley	7/14 1349	hand		
			[illegible]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: organo pesticides

MATRIX: Water	**Preservative:**	**Type of Container:**

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10PST003 (7)B	Sludge	1	7/14/10 0550	0°	

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10	1310	hand	[illegible]	14 1310
G. Lawley	7/14 1349	hand		
			[illegible]	7/14/10 1351

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

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SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Pesticides: EPA 8081A plus Mirex, and EPA 8141A for Demeton, Guthion, Malathion, and Parathion only. Detection limits 0.01 - 0.06 µg/g (dry weight; Guthion ~5 µg/g). PCBs (EPA 8082). Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 6°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10PES003 (7)C	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	[signature]	14 1310
G. Lawley	7/14 1349	hand		
			[signature]	7/14/10 1319

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

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1103452

Required Completion Date: 30 days	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 625. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 6°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10SVL001 (1)	K-L Influent	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		
MOA10SVL002 (2)	K-L Effluent	4	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		
(3)	A (MS)				
(4)	A (MSD)				

Please Note!!
Please perform Matrix Spike and matrix spike dup on the extra volume supplied w/ MOA10SVL002 EFFLUENT

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

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RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	[signature]	7/14 1310
G. LAWLEY	7/14 1349	hand		
			[signature]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method. Please report in dry weight

MATRIX: Sludge	**Preservative:** None, 6°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10DXN003 (7) D	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MS 7/14/10 1310	—	[illegible]	[illegible]	7/14/10 1310
[illegible]	7/14 1349	[illegible]		
			[illegible]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

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SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 8270C. **Report using EPA 625 analyte list.** Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** Chilled to 6ºC	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10SVL003 (7) E	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10	1310	hand	[illegible]	7/14/10 1310
G. Lawley	7/14 1345	hand		
			[illegible]	7/14/10 1345

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Total Metals: by EPA 6000/7000 Series Method in sludge. Ag, As, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl, Zn and cyanide (EPA 9010B), and percent solids (SM18 2540G). Detection limit 0.3 µg/g (dry weight). Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 6°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10MET005 (7) F	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
PWS 7/14/10 1310		hand	G. Lawley	7/14/10 1310
G. Lawley	7/14 1345	hand		
				7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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V

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: SW 8082, PCB's

MATRIX: Water	**Preservative:**	**Type of Container:**

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10PCB001 (7) H	Sludge	1	7/14/10 0550		
(8) ~~A~~ FAT 7/14/10					

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	G. Lawley	14 1310
G. LAWLEY	7/14 1349	hand	—	
				7/14/10 1349

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Kinnetic Laboratories, Inc. Chain of Custody Record

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SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 8260. **Report using EPA 624 analyte list.** Detection limits as per method. Please report in dry weight..

MATRIX: Water	**Preservative:** ~~None~~ MEOH, 6° C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOP019 (7)G	Sludge	1	7/14/P0550		-preserve w/ MEOH
(8)A					After sampling

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	[illegible]	7/14/10 1310
[illegible]	7/14 1341	hand		
			[illegible]	7/14/10 1349

SAMPLED BY (NAME/SIGNATURE): _____

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SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCL, Flood samples contain ascorbic acid. 6°C	**Type of Container:** 40 ml glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA001 (9) A-C	F1-1S	3	7/13 1600		
MOA10VOA002 (10) A-C	F1-2S	3	7/13 1640		
~~MOA10VOA003~~	F1-2S	3			demoted sample #
MOA10VOA004 (11) A-C	F1-3S	3	7/13 1650		
~~MOA10VOA005~~	C1-1S	6			
~~MOA10VOA006~~	C1-2S	3	tomorrows		
~~MOA10VOA007~~	C1-3S	3			

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15/1312			
			[signature]	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:	
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCL, 6°C	**Type of Container:** 40 ml glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
V MOA10VOA008 (12)	A-C C-Station	3	7/14/10 1145		Fill at AWWU Lab w/ DI water.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
AWS 7/14/10 1310		hand	[signature]	1310
[signature]	7/15 1310	hand		
			Katherine Dawson	7/15/10 1316

SAMPLED BY (NAME/SIGNATURE): _____

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SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 6°C ~~Effluent samples contain L-Ascorbic Acid~~	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOP017 (13) A-C	C-Station	3	7/14/10 1145		
MOA10VOP018 (14) A-C	Trip Blank	3			

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

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RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310		hand	[signature]	1310
[signature]	7/15 1310			
			Katherine Bauer	7/15/10 1316

SAMPLED BY (NAME/SIGNATURE): _____

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Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl,6°C	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOP001 (15) A-C	INF CMP #1	3	7/13/10 0910		
MOA10VOP002 (16) A-C	INF CMP #2	3	1208		
MOA10VOP003 (17) A-C	INF CMP #3	3	1503		
MOA10VOP004 (18) A-C	INF CMP #4	3	1805		
MOA10VOP005 (19) A-C	INF CMP #5	3	2105		
MOA10VOP006 (20) A-C	INF CMP #6	3	2355		
MOA10VOP007 (21) A-C	INF CMP #7	3	7/14/10 0300		
MOA10VOP008 (22) A-C	INF CMP #8	3	7/14/10 0610		

SAMPLES LISTED ON THIS COC SHOULD BE COMPOSITED IN AN EIGHT-PART COMPOSITE IN A VAPOR-TYPE SYRINGE PRIOR TO ANALYSIS.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

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RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/14/10 1310	—	hand	[signature]	7/14 1310
[signature]	7/15 1310	hand		
~~Katherine Bauer~~	~~7/15/10 1310~~ KMB 7/15/10		Katherine Bauer	7/15 1310

SAMPLED BY (NAME/SIGNATURE): _____

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Required Completion Date: 30 days.	P.O. #: AK10-1005 / KLI Proj. #:506.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 6°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOP009	23 A-C EFF CMP #1	3	7/13/10 0905		
MOA10VOP010	24 A-C EFF CMP #2	3	1159		
MOA10VOP011	25 A-C EFF CMP #3	3	1453 ~~1353~~		
MOA10VOP012	26 A-C EFF CMP #4	3	1800		
MOA10VOP013	27 A-C EFF CMP #5	3	2110		
MOA10VOP014	28 A-C EFF CMP #6	3	7/14/10 0005		
MOA10VOP015	29 A-C EFF CMP #7	3	0305		
MOA10VOP016	30 A-C EFF CMP #8	3	0600		
	31 A-C (MS)				
	32 A-C (MSD)				

SAMPLES LISTED ON THIS COC SHOULD BE COMPOSITED IN AN EIGHT-PART COMPOSITE IN A VAPOR-TYPE SYRINGE PRIOR TO ANALYSIS.

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RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/14/10	1310	hand	[signature]	14 1310
[signature]	7/15 1310	hand		
			Katherine Bauer	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

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Kinnetic Laboratories, Inc. Chain of Custody Record

1103452

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
E1-1S	MOA10CLR001	1	7/13/10 0915		
E1-2S	MOA10CLR002	1	0925		
E1-3S	MOA10CLR003	1	0936		
E1-4S	MOA10CLR004	1	0952		
E2-1S	MOA10CLR005	1	1113		
E2-2S	MOA10CLR006	1	1116		
E2-3S	MOA10CLR007	1	1124		
E2-4S	MOA10CLR008	1	1138		
E3-1S	MOA10CLR009	1	1317		
E3-2S (B4A)	MOA10CLR010	1	1326		
E3-3S	MOA10CLR011	1	1343		
E3-4S	MOA10CLR012	1	1407		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1703	hand		
			[signature]	7/15/10 1703

SAMPLED BY (NAME/SIGNATURE): _____

TB: 12.6 #202

Kinnetic Laboratories, Inc. Chain of Custody Re

1103452

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
(15) A F1-1S	MOA10CLR013	1	7/13/10 1600		
(16) F1-2S	MOA10CLR014	1	1640		
(17) F1-3S	MOA10CLR015	1	1650		
(18) F1-4S	MOA10CLR016	1	1714		
(19) F2-1S	MOA10CLR017	1	1748		
(20) F2-2S	MOA10CLR018	1	1755		
(21) F2-3S	MOA10CLR019	1	1802		
(22) F2-4S (85) A	MOA10CLR020	1	1814		
(23) F3-1S	MOA10CLR021	1	1930		
(24) F3-2S	MOA10CLR022	1	1935		
(25) F3-3S	MOA10CLR023	1	1940		
(26) F3-4S (86) A	MOA10CLR024	1	1956		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
A Lawley 1703	7/15 1703	hand		
				7/15/10 1703

SAMPLED BY (NAME/SIGNATURE): _____

TB: 17.6 # 202

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Kinnetic Laboratories, Inc. Chain of Custody Record

1103452

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCL, Flood samples contain ascorbic acid. 6°C	**Type of Container:** 40 ml glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA001	F1-1S	3	7/14/10		
MOA10VOA002	F1-2S	3			
~~MOA10VOA003~~	F1-2S	3			demoted sample #
MOA10VOA004	F1-3S	3			
MOA10VOA005 (57) A-C (58) A-B (59) A	C1-1S	6	7/14 1725		extra volume for MS/SD
MOA10VOA006 (60) A-C	C1-2S	3	7/14 1738		
MOA10VOA007 (61) A-C	C1-3S	3	7/14 1755		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1307	hand		
			Katherine Bauer	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

1.2 #202

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 40 ml VOA Vial

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA009 (L02) A-C	C-STATION	3	7/14 1738		
MOA10VOA010 (L03) A-C	TRIP BLANK	3	NA		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1307	hand		
			[signature]	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 30 days.	P.O. #: AK10-1005 — KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water | **Preservative:** None, 6°C | **Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
C1-1S (68) A	MOA10CLR025	1	7/14/10 1728		
C1-2S (69) A	MOA10CLR026	1	1738		
C1-3S (70) A	MOA10CLR027	1	1755		
C1-4S (71) A	MOA10CLR028	1	1816		
C2-1S (72) A	MOA10CLR029	1	1850		
C2-2S(A) (73) A	MOA10CLR030	1	1900		
C2-2S(B) (74) A	MOA10CLR031	1	1900		
C2-2S(C) (75) A	MOA10CLR032	1	1900		
C2-3S (76) A	MOA10CLR033	1	1915		
C2-4S (77) A	MOA10CLR034	1	1928		
C3-1S(A) (78) A	MOA10CLR035	1	2034		RUN IN TRIPLICATE
C3-1S(B) (79) A	MOA10CLR036	1	2034		↓
C3-1S(C) (80) A	MOA10CLR037	1	2034		
C3-2S (81) A	MOA10CLR038	1	2048		
C3-3S (82) A	MOA10CLR039	1	2056		
C3-4S (83) A	MOA10CLR040	1	2110		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Maria Tu	7/16/10 0910	hand		
				7/16/10 0910

SAMPLED BY (NAME/SIGNATURE): _____

13.2.2 #204

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WA7 3

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	**Preservative:** NaOH, Effluent sample contains ascorbic acid, 6°C	**Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10TCN013 (88) A	Influent	1	~~7-16-10 10:55~~	1045	
✓ MOA10TCN014 (89) A	Effluent	1	~~7-16-10 [illegible]~~	1030	- use AA fill bottle for TCN - EFF
			See attached tags		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7-16-10 1100	hand	[signature]	7/16/10 1145
[signature]	7/16/10 1230	hand		
			[signature]	7/16/10 1230

SAMPLED BY (NAME/SIGNATURE): _____

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DRAFT

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.01

ANALYSIS TYPE: : (By EPA 200.8/245.1) Ag, As, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl, Zn, Hg

MATRIX: Water	**Preservative:** 6°C, Total metals w/ HNO3	**Type of Container:** 250ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10MET010 (88) B	Influent	1	see attached tags 7/16	1045	Analyze for total metals
✓ MOA10MET011 (90) A-B	Influent	1		1045	Analyze for dissolved metals
✓ MOA10MET012 (89) B	Effluent	1		1030	Analyze for total metals
✓ MOA10MET013 (91) A-B	Effluent	1		1030	Analyze for dissolved metals

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7-16-10 1100	hand	[illegible]	7/16/10 1145
[illegible]	7/16/10 1230	hand		
			[illegible]	7/16/10 1145

SAMPLED BY (NAME/SIGNATURE): _____

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TB: 21 #202

1103452

SGS

SAMPLE RECEIPT FORM

Review Criteria:	Condition:	Comments/Action Taken:
Were **custody seals** intact? Note # & location if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	
Temperature blank compliant (i.e., 0-6°C after correction factor)? Cooler ID: 1 @ 12.6 w/ Therm.ID: 202 Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ ***Note: If non-compliant, use form FS-0029 to document affected samples/analyses.*** If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled." If temperature(s) <0°C, were all containers ice free?	Yes (No) N/A Yes No (N/A)	Run as per client
Delivery method (specify all that apply): (Client) USPS Alert Courier Road Runner AK Air Lynden Carlile ERA FedEx UPS NAC PenAir Other:	Note airbill/tracking # See Attached or (N/A)	
* For samples received with payment, note amount ($) and cash / check / CC (circle one). * For samples received in FBKS, ANCH staff will verify all criteria are reviewed.	SRF Initiated by: (N/A)	
Do samples **match COC** (i.e., sample IDs, dates/times collected)? Are analyses requested unambiguous?	(Yes) No N/A (Yes) No N/A	
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble wrap) Separate plastic bags Vermiculite Other:	(Yes) No N/A	
Were all VOA vials **free of headspace** (i.e., bubbles ≤6 mm)? Were all soil VOAs **field extracted** with MeOH+BFB?	Yes No (N/A) Yes No (N/A)	
Were **proper containers** (type/mass/volume/preservative) used? Were the bottles provided by SGS? (Note apparent exceptions.) Were **Trip Blanks** (VOAs, LL-Hg) in cooler with samples?	(Yes) No N/A (Yes) No N/A Yes No (N/A)	
For preserved waters (other than VOA vials, LL-Mercury or microbiological analyses), was **pH verified and compliant**? If pH was adjusted, were bottles flagged (i.e., stickers)? ***Refer to attached bottle sheet (form F066) for documentation.***	Yes No (N/A) Yes No (N/A)	
For **RUSH** or **SHORT HOLD TIME** samples, were the COC & this SRF flagged, bottles flagged (e.g., stickers) and lab notified?	(Yes) No N/A	Samples past hold time upon reciept
For client requested, **site-specific QC** (e.g., MS/MSD/DUP), were bottles flagged (e.g., stickers) and numbered accordingly?	Yes No (N/A)	
For **special handling** (e.g., "MI" or foreign soils, lab filter, limited volume, Ref Lab), were bottles/paperwork flagged (e.g., sticker)?	Yes No (N/A)	
Was **PEER REVIEW** of sample numbering completed (i.e., compare WO# on containers to COC, container ID on containers to COC, each container had a unique container ID)? Was the WO# recorded in Front Counter/Sample Receiving log?	(Yes) No N/A (Yes) No N/A	SRF Completed by: KP Bottle Sheet by: FAT Peer Reviewed by: FAT
For any questions answered "NO," was the PM notified?	Yes No N/A	PM = Forest N/A

Additional notes (if applicable):
Rush Cooler past hold time per client. FAT 7/15/10

SGS

1103452

SAMPLE RECEIPT FORM

Review Criteria:	Condition:	Comments/Action Taken:
Were **custody seals** intact? Note # & location if applicable. COC accompanied samples?	Yes No (N/A) (Yes) No N/A	
Temperature blank compliant (i.e., 0-6°C after correction factor)? Cooler ID: 1 @ 4.1 w/ Therm.ID: 203 — COOLER TEMP Cooler ID: 2 @ 5.7 w/ Therm.ID: 110 — COOLER TEMP Cooler ID: 3 @ 5.2 w/ Therm.ID: 102 Cooler ID: 4 @ 0.4 w/ Therm.ID: 203 — COOLER TEMP Cooler ID: 5 @ 5.7 w/ Therm.ID: 203 ***Note: If non-compliant, use form FS-0029 to document affected samples/analyses.*** If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled." If temperature(s) <0°C, were all containers ice free?	(Yes) No N/A Yes No (N/A)	
Delivery method (specify all that apply): (Client) USPS Alert Courier Road Runner AK Air Lynden Carlile ERA FedEx UPS NAC PenAir Other:	Note airbill/tracking # See Attached (or N/A)	

* For samples received with payment, note amount ($) and cash / check / CC (circle one). N/A
* For samples received in FBKS, ANCH staff will verify all criteria are reviewed. SRF Initiated by: N/A

Do samples **match COC** (i.e., sample IDs, dates/times collected)? Are analyses requested unambiguous?	(Yes) No N/A (Yes) No N/A	
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): (Bubble wrap) Separate plastic bags Vermiculite Other:	(Yes) No N/A	
Were all VOA vials **free of headspace** (i.e., bubbles ≤6 mm)? Were all soil VOAs **field extracted** with MeOH+BFB?	Yes No N/A Yes (No) N/A	NO APPARENT MEOH. WILL CALL CLIENT.
Were **proper containers** (type/mass/volume/preservative) used? Were the bottles provided by SGS? (Note apparent exceptions.) Were **Trip Blanks** (VOAs, LL-Hg) in cooler with samples?	Yes (No) N/A Yes No N/A (Yes) No N/A	LIMITED VOLUME FOR MS/MSD FOR SVOCs.
For preserved waters (other than VOA vials, LL-Mercury or microbiological analyses), was **pH verified and compliant**? If pH was adjusted, were bottles flagged (i.e., stickers)? ***Refer to attached bottle sheet (form F066) for documentation.***	(Yes) No N/A Yes No (N/A)	
For **RUSH** or **SHORT HOLD TIME** samples, were the COC & this SRF flagged, bottles flagged (e.g., stickers) and lab notified?	Yes No (N/A)	
For client requested, **site-specific QC** (e.g., MS/MSD/DUP), were bottles flagged (e.g., stickers) and numbered accordingly?	(Yes) No N/A	
For **special handling** (e.g., "MI" or foreign soils, lab filter, limited volume, Ref Lab), were bottles/paperwork flagged (e.g., sticker)?	(Yes) No N/A	
Was **PEER REVIEW** of sample numbering completed (i.e., compare WO# on containers to COC, container ID on containers to COC, each container had a unique container ID)? Was the WO# recorded in Front Counter/Sample Receiving log?	Yes No N/A Yes No N/A	SRF Completed by: FBT Bottle Sheet by: FBT Peer Reviewed by: [illegible]
For any questions answered "NO," was the PM notified?	(Yes) No N/A	PM = FOREST N/A

Additional notes (if applicable):
ALL LS REF LAB EXCEPT CYANIDE, O&G, METALS, DISSOLVED METALS (WATERS) AND METALS, PCBs (SLUDGE). WATER VOC SAMPLES ON HOLD FOR FURTHER INSTRUCTIONS FROM CLIENT. #84-87A ARE DUP SAMPLES FOR CLOR.

PRINT LABELS

Notes:
ANOMALIES - *e.g., preservative added*
or SPECIAL HANDLING - *e.g., Multi-Incremental (MI), Field Filter (FF), Lab Filter (LF), use "same jar as" (SJA) for QC, 2xMeOH, bubbles, etc.*

WO# (7 digits)	Sample #	-	Sample #	Container ID	-	Container ID	Matrix	QC	Preservative (CHECKED)	TEST GROUP	
SAMPLE ID							TYPE		CONTAINERS	ANALYSIS	Type comments below:
1103452	001		002	A		A	1 Water		NaOH (pH >12)	W_Waters_Dept	
1103452	001		002	B		C	1 Water		N/A	W_REF_LAB	DIOXINS
1103452	001		002	D		E	1 Water		HCl (pH <2)	W_Oil&Grease/TPH1664	
1103452	001		002	F		G	1 Water		N/A	W_REF_LAB	PESTICIDES 614
1103452	001		002	H		I	1 Water		N/A	W_REF_LAB	PESTICIDES/PCB 608
1103452	001		002	J		J	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	
1103452	001		002	K		L	1 Water		N/A	W_REF_LAB	SVOC 625
1103452	001		002	M		O	1 Water		HCl * VOA or LL-Hg *	W_REF_LAB	624 COMPOSITE
1103452	003		003	A		A	1 Water	MS	N/A	W_REF_LAB	SVOC 625
1103452	004		004	A		A	1 Water	MSD	N/A	W_REF_LAB	SVCO 625
1103452	005		006	A		A	1 Water		N/A	W_Metals_Total/Diss.	FILTER JAR
1103452	005		006	B		B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	DISSOLVED METALS
1103452	007		007	A		A	2 Soil		N/A	S_REF_LAB	CYANIDE
1103452	007		007	B		B	2 Soil		N/A	S_REF_LAB	PESTICIDES 8081
1103452	007		007	C		C	2 Soil		N/A	S_REF_LAB	PESTICIDES 8141
1103452	007		007	D		D	2 Soil		N/A	S_REF_LAB	DIOXINS
1103452	007		007	E		E	2 Soil		N/A	S_REF_LAB	SVOC 625
1103452	007		007	F		F	2 Soil		N/A	S_Weigh_Out	METALS
1103452	007		007	G		G	2 Soil		MeOH+BFB *	S_REF_LAB	624
1103452	007		007	H		H	2 Soil		N/A	S_Weigh_Out	PCB
1103452	008		008	A		A	2 Soil	Trip Blank	MeOH+BFB *	S_REF_LAB	624
1103452	009		012	A		C	1 Water		HCl * VOA or LL-Hg *	W_GRO/VOA	
1103452	013		013	A		C	1 Water		HCl * VOA or LL-Hg *	W_REF_LAB	624

WO# (7 digits)	Sample #	-	Sample #	Container ID	-	Container ID	Matrix	QC	Preservative (CHECKED)	TEST GROUP	Notes: ANOMALIES - e.g., preservative added or SPECIAL HANDLING - e.g., Multi-Incremental (MI), Field Filter (FF), Lab Filter (LF), use "same jar as" (SJA) for QC, 2xMeOH, bubbles, etc.
SAMPLE ID							TYPE		CONTAINERS	ANALYSIS	Type comments below:
1103452	014		014	A		C	1 Water	Trip Blank	HCl * VOA or LL-Hg *	W_REF_LAB	624
1103452	015		030	A		C	1 Water		HCl * VOA or LL-Hg *	W_GRO/VOA	624 COMPOSITE VIALS
1103452	031		031	A		C	1 Water	MS	HCl * VOA or LL-Hg *	W_REF_LAB	624
1103452	032		032	A		C	1 Water	MSD	HCl * VOA or LL-Hg *	W_REF_LAB	624
1103452	033		056	A		A	1 Water		N/A	W_Waters_Dept	
1103452	057		057	A		C	1 Water		HCl * VOA or LL-Hg *	W_GRO/VOA	TAH
1103452	058		058	A		B	1 Water	MS	HCl * VOA or LL-Hg *	W_GRO/VOA	
1103452	059		059	A		A	1 Water	MSD	HCl * VOA or LL-Hg *	W_GRO/VOA	
1103452	060		062	A		C	1 Water		HCl * VOA or LL-Hg *	W_GRO/VOA	
1103452	063		063	A		C	1 Water	Trip Blank	HCl * VOA or LL-Hg *	W_GRO/VOA	
1103452	064		065	A		A	1 Water		NaOH (pH >12)	W_Waters_Dept	CYANIDE
1103452	064		065	B		B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	
1103452	066		067	A		A	1 Water		N/A	W_Metals_Total/Diss.	FILTER JAR
1103452	066		067	B		B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	DISSOLVED METALS
1103452	068		083	A		A	1 Water		N/A	W_Waters_Dept	COLOR
1103452	084		087	A		A	1 Water	Dup	N/A	W_Waters_Dept	COLOR
1103452	088		089	A		A	1 Water		NaOH (pH >12)	W_Waters_Dept	CYANIDE
1103452	088		089	B		B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	
1103452	090		091	A		A	1 Water		N/A	W_Metals_Total/Diss.	FILTER JAR
1103452	090		091	B		B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	DISSOLVED METALS

APPENDIX A

Toxic Pollutant and Pesticide Monitoring, July Sampling

A2 Asbestos

Solar Environmental Services, & International Asbestos Testing Labs

JULY SAMPLING, ASBESTOS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10ASB001	4037731	INFLUENT	ASBESTOS	SAMPLE
MOA10ASB002	4037732	EFFLUENT	ASBESTOS	SAMPLE
MOA10ASB003	4038674	SLUDGE	ASBESTOS	SAMPLE

IATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway Suite B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Solar Environmental Services
1131 76th Ave. Suite 102
Anchorage AK 99518

Report Date: 8/5/2010
Project: KLI Proj.$5~~0~~6.01
Project No.:

TEM WATER SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location	Total Asbestos Concentration	Asbestos Concentration Fibers > 10 Microns	Asbestos Types
4037731	MOAIOASB001	Sampled-7-14-10 6:00 Analyzed-8-3-10 Non-Potable	82.20 Million Fibers/Liter	<41.10 Million Fibers/Liter	Chrysotile
4037732	MOAIOASB002	Sampled-7-14-10 6:00 Analyzed-8-3-10 Non-Potable	14.80 Million Fibers/Liter	<4.93 Million Fibers/Liter	Chrysotile

NJ DEP 03863 **NVLAP Lab Code 101165-0** **NYS-DOH No. 11021**

Methodology: EPA Method For Determining Asbestos In Drinking Water (EPA 600/4-83-043) and EPA Method 100.1 and 100.2
NYSDOH Method For Waterborne Asbestos (ELAP 198.2)

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client. Samples are not blank corrected. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government

Minimum detection limit dependant upon turbidity of sample and volume filtered. National Primary Drinking Water Regulations under EPA's Safe Drinking Water Act dictates maximum contaminant levels for asbestos at 7.0 million fibers per liter. EPA and NYS-DOH regulations require segregation of overall fiber concentration, total asbestos concentration and asbestos concentration of fibers > 10 microns in length.

Analysis Performed By: C. Liska

Date: 8/3/2010

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

Solar Environmental Services, Inc.

7401 Meadow Street
Anchorage, AK 99507
Home Page: www.alaska.net/~sesenvir/

Phone: (907) 349-7705
Fax: (907) 349-7944
E-mail: sesenvir@alaska.net

CERTIFICATE OF ANALYSIS

CLIENT:	Kinnetic Laboratories, Inc.	**CLIENT ORDER #:**	194019
ATTN:	Gary Lawley	**PROJECT NAME:**	516.01
	1102 W. 7th Ave	**PROJECT #:**	516.01
	Anchorage, Alaska 99501	**REPORT #:**	2055PLM Amended
		REPORT DATE:	August 11, 2010
		COLLECTED BY:	Client
		DATE SAMPLED:	July 14, 2010
		DATE RECEIVED:	July 14, 2010
		DATE ANALYZED:	August 2, 2010
		ANALYZED BY:	R. Caran -IATL

PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT

POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB. #	CLIENT#	DESCRIPTION/ LOCATION/ COLOR	% ASBESTOS PRESENT	% OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
4038674	MOA10ASB003	Sludge (Grey)	None Detected	98% Cellulose	2%

Remarks: Amended Report; Analyst name was revised
End of Report

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY: Gracita O. Torrijos, Chemist – I.H.

Date: 08/17/10

FORM# SES 1008 REVISED 6/17/98

AIHA – AAR – PAT Certified

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
Solar Environmental Services 7401 Meadow Street Anchorage, AK 99507 Attn: Grace Torrijos (907) 349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days	P.O. #: AK10-1004	KLI Proj. #:506.01

ANALYSIS TYPE: ASBESTOS TEM. Method detection limit to be determined.

MATRIX: Water	**Preservative:** Chilled to 6°C	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10ASB001	Influent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MI / MN		
MOA10ASB002	Effluent	1			
			Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS 7/14/10 1310	—	hand	[illegible]	14 1310
[illegible]	7/15 1340	hand	[illegible]	7/15 1:40PM

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's dry\MOA10_dry_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Solar Environmental Services 7401 Meadow Street Anchorage, AK 99507 Attn: Grace Torrijos (907) 349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days	P.O. #: AK10-1004	KLI Proj. #:506.01

ANALYSIS TYPE: ASBESTOS PLM. Method detection limit to be determined.

MATRIX: Sludge	**Preservative:** Chilled to 6°C	**Type of Container:** : 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10ASB003	Sludge	1	7/14/10 0550		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/14/10	1310	—	[illegible]	14 1318
[illegible]	7/15 1340	[illegible]	[illegible]	7/15 1:40PM

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's dry\MOA10_dry_COC.doc

APPENDIX A

Toxic Pollutant and Pesticide Monitoring, July Sampling

A3 Enterococci

Anchorage Water & Wastewater Utility

JULY SAMPLING, ENTEROCOCCI

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10ENT001	AA80140	EFFLUENT REP-1	ENTEROCOCCI	SAMPLE
MOA10ENT002	AA80141	EFFLUENT REP-2	ENTEROCOCCI	SAMPLE

MOA10ENT001
effluent Rep 1

Anchorage Water and Wastewater Utility
Water Quality Section
AK 00017

Method: Standard Methods 20th ed. 9223B Enzyme Substrate
(Idexx Colilert Quanti-tray)

Enterococci

Sample Location: EFFLUENT
Sample Type: GRAB
Thiosulfate Added: Yes ____ No ____
EDTA Added: Yes ____ No ____
Chlorine Residual, mg/L: ____
Collected By: SMS

Date & Time Collected: 7-13-10 / 1455
Date & Time set: 7-13-10 / 1530
Analyst: SMS

Date & Time read (24 hours): 7-14-10 / 1530
Analyst: SMS

Sample I.D. AA 80140

Enterococci (Blue Fluorescence)

Replicate	Dilution (mls. of sample)	Positive Small Wells	Positive Large Wells	MPN Table	Result (MPN Table x Dilution factor) Cfu / 100 ml.
1.	100	48	48	1011.2	1011.2
2.					
3.					
4.					

RESULT: 1011.2 **Enterococci cfu / 100 ml.**

Comments: Re run at 1ml / 10ml / 20ml

Analyst's Review: SMS

Supervisor's Review: ____

MOA 10ENTOUT
Effluent Rep 1

Anchorage Water and Wastewater Utility
Water Quality Section
AK 00017

Method: Standard Methods 20th ed. 9223B Enzyme Substrate
(Idexx Colilert Quanti-tray)

Enterococci

Sample Location: EFFLUENT
Sample Type: GRAB
Thiosulfate Added: Yes ____ No ____
EDTA Added: Yes ____ No ____
Chlorine Residual, mg/L: ____
Collected By: SMS

Date & Time Collected: 7-13-10 1455
Date & Time set: 7-13-10 1530
Analyst: ~~7-14-10~~ SMS 1530
Date & Time read (24 hours): 7-14-10 / 1530
Analyst: SMS

Sample I.D. AA80141

Enterococci (Blue Fluorescence)

Replicate	Dilution (mls. of sample)	Positive Small Wells	Positive Large Wells	MPN Table	Result (MPN Table x Dilution factor) Cfu / 100 ml.
1.	100	48	48	1011.2	1011.2
2.					
3.					
4.					

RESULT: 1011.2 **Enterococci cfu / 100 ml.**

Comments:

Analyst's Review: [signature] Supervisor's Review: ____

Anchorage Water and Wastewater Utility
Water Quality Section
AK 00017

Method: Standard Methods 20th ed. 9223B Enzyme Substrate
(Idexx Colilert Quanti-tray)

Enterococci

Sample Location: EFFLUENT
Sample Type: Grab
Thiosulfate Added: Yes ____ No ____
EDTA Added: Yes ____ No ____
Chlorine Residual, mg/L: ____
Collected By: SWG

Date & Time Collected: 7-14-10 / 1600
Date & Time set: 7-14-10 / 1610
Analyst: SWG

Date & Time read (24 hours): 7-15-10 / 1610
Analyst: SWG

Sample I.D. AA 80142

Enterococci (Blue Fluorescence)

Replicate	Dilution (mls. of sample)	Positive Small Wells	Positive Large Wells	MPN Table	Result (MPN Table x Dilution factor) Cfu / 100 ml.
1. Blank	100ml	Ø	Ø		
2.	1ml	Ø	1		
3. 10X	10ml	22	28	75.5 ✓	755 ✓
4. 5X	20ml	45	48	870.4 ✓	4352 ✓

RESULT: 4352 **Enterococci cfu / 100 ml.**

Comments:

Analyst's Review: [signature]

Supervisor's Review: ____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
AWWU to perform in house.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date:	P.O. #: AK10-NA	KLI Proj. #:506.01

ANALYSIS TYPE: Enterococci by MPN (SM 9230B) preferred or e.

MATRIX: Water	**Preservative:** 6°C Effluent samples contain $Na_2S_2O_3$	**Type of Container:** 125-mL Bac-T bottles

SAMPLE IDENTIFICATION	SAMPLE NUMBER	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10ENT001	Effluent-1	1	7-13-10 1455		AA80140
✓ MOA10ENT002	Effluent-2	1	7-13-10 1455		AA80141
"	"	1	7-14-10 1600		AA80142

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
SWG	7-13-10 1455	SWG	SWG	7-13-10 1500

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B1 Oil & Grease, Cyanide, Metals, Priority Pollutants, Dioxin, Pesticides, and Hydrocarbons

SGS North America, Inc. Test America & Columbia Analytical Services

AUGUST SAMPLING, OIL&GREASE, CYANIDE AND METALS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10O&G003	1104213001	INFLUENT	OIL & GREASE	SAMPLE
MOA10O&G004	1104213002	EFFLUENT	OIL & GREASE	SAMPLE
MOA10TCN015	1104213001	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN016	1104213002	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN017	1104213028	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN018	1104213029	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN019	1104213032	INFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN020	1104213033	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TCN022	K1008971-003	SLUDGE	TOTAL CYANIDE	SAMPLE
MOA10MET014	1104213001	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET015	1104213024	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET016	1104213002	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET017	1104213025	EFFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET018	1104213005	SLUDGE	TOTAL METALS	SAMPLE
MOA10MET019	1104213028	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET020	1104213030	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET021	1104213029	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET022	1104213031	EFFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET023	1104213032	INFLUENT	TOTAL METALS	SAMPLE
MOA10MET024	1104213034	INFLUENT	DISSOLVED METALS	SAMPLE
MOA10MET025	1104213033	EFFLUENT	TOTAL METALS	SAMPLE
MOA10MET026	1104213035	EFFLUENT	DISSOLVED METALS	SAMPLE

AUGUST SAMPLING, PRIORITY POLLUTANTS, DIOXIN, PESTICIDES, AND HYDROCARBONS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10VOP020 - 027	280-6575-3	INFLUENT	VOLATILE ORGANICS	SAMPLE (COMPOSITE)
MOA10VOP028 - 035	280-6575-4	EFFLUENT	VOLATILE ORGANICS	SAMPLE (COMPOSITE)
* MOA10VOP036	280-6575-1	C-STATION	VOLATILE ORGANICS	FIELD BLANK
MOA10VOP037	280-6575-2	TRIP BLANK	VOLATILE ORGANICS	TRIP BLANK
MOA10VOP038	280-6830-1	SLUDGE	VOLATILE ORGANICS	SAMPLE
MOA10DXN004	G552-684-1C	INFLUENT	DIOXIN	SAMPLE
MOA10DXN005	G552-684-2C	EFFLUENT	DIOXIN	SAMPLE
MOA10DXN006	G552-684-3C	SLUDGE	DIOXIN	SAMPLE
MOA10SVL004	PTH0652-01	INFLUENT	SEMI-VOLATILES	SAMPLE
MOA10SVL005	PTH0652-02	EFFLUENT	SEMI-VOLATILES	SAMPLE
MOA10SVL006	PTH0652-03	SLUDGE	SEMI-VOLATILES	SAMPLE
MOA10PCB002	K1008971-003	SLUDGE	PCB'S	SAMPLE
MOA10PES004	K1008971-001	INFLUENT	PESTICIDES	SAMPLE
MOA10PES005	K1008971-002	EFFLUENT	PESTICIDES	SAMPLE
MOA10PES006	K1008971-003	SLUDGE	PESTICIDES	SAMPLE
MOA10PST004	K1008971-001	INFLUENT	PESTICIDES	SAMPLE
MOA10PST005	K1008971-002	EFFLUENT	PESTICIDES	SAMPLE
MOA10PST006	K1008971-003	SLUDGE	PESTICIDES	SAMPLE

SGS North America Inc.
Alaska Division
Level II Laboratory Data Report

Project:	506.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1104213

Released by:

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

Note:
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

CASE NARRATIVE

Print Date: 12/29/2010

Client Name: Kinnetic Laboratories, Inc.
Project Name: 506.01
Workorder No.: 1104213

Sample Comments

Refer to the sample receipt form for information on sample condition.

Lab Sample ID	Sample Type	Client Sample ID
1104213001	PS	Influent
	EPA 608 and EPA 614 - were analyzed at Columbia Analytical Services in Kelso, WA. 8280 - 2,3,7,8-TCDD was analyzed at SGS in Wilmington, NC. 625 - SVOC was analyzed by Test America in Beaverton, OR.	
1104213002	PS	Effluent
	EPA 608 and EPA 614 - were analyzed at Columbia Analytical Services in Kelso, WA. 8280 - 2,3,7,8-TCDD was analyzed at SGS in Wilmington, NC. 625 - SVOC was analyzed by Test America in Beaverton, OR.	
1104213003	* BMS	Effluent MS
	EPA 608 and EPA 614 - were analyzed at Columbia Analytical Services in Kelso, WA.	
1104213004	* BMSD	Effluent MSD
	EPA 608 and EPA 614 - were analyzed at Columbia Analytical Services in Kelso, WA.	
1104213005	PS	Sludge
	EPA 8081, EPA 8141 and 9012A - were analyzed at Columbia Analytical services in Kelso, WA. 8280 - 2,3,7,8-TCDD was analyzed at SGS in Wilmington, NC. 8270 - SVOC was analyzed by Test America in Beaverton, OR.	
1104213006	PS	C-Station
	EPA 624 - Was analyzed at Test America in Arvada, CO.	
1104213007	* TB	TRIP BLANK
	EPA 624 - Was analyzed at Test America in Arvada, CO.	
1104213026	PS	INF
	EPA 624 - Was analyzed at Test America in Arvada, CO.	
1104213027	PS	EFF
	EPA 624 - Was analyzed at Test America in Arvada, CO.	
982963	* DUP	ARD-1_20100817(1104262001DUF
	4500-CN- Total cyanide - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.	
982981	* DUP	P10-034-01(1104201001DUP)
	4500-CN- Total cyanide - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.	
982982	* MS	P10-034-01(1104201001MS)
	4500-CN- Total cyanide - MS recovery is outside of QC criteria. Refer to LCS for accuracy requirements.	
984546	* MS	081110EX2010M...(1103835020MS
	7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was unsuccessful. Sample result was determined by MSA.	

984547 * BND 081110EX2010...(1103835020BND

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was unsuccessful. Sample result was determined by MSA.

984550 * MS 10NSS001SW01ARC(1104326006I

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was unsuccessful. Sample result was determined by MSA.

984551 * MSD 10NSS001SW01ARC(1104326006I

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was unsuccessful. Sample result was determined by MSA.

984552 * BND 10NSS001SW01ARC(1104326006I

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was unsuccessful. Sample result was determined by MSA.

984598 * MS Influent(1104213024MS)

200.8 - Metals - MS recoveries for selenium and silver are outside of acceptance criteria. Post-digestion spike was successful.

985034 * BND Influent(1104213032BND)

245.1 - Mercury- MS recovery for mercury was outside of acceptance criteria (biased low). Post digestion spike was successful.

985040 * MS 10FWA-UIC-GW01(1105938001MS

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was successful.

985041 * MSD 10FWA-UIC-GW01(1105938001MS

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was successful.

985045 * MS 10FWA-UIC-GW01(1105938009MS

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was successful.

985046 * MSD 10FWA-UIC-GW01(1105938009MS

7470A - Mercury- MS/MSD recoveries for mercury were outside of acceptance criteria (biased low). Post digestion spike was successful.

985104 * MS 10NSS001TP05ARA(1104390013M

6020 - Metals - MS/MSD recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.

985105 * MSD 10NSS001TP05ARA(1104390013M

6020 - Metals - MS/MSD recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Report of Manual Integrations

Print Date: 12/29/2010 3:19 pm

Laboratory ID	Client Sample ID	Analytical Batch	Method	Analyte	Reason
985582	CCV for HBN 762880 (XGC/7159)	XGC7159	SW8082A	Aroclor-1016	SP
985584	CCV for HBN 762880 (XGC/7159)	XGC7159	SW8082A	Aroclor-1016	SP
985585	CCV for HBN 762880 (XGC/7159)	XGC7159	SW8082A	Aroclor-1016	SP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

Laboratory Analytical Report

Client: **Kinnetic Laboratories, Inc.**
1102 West 7th Avenue
Anchorage, AK 99501

Attn: **Gary Lawley**
T: (907)276-6178 F:(907)278-6881
glawley@kinneticlabs.com

Project: **506.01**

Workorder No.: **1104213**

Certification:

This data package is in compliance with the terms and conditions of the contract, both technically and for completeness, unless otherwise noted on the sample data sheet(s) and/or case narrative. This certification applies only to the tested parameters and the specific sample(s) received at the laboratory. If you have any questions regarding this report, or if we can be of further assistance, please contact your SGS Project Manager.

Forest Taylor

Forest.Taylor@sgs.com
Project Manager

Contents (Bookmarked in PDF):

Cover Page
Glossary
Sample Summary Forms
Case Narrative
Sample Results Forms
Batch Summary Forms (by method)
Quality Control Summary Forms (by method)
Chain of Custody/Sample Receipt Forms
Attachments (if applicable)

Print Date: 12/29/2010

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions (<http://www.sgs.com/terms_and_conditions.htm>), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6010B, 6020, 7470A, 7471B, 8021B, 8081B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, the National Environmental Laboratory Accreditation Program and other regulatory authorities. The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV	Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 2xDL)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RL	Reporting Limit
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

SAMPLE SUMMARY

Print Date: 12/29/2010 3:19 pm

Client Name: Kinnetic Laboratories, Inc.
Project Name: 506.01
Workorder No.: 1104213

Analytical Methods

Method Description	Analytical Method
Mercury 7471	SW7471B
Mercury EPA 245.1 DISSOLVED	EP245.1
Mercury EPA 245.1 for non drinking water	EP245.1
Metals by ICP-MS (S)	SW6020
Metals in Drinking Water by ICP-MS DISSO	EP200.8
Metals in Water by 200.8 ICP-MS	EP200.8
Oil & Grease HEM by EPA 1664	EPA 1664A
Percent Solids SM2540G	SM20 2540G
SW8082 PCB's	SW8082A
Total Cyanide SM4500 (W) Kone Lab	SM20 4500-CN C,E

Sample ID Cross Reference

Lab Sample ID	Client Sample ID
1104213001	Influent
1104213002	Effluent
1104213003	Effluent MS
1104213004	Effluent MSD
1104213005	Sludge
1104213006	C-Station
1104213007	TRIP BLANK
1104213008	INF CMP #1
1104213009	INF CMP #2
1104213010	INF CMP #3
1104213011	INF CMP #4
1104213012	INF CMP #5
1104213013	INF CMP #6
1104213014	INF CMP #7
1104213015	INF CMP #8
1104213016	EFF CMP #1
1104213017	EFF CMP #2
1104213018	EFF CMP #3
1104213019	EFF CMP #4
1104213020	EFF CMP #5
1104213021	EFF CMP #6
1104213022	EFF CMP #7
1104213023	EFF CMP #8
1104213024	Influent
1104213025	Effluent
1104213026	INF
1104213027	EFF
1104213028	Influent
1104213029	Effluent
1104213030	Influent
1104213031	Effluent
1104213032	Influent
1104213033	Effluent
1104213034	Influent
1104213035	Effluent

Detectable Results Summary

Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213001

Parameter	Result	Units
Metals by ICP/MS		
Chromium	4.16	ug/L
Copper	67.7	ug/L
Lead	3.19	ug/L
Nickel	5.95	ug/L
Silver	1.20	ug/L
Zinc	178	ug/L
Waters Department		
Oil & Grease HEM	98.1	mg/L

Client Sample ID: **Effluent**
SGS Ref. #: 1104213002

Parameter	Result	Units
Metals by ICP/MS		
Copper	41.9	ug/L
Lead	1.81	ug/L
Nickel	3.96	ug/L
Zinc	94.9	ug/L
Waters Department		
Cyanide	0.0050	mg/L
Oil & Grease HEM	49.1	mg/L

Client Sample ID: **Sludge**
SGS Ref. #: 1104213005

Parameter	Result	Units
Metals Department		
Mercury	833	ug/Kg
Metals by ICP/MS		
Antimony	1.54	mg/Kg
Arsenic	4.73	mg/Kg
Cadmium	1.72	mg/Kg
Chromium	15.1	mg/Kg
Copper	273	mg/Kg
Lead	18.6	mg/Kg
Molybdenum	5.27	mg/Kg
Nickel	14.5	mg/Kg
Silver	4.02	mg/Kg
Zinc	653	mg/Kg

Detectable Results Summary

Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213024

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.315	ug/L
Nickel	3.78	ug/L
Zinc	22.9	ug/L
Copper	10.3	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1104213025

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.356	ug/L
Nickel	3.85	ug/L
Zinc	28.0	ug/L
Copper	13.3	ug/L

Client Sample ID: **Influent**
SGS Ref. #: 1104213028

Metals by ICP/MS

Parameter	Result	Units
Cadmium	0.836	ug/L
Chromium	3.79	ug/L
Copper	83.6	ug/L
Lead	5.04	ug/L
Nickel	6.37	ug/L
Silver	1.55	ug/L
Zinc	220	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1104213029

Metals by ICP/MS

Parameter	Result	Units
Copper	48.4	ug/L
Lead	2.02	ug/L
Nickel	4.22	ug/L
Zinc	106	ug/L

Waters Department

Cyanide	0.0068	mg/L

Detectable Results Summary

Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213030

Dissolved Metals by ICP/MS

Parameter	Result	Units
Nickel	4.15	ug/L
Zinc	16.6	ug/L
Copper	4.68	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1104213031

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.280	ug/L
Nickel	3.82	ug/L
Zinc	33.4	ug/L
Copper	12.7	ug/L

Client Sample ID: **Influent**
SGS Ref. #: 1104213032

Metals by ICP/MS

Parameter	Result	Units
Cadmium	0.931	ug/L
Chromium	4.74	ug/L
Copper	64.7	ug/L
Lead	4.00	ug/L
Nickel	6.10	ug/L
Silver	1.37	ug/L
Zinc	1520	ug/L

Client Sample ID: **Effluent**
SGS Ref. #: 1104213033

Metals by ICP/MS

Parameter	Result	Units
Copper	45.0	ug/L
Lead	1.89	ug/L
Nickel	4.40	ug/L
Zinc	103	ug/L

Waters Department

Cyanide	0.0077	mg/L

Detectable Results Summary

Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**

SGS Ref. #: 1104213034

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.291	ug/L
Nickel	3.65	ug/L
Zinc	14.1	ug/L
Copper	10.5	ug/L

Client Sample ID: **Effluent**

SGS Ref. #: 1104213035

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.225	ug/L
Nickel	4.23	ug/L
Zinc	99.3	ug/L
Copper	12.2	ug/L

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213001
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4622	MXX23436	

Batch Information

Analytical Batch: MCV4622
Analytical Method: EP245.1
Analysis Date/Time: 08/26/10 11:13
Dilution Factor: 1

Prep Batch: MXX23436
Prep Method: METHOD
Prep Date/Time: 08/25/10 17:15

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213001-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213001
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.500 U	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	4.16	2.00	ug/L	5	MMS6631	MXX23417	
Copper	67.7	1.00	ug/L	5	MMS6631	MXX23417	
Lead	3.19	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	5.95	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.20	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	178	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:07
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213001-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213001
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0050 U	0.0050	mg/L	1	WDA1998	WXX8008	
Oil & Grease HEM	98.1	4.26	mg/L	1	POG2515	POGX2335	

Batch Information

Analytical Batch: POG2515
Analytical Method: EPA 1664A
Analysis Date/Time: 08/26/10 11:15
Dilution Factor: 1

Prep Batch: POGX2335
Prep Method: EXT_1664OG
Prep Date/Time: 08/26/10 11:15

Initial Prep Wt./Vol.: 940 mL
Prep Extract Vol.: 50 mL
Container ID:1104213001-L
Analyst: RTS

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 17:25
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213001-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213002
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4622	MXX23436	

Batch Information

Analytical Batch: MCV4622
Analytical Method: EP245.1
Analysis Date/Time: 08/26/10 11:15
Dilution Factor: 1

Prep Batch: MXX23436
Prep Method: METHOD
Prep Date/Time: 08/25/10 17:15

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213002-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213002
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.500 U	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	2.00 U	2.00	ug/L	5	MMS6631	MXX23417	
Copper	41.9	1.00	ug/L	5	MMS6631	MXX23417	
Lead	1.81	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	3.96	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	94.9	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:09
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213002-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213002
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0050	0.0050	mg/L	1	WDA1998	WXX8008	
Oil & Grease HEM	49.1	4.30	mg/L	1	POG2515	POGX2335	

Batch Information

Analytical Batch: POG2515
Analytical Method: EPA 1664A
Analysis Date/Time: 08/26/10 11:15
Dilution Factor: 1

Prep Batch: POGX2335
Prep Method: EXT_1664OG
Prep Date/Time: 08/26/10 11:15

Initial Prep Wt./Vol.: 930 mL
Prep Extract Vol.: 50 mL
Container ID:1104213002-K
Analyst: RTS

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 17:26
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213002-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Sludge**
SGS Ref. #: 1104213005
Project ID: 506.01
Matrix: Soil/Solid (dry weight)
Percent Solids: 29.5

Collection Date/Time: 08/17/10 09:55
Receipt Date/Time: 08/17/10 11:51

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	833	130	ug/Kg	1	MCV4629	MXX23462	

Batch Information

Analytical Batch: MCV4629
Analytical Method: SW7471B
Analysis Date/Time: 08/30/10 14:05
Dilution Factor: 1

Prep Batch: MXX23462
Prep Method: METHOD
Prep Date/Time: 08/30/10 11:30

Initial Prep Wt./Vol.: 0.623 g
Prep Extract Vol.: 50 mL
Container ID:1104213005-H
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Sludge**
SGS Ref. #: 1104213005
Project ID: 506.01
Matrix: Soil/Solid (dry weight)
Percent Solids: 29.5

Collection Date/Time: 08/17/10 09:55
Receipt Date/Time: 08/17/10 11:51

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.54	0.329	mg/Kg	10	MMS6653	MXX23454	
Arsenic	4.73	3.29	mg/Kg	10	MMS6653	MXX23454	
Beryllium	0.329 U	0.329	mg/Kg	10	MMS6653	MXX23454	
Cadmium	1.72	0.657	mg/Kg	10	MMS6653	MXX23454	
Chromium	15.1	1.31	mg/Kg	10	MMS6653	MXX23454	
Copper	273	1.97	mg/Kg	10	MMS6653	MXX23454	
Lead	18.6	0.657	mg/Kg	10	MMS6653	MXX23454	
Molybdenum	5.27	3.29	mg/Kg	10	MMS6653	MXX23454	
Nickel	14.5	0.657	mg/Kg	10	MMS6653	MXX23454	
Selenium	1.64 U	1.64	mg/Kg	10	MMS6653	MXX23454	
Silver	4.02	0.329	mg/Kg	10	MMS6653	MXX23454	
Thallium	0.0657 U	0.0657	mg/Kg	10	MMS6653	MXX23454	
Zinc	653	3.29	mg/Kg	10	MMS6653	MXX23454	

Batch Information

Analytical Batch: MMS6653
Analytical Method: SW6020
Analysis Date/Time: 08/30/10 17:05
Dilution Factor: 10

Prep Batch: MXX23454
Prep Method: SW3050B
Prep Date/Time: 08/27/10 14:45

Initial Prep Wt./Vol.: 1.03 g
Prep Extract Vol.: 50 mL
Container ID:1104213005-H
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Sludge**
SGS Ref. #: 1104213005
Project ID: 506.01
Matrix: Soil/Solid (dry weight)
Percent Solids: 29.5

Collection Date/Time: 08/17/10 09:55
Receipt Date/Time: 08/17/10 11:51

Polychlorinated Biphenyls

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Aroclor-1016	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1221	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1232	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1242	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1248	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1254	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Aroclor-1260	169 U	169	ug/Kg	1	XGC7159	XXX23477	
Decachlorobiphenyl <surr>	89	60-125	%	1	XGC7159	XXX23477	

Batch Information

Analytical Batch: XGC7159
Analytical Method: SW8082A
Analysis Date/Time: 08/30/10 16:51
Dilution Factor: 1

Prep Batch: XXX23477
Prep Method: SW3550C
Prep Date/Time: 08/26/10 16:00

Initial Prep Wt./Vol.: 22.592 g
Prep Extract Vol.: 5 mL
Container ID:1104213005-F
Analyst: RTS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Sludge**
SGS Ref. #: 1104213005
Project ID: 506.01
Matrix: Soil/Solid (dry weight)
Percent Solids: 29.5

Collection Date/Time: 08/17/10 09:55
Receipt Date/Time: 08/17/10 11:51

Solids

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Total Solids	29.5		%	1	SPT8223		

Batch Information

Analytical Batch: SPT8223
Analytical Method: SM20 2540G
Analysis Date/Time: 08/27/10 20:00
Dilution Factor: 1

Initial Prep Wt./Vol.: 1 mL
Container ID:1104213005-H
Analyst: AHJ

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213024
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:24
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213024-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213024
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	10.3	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.315	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	3.78	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	22.9	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:00
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213024-B
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213025
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:38
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213025-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213025
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/17/10 08:00
Receipt Date/Time: 08/17/10 11:51

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	13.3	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.356	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	3.85	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	28.0	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:03
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213025-B
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213028
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:05
Receipt Date/Time: 08/18/10 09:55

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:41
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213028-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213028
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:05
Receipt Date/Time: 08/18/10 09:55

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.836	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	3.79	2.00	ug/L	5	MMS6631	MXX23417	
Copper	83.6	1.00	ug/L	5	MMS6631	MXX23417	
Lead	5.04	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	6.37	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.55	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	220	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:11
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213028-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213028
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:05
Receipt Date/Time: 08/18/10 09:55

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0050 U	0.0050	mg/L	1	WDA1998	WXX8008	

Batch Information

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 17:00
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213028-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213029
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:12
Receipt Date/Time: 08/18/10 09:55

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:44
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213029-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213029
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:12
Receipt Date/Time: 08/18/10 09:55

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.500 U	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	2.00 U	2.00	ug/L	5	MMS6631	MXX23417	
Copper	48.4	1.00	ug/L	5	MMS6631	MXX23417	
Lead	2.02	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	4.22	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	106	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:13
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213029-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213029
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:12
Receipt Date/Time: 08/18/10 09:55

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0068	0.0050	mg/L	1	WDA1998	WXX8008	

Batch Information

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 18:47
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213029-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213030
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:05
Receipt Date/Time: 08/18/10 09:55

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:47
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213030-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213030
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:05
Receipt Date/Time: 08/18/10 09:55

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	4.68	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.200 U	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	4.15	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	16.6	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:05
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213030-B
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213031
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:12
Receipt Date/Time: 08/18/10 09:55

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:50
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213031-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213031
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/18/10 08:12
Receipt Date/Time: 08/18/10 09:55

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	12.7	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.280	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	3.82	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	33.4	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:07
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213031-B
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213032
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:19
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213032-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213032
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.931	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	4.74	2.00	ug/L	5	MMS6631	MXX23417	
Copper	64.7	1.00	ug/L	5	MMS6631	MXX23417	
Lead	4.00	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	6.10	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.37	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	1520	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:14
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213032-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213032
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0050 U	0.0050	mg/L	1	WDA1998	WXX8008	

Batch Information

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 17:07
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213032-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213033
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Metals Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:53
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213033-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213033
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Arsenic	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Beryllium	0.400 U	0.400	ug/L	5	MMS6631	MXX23417	
Cadmium	0.500 U	0.500	ug/L	5	MMS6631	MXX23417	
Chromium	2.00 U	2.00	ug/L	5	MMS6631	MXX23417	
Copper	45.0	1.00	ug/L	5	MMS6631	MXX23417	
Lead	1.89	0.200	ug/L	5	MMS6631	MXX23417	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6631	MXX23417	
Nickel	4.40	2.00	ug/L	5	MMS6631	MXX23417	
Selenium	5.00 U	5.00	ug/L	5	MMS6631	MXX23417	
Silver	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Thallium	1.00 U	1.00	ug/L	5	MMS6631	MXX23417	
Zinc	103	5.00	ug/L	5	MMS6631	MXX23417	

Batch Information

Analytical Batch: MMS6631
Analytical Method: EP200.8
Analysis Date/Time: 08/24/10 13:16
Dilution Factor: 5

Prep Batch: MXX23417
Prep Method: E200.2
Prep Date/Time: 08/23/10 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213033-A
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213033
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Cyanide	0.0077	0.0050	mg/L	1	WDA1998	WXX8008	

Batch Information

Analytical Batch: WDA1998
Analytical Method: SM20 4500-CN C,E
Analysis Date/Time: 08/20/10 18:47
Dilution Factor: 1

Prep Batch: WXX8008
Prep Method: EXT/CN4500
Prep Date/Time: 08/20/10 09:45

Initial Prep Wt./Vol.: 6 mL
Prep Extract Vol.: 6 mL
Container ID:1104213033-B
Analyst: ACF

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213034
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:55
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213034-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Influent**
SGS Ref. #: 1104213034
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	10.5	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.291	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	3.65	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	14.1	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:09
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213034-B
Analyst: NRB

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213035
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Dissolved Metals

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Mercury	0.200 U	0.200	ug/L	1	MCV4627	MXX23453	

Batch Information

Analytical Batch: MCV4627
Analytical Method: EP245.1
Analysis Date/Time: 08/27/10 09:58
Dilution Factor: 1

Prep Batch: MXX23453
Prep Method: METHOD
Prep Date/Time: 08/26/10 18:00

Initial Prep Wt./Vol.: 25 mL
Prep Extract Vol.: 50 mL
Container ID:1104213035-A
Analyst: KAR

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:19 pm

Client Sample ID: **Effluent**
SGS Ref. #: 1104213035
Project ID: 506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 08/19/10 08:00
Receipt Date/Time: 08/19/10 10:45

Dissolved Metals by ICP/MS

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Antimony	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Arsenic	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Beryllium	0.400 U	0.400	ug/L	5	MMS6640	MXX23438	
Cadmium	0.500 U	0.500	ug/L	5	MMS6640	MXX23438	
Chromium	2.00 U	2.00	ug/L	5	MMS6640	MXX23438	
Copper	12.2	1.00	ug/L	5	MMS6640	MXX23438	
Lead	0.225	0.200	ug/L	5	MMS6640	MXX23438	
Molybdenum	10.0 U	10.0	ug/L	5	MMS6640	MXX23438	
Nickel	4.23	2.00	ug/L	5	MMS6640	MXX23438	
Selenium	5.00 U	5.00	ug/L	5	MMS6640	MXX23438	
Silver	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Thallium	1.00 U	1.00	ug/L	5	MMS6640	MXX23438	
Zinc	99.3	5.00	ug/L	5	MMS6640	MXX23438	

Batch Information

Analytical Batch: MMS6640
Analytical Method: EP200.8
Analysis Date/Time: 08/27/10 13:11
Dilution Factor: 5

Prep Batch: MXX23438
Prep Method: E200.2
Prep Date/Time: 08/25/10 23:50

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 25 mL
Container ID:1104213035-B
Analyst: NRB

SGS Ref.#	982960	Method Blank	**Printed Date/Time**	12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	WXX8008
Project Name/#	506.01		**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)		**Date**	08/20/2010

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Cyanide	0.00300 U	0.0050	0.0015	mg/L	08/20/10
Batch	WDA1998				
Method	SM20 4500-CN C,E				
Instrument	Konelab				

SGS Ref.#	983502 Method Blank	**Printed Date/Time**	12/29/2010 15:19	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23417
Project Name/#	506.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	08/23/2010

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.620 U	1.00	0.310	ug/L	08/24/10
Arsenic	5.00 U	5.00	2.50	ug/L	08/24/10
Beryllium	0.260 U	0.400	0.130	ug/L	08/24/10
Cadmium	0.300 U	0.500	0.150	ug/L	08/24/10
Chromium	1.24 U	2.00	0.620	ug/L	08/24/10
Copper	0.620 U	1.00	0.310	ug/L	08/24/10
Lead	0.124 U	0.200	0.0620	ug/L	08/24/10
Molybdenum	6.20 U	10.0	3.10	ug/L	08/24/10
Nickel	1.24 U	2.00	0.620	ug/L	08/24/10
Selenium	3.00 U	5.00	1.50	ug/L	08/24/10
Silver	0.620 U	1.00	0.310	ug/L	08/24/10
Thallium	0.620 U	1.00	0.310	ug/L	08/24/10
Zinc	5.00 U	5.00	2.50	ug/L	08/24/10

Batch	MMS6631
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984542	Method Blank	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23436
Project Name/#	506.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	08/25/2010

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	0.124 U	0.200	0.0620	ug/L	08/26/10
Batch	MCV4622				
Method	EP245.1				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	984596 Method Blank	**Printed Date/Time**	12/29/2010 15:19	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX23438
Project Name/#	506.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	08/25/2010

QC results affect the following production samples:

1104213024, 1104213025, 1104213030, 1104213031, 1104213034, 1104213035

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.620 U	1.00	0.310	ug/L	08/27/10
Arsenic	5.00 U	5.00	2.50	ug/L	08/27/10
Beryllium	0.260 U	0.400	0.130	ug/L	08/27/10
Cadmium	0.300 U	0.500	0.150	ug/L	08/27/10
Chromium	1.24 U	2.00	0.620	ug/L	08/27/10
Copper	0.620 U	1.00	0.310	ug/L	08/27/10
Lead	0.124 U	0.200	0.0620	ug/L	08/27/10
Molybdenum	6.20 U	10.0	3.10	ug/L	08/27/10
Nickel	1.24 U	2.00	0.620	ug/L	08/27/10
Selenium	3.00 U	5.00	1.50	ug/L	08/27/10
Silver	0.620 U	1.00	0.310	ug/L	08/27/10
Thallium	0.620 U	1.00	0.310	ug/L	08/27/10
Zinc	5.00 U	5.00	2.50	ug/L	08/27/10

Batch	MMS6640
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984729	Method Blank	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX23477
Project Name/#	506.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	08/26/2010

QC results affect the following production samples:

1104213005

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Polychlorinated Biphenyls					
Aroclor-1016	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1221	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1232	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1242	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1248	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1254	30.0 U	50.0	15.0	ug/Kg	08/30/10
Aroclor-1260	30.0 U	50.0	15.0	ug/Kg	08/30/10
Surrogates					
Decachlorobiphenyl <surr>	116	60-125		%	08/30/10

Batch XGC7159
Method SW8082A
Instrument HP 6890 Series II ECD SV H F

SGS Ref.#	984733	Method Blank	**Printed Date/Time**	12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	POGX2335
Project Name/#	506.01		**Method**	EXT_1664OG
Matrix	Water (Surface, Eff., Ground)		**Date**	08/26/2010

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Oil & Grease HEM	1.80J	4.00	1.20	mg/L	08/26/10
Batch POG2515					
Method EPA 1664A					
Instrument					

SGS Ref.#	985031	Method Blank	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23453
Project Name/#	506.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	08/26/2010

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	0.124 U	0.200	0.0620	ug/L	08/27/10

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985037	Method Blank	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23453
Project Name/#	506.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	08/26/2010

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	0.124 U	0.200	0.0620	ug/L	08/27/10

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985102	Method Blank	**Printed Date/Time**	12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	MXX23454
Project Name/#	506.01		**Method**	SW3050B
Matrix	Soil/Solid (dry weight)		**Date**	08/27/2010

QC results affect the following production samples:

1104213005

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals by ICP/MS					
Antimony	0.0620 U	0.100	0.0310	mg/Kg	08/30/10
Arsenic	0.620 U	1.00	0.310	mg/Kg	08/30/10
Beryllium	0.0620 U	0.100	0.0310	mg/Kg	08/30/10
Cadmium	0.124 U	0.200	0.0620	mg/Kg	08/30/10
Chromium	0.240 U	0.400	0.120	mg/Kg	08/30/10
Copper	0.360 U	0.600	0.180	mg/Kg	08/30/10
Lead	0.124 U	0.200	0.0620	mg/Kg	08/30/10
Molybdenum	0.620 U	1.00	0.310	mg/Kg	08/30/10
Nickel	0.124 U	0.200	0.0620	mg/Kg	08/30/10
Selenium	0.300 U	0.500	0.150	mg/Kg	08/30/10
Silver	0.0620 U	0.100	0.0310	mg/Kg	08/30/10
Thallium	0.0124 U	0.0200	0.00620	mg/Kg	08/30/10
Zinc	0.620 U	1.00	0.310	mg/Kg	08/30/10

Batch MMS6653
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	985468	Method Blank	**Printed Date/Time**	12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	506.01			**Method**
Matrix	Soil/Solid (dry weight)			**Date**

QC results affect the following production samples:

1104213005

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Solids					
Total Solids	99.9			%	08/27/10
Batch	SPT8223				
Method	SM20 2540G				
Instrument					

SGS Ref.#	985767	Method Blank	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX23462
Project Name/#	506.01			**Method**	METHOD
Matrix	Soil/Solid (dry weight)			**Date**	08/30/2010

QC results affect the following production samples:

1104213005

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Metals Department					
Mercury	24.0 U	40.0	12.0	ug/Kg	08/30/10
Batch	MCV4629				
Method	SW7471B				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	982963	Duplicate	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX8008
Project Name/#	506.01			**Method**	EXT/CN4500
Original	1104262001			**Date**	8/20/2010 9:45:00AM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.0020J	0.0027 *	mg/L	26	(< 25)	08/20/2010

Batch WDA1998
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	982981	Duplicate	**Printed Date/Time**		12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX8008
Project Name/#	506.01			**Method**	EXT/CN4500
Original	1104201001			**Date**	8/20/2010 9:45:00AM
Matrix	Drinking Water				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.00300 U	0.00300 U	mg/L	0	(< 25)	08/20/2010

Batch WDA1998
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	985469	Duplicate	**Printed Date/Time**	12/29/2010 15:19
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	506.01			**Method**
				Date
Original	1104407025			
Matrix	Soil/Solid (dry weight)			

QC results affect the following production samples:

1104213005

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	24.7	26.0	%	5	(< 15)	08/27/2010

Batch SPT8223
Method SM20 2540G
Instrument

SGS Ref.#	982961	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
	982962	Lab Control Sample Duplicate	**Prep** **Batch**	WXX8008	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	506.01		**Date**	08/20/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.051	103	(75-125)			0.05 mg/L	08/20/2010
	LCSD	0.053	105		3	(< 25)	0.05 mg/L	08/20/2010

Batch	WDA1998
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	983503	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23417	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	506.01		**Date**	08/23/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	1010	101	(85-115)			1000 ug/L	08/24/2010
Arsenic	LCS	1050	105	(85-115)			1000 ug/L	08/24/2010
Beryllium	LCS	111	111	(85-115)			100 ug/L	08/24/2010
Cadmium	LCS	103	103	(85-115)			100 ug/L	08/24/2010
Chromium	LCS	412	103	(85-115)			400 ug/L	08/24/2010
Copper	LCS	1080	108	(85-115)			1000 ug/L	08/24/2010
Lead	LCS	1060	106	(85-115)			1000 ug/L	08/24/2010
Molybdenum	LCS	390	97	(85-115)			400 ug/L	08/24/2010
Nickel	LCS	1070	107	(85-115)			1000 ug/L	08/24/2010
Selenium	LCS	1100	110	(85-115)			1000 ug/L	08/24/2010
Silver	LCS	101	101	(85-115)			100 ug/L	08/24/2010
Thallium	LCS	10.6	106	(85-115)			10 ug/L	08/24/2010
Zinc	LCS	1060	106	(85-115)			1000 ug/L	08/24/2010

Batch	MMS6631
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984543	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23436	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	506.01		**Date**	08/25/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	3.83	96	(85-115)			4 ug/L	08/26/2010

Batch	MCV4622
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	984597	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23438	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	506.01		**Date**	08/25/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213030, 1104213031, 1104213034, 1104213035

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	1000	100	(85-115)			1000 ug/L	08/27/2010
Arsenic	LCS	1040	104	(85-115)			1000 ug/L	08/27/2010
Beryllium	LCS	113	113	(85-115)			100 ug/L	08/27/2010
Cadmium	LCS	104	104	(85-115)			100 ug/L	08/27/2010
Chromium	LCS	427	107	(85-115)			400 ug/L	08/27/2010
Copper	LCS	1110	111	(85-115)			1000 ug/L	08/27/2010
Lead	LCS	1090	109	(85-115)			1000 ug/L	08/27/2010
Molybdenum	LCS	407	102	(85-115)			400 ug/L	08/27/2010
Nickel	LCS	1120	112	(85-115)			1000 ug/L	08/27/2010
Selenium	LCS	1120	112	(85-115)			1000 ug/L	08/27/2010
Silver	LCS	106	106	(85-115)			100 ug/L	08/27/2010
Thallium	LCS	10.8	108	(85-115)			10 ug/L	08/27/2010
Zinc	LCS	1080	108	(85-115)			1000 ug/L	08/27/2010

Batch	MMS6640
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984730	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	XXX23477	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	506.01		**Date**	08/26/2010	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polychlorinated Biphenyls								
Aroclor-1016	LCS	210	94	(58-122)			222 ug/Kg	08/30/2010
Aroclor-1260	LCS	263	118	(61-130)			222 ug/Kg	08/30/2010
Surrogates								
Decachlorobiphenyl <surr>	LCS		117	(60-125)				08/30/2010

Batch	XGC7159
Method	SW8082A
Instrument	HP 6890 Series II ECD SV H F

SGS Ref.#	984734	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	POGX2335	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT_1664OG	
Project Name/#	506.01		**Date**	08/26/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Oil & Grease HEM	LCS	39.6	99	(78-114)			40 mg/L	08/26/2010

Batch	POG2515
Method	EPA 1664A
Instrument	

SGS Ref.#	985032	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23453	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	506.01		**Date**	08/26/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.37	109	(85-115)			4 ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985038	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23453	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	506.01		**Date**	08/26/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.15	104	(85-115)			4 ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985103	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23454	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3050B	
Project Name/#	506.01		**Date**	08/27/2010	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	53.0	106	(80-120)			50 mg/Kg	08/30/2010
Arsenic	LCS	53.2	106	(80-120)			50 mg/Kg	08/30/2010
Beryllium	LCS	5.66	113	(80-120)			5 mg/Kg	08/30/2010
Cadmium	LCS	5.46	109	(80-120)			5 mg/Kg	08/30/2010
Chromium	LCS	21.0	105	(80-120)			20 mg/Kg	08/30/2010
Copper	LCS	55.5	111	(80-120)			50 mg/Kg	08/30/2010
Lead	LCS	55.1	110	(80-120)			50 mg/Kg	08/30/2010
Molybdenum	LCS	19.7	99	(80-120)			20 mg/Kg	08/30/2010
Nickel	LCS	55.0	110	(80-120)			50 mg/Kg	08/30/2010
Selenium	LCS	56.0	112	(80-120)			50 mg/Kg	08/30/2010
Silver	LCS	5.46	109	(80-120)			5 mg/Kg	08/30/2010
Thallium	LCS	0.540	108	(80-120)			0.5 mg/Kg	08/30/2010
Zinc	LCS	53.7	107	(80-120)			50 mg/Kg	08/30/2010

Batch	MMS6653
Method	SW6020
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	985768	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:19
			Prep **Batch**	MXX23462	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	506.01		**Date**	08/30/2010	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	160	96	(80-120)			167 ug/Kg	08/30/2010

Batch	MCV4629
Method	SW7471B
Instrument	PSA Millennium mercury AA

SGS Ref.#	982964	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	WXX8008
				Method	Cyanide Distillation Kone Lab
				Date	08/20/2010
Original	1104262001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	0.0020J	.057	111	(75-125)			0.050	mg/L	08/20/2010

Batch WDA1998
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	982982	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	WXX8008
				Method	Cyanide Distillation Kone Lab
				Date	08/20/2010
Original	1104201001				
Matrix	Drinking Water				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	(0.00300) U	.037	74*	(75-125)			0.050	mg/L	08/20/2010

Batch WDA1998
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	983504	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23417
				Method	DW Digest for Metals on ICP-M
				Date	08/23/2010
Original	1104317001				
Matrix	Drinking Water				

QC results affect the following production samples:

1104213001, 1104213002, 1104213028, 1104213029, 1104213032, 1104213033

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS											
Antimony		MS	(1.00) U	1040	104	(70-130)			1000	ug/L	08/24/2010
Arsenic		MS	(5.00) U	1090	109	(70-130)			1000	ug/L	08/24/2010
Cadmium		MS	(0.500) U	106	106	(70-130)			100	ug/L	08/24/2010
Chromium		MS	(2.00) U	429	107	(70-130)			400	ug/L	08/24/2010
Copper		MS	28.6	1120	109	(70-130)			1000	ug/L	08/24/2010
Lead		MS	1.33	1080	108	(70-130)			1000	ug/L	08/24/2010
Nickel		MS	3.87	1100	110	(70-130)			1000	ug/L	08/24/2010
Selenium		MS	(5.00) U	1150	115	(70-130)			1000	ug/L	08/24/2010
Silver		MS	(1.00) U	105	105	(70-130)			100	ug/L	08/24/2010
Thallium		MS	(1.00) U	10.8	108	(70-130)			10.0	ug/L	08/24/2010
Zinc		MS	8.88	1100	109	(70-130)			1000	ug/L	08/24/2010

Batch MMS6631
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984546	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23436
				Method	Digestion Mercury (W)
				Date	08/25/2010
Original	1103835020				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	(2.00) U	3.55	44*	(85-115)			8.00	ug/L	08/26/2010

Batch MCV4622
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	984547	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23436
				Method	Digestion Mercury (W)
				Date	08/25/2010
Original	1103835020				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	(2.00) U	124	155*	(85-115)			80.0	ug/L	08/26/2010

Batch MCV4622
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	984550	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	984551	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23436
				Method	Digestion Mercury (W)
				Date	08/25/2010
Original	1104326006				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(0.124) U	6.78	85*	(85-115)			8.00	ug/L	08/26/2010
		MSD		6.17	77*		9	(< 15)	8.00	ug/L	08/26/2010

Batch	MCV4622
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	984552	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23436
				Method	Digestion Mercury (W)
				Date	08/25/2010
Original	1104326006				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	(0.124) U	9.86	123*	(85-115)			8.00	ug/L	08/26/2010

Batch MCV4622
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	984598	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23438
				Method	DW Digest for Metals on ICP-M
				Date	08/25/2010
Original	1104213024				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213030, 1104213031, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	(1.00) U	995	100	(70-130)			1000	ug/L	08/27/2010
Arsenic	MS	(5.00) U	1050	105	(70-130)			1000	ug/L	08/27/2010
Beryllium	MS	(0.400) U	102	102	(70-130)			100	ug/L	08/27/2010
Cadmium	MS	(0.500) U	101	101	(70-130)			100	ug/L	08/27/2010
Chromium	MS	(2.00) U	418	104	(70-130)			400	ug/L	08/27/2010
Copper	MS	10.3	907	90	(70-130)			1000	ug/L	08/27/2010
Lead	MS	0.315	1060	106	(70-130)			1000	ug/L	08/27/2010
Molybdenum	MS	(10.0) U	378	95	(70-130)			400	ug/L	08/27/2010
Nickel	MS	3.78	1110	111	(70-130)			1000	ug/L	08/27/2010
Selenium	MS	(5.00) U	326	33*	(70-130)			1000	ug/L	08/27/2010
Silver	MS	(1.00) U	52.6	53*	(70-130)			100	ug/L	08/27/2010
Thallium	MS	(1.00) U	10.1	101	(70-130)			10.0	ug/L	08/27/2010
Zinc	MS	22.9	1080	106	(70-130)			1000	ug/L	08/27/2010

Batch MMS6640
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984599	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23438
				Method	DW Digest for Metals on ICP-M
				Date	08/25/2010
Original	1104213024				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213030, 1104213031, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Selenium	BND	(5.00) U	343	110	(70-130)			313	ug/L	08/27/2010
Silver	BND	(1.00) U	32.1	103	(70-130)			31.3	ug/L	08/27/2010

Batch	MMS6640
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	984736	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	POGX2335
				Method	Extraction for EPA 1664 O&G
				Date	08/26/2010
Original	1105935001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213001, 1104213002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Oil & Grease HEM	MS	(4.08) U	41.4	101	(78-114)			41.2	mg/L	08/26/2010

Batch POG2515
Method EPA 1664A
Instrument

SGS Ref.#	985033	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1104213032				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	(0.200) U	4.91	61*	(85-115)			8.00	ug/L	08/27/2010

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985034	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1104213032				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	(0.200) U	7.23	90	(85-115)			8.00	ug/L	08/27/2010

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985039	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1104255009				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	(0.200) U	6.51	81*	(85-115)			8.00	ug/L	08/27/2010

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985040	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	985041	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1105938001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(0.124) U	6.65	83*	(85-115)			8.00	ug/L	08/27/2010
		MSD		6.09	76*		9	(< 15)	8.00	ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985042	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1105938001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	(0.124) U	8.92	112	(85-115)			8.00	ug/L	08/27/2010

Batch MCV4627
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	985045	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	985046	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1105938009				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(0.124) U	6.04	76*	(85-115)			8.00	ug/L	08/27/2010
		MSD		6.66	83*		10	(< 15)	8.00	ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985047	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1105938009				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	(0.124) U	8.46	106	(85-115)			8.00	ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985050	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	985051	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23453
				Method	Digestion Mercury (W)
				Date	08/26/2010
Original	1104326010				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1104213024, 1104213025, 1104213028, 1104213029, 1104213030, 1104213031, 1104213032, 1104213033, 1104213034, 1104213035

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	(0.124) U	7.19	90	(85-115)			8.00	ug/L	08/27/2010
		MSD		8.03	100		11	(< 15)	8.00	ug/L	08/27/2010

Batch	MCV4627
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	985104	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	985105	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23454
				Method	Soils/Solids Digest for Metals b
				Date	08/27/2010
Original	1104390013				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS											
Arsenic		MS	10.3	64.8	104	(80-120)			52.3	mg/Kg	08/30/2010
		MSD		61.2	101		6	(< 20)	50.4	mg/Kg	08/30/2010
Cadmium		MS	0.105J	5.81	109	(80-120)			5.23	mg/Kg	08/30/2010
		MSD		5.41	105		7	(< 20)	5.04	mg/Kg	08/30/2010
Chromium		MS	22.3	48.1	123*	(80-120)			21.0	mg/Kg	08/30/2010
		MSD		44.9	112		7	(< 20)	20.2	mg/Kg	08/30/2010
Lead		MS	12.0	60.8	93	(80-120)			52.3	mg/Kg	08/30/2010
		MSD		57.5	90		6	(< 20)	50.4	mg/Kg	08/30/2010
Nickel		MS	25.6	87.1	118	(80-120)			52.3	mg/Kg	08/30/2010
		MSD		82.2	112		6	(< 20)	50.4	mg/Kg	08/30/2010
Selenium		MS	(0.306) U	51.4	98	(80-120)			52.3	mg/Kg	08/30/2010
		MSD		48.7	97		5	(< 20)	50.4	mg/Kg	08/30/2010
Silver		MS	0.102	5.52	104	(80-120)			5.23	mg/Kg	08/30/2010
		MSD		5.14	100		7	(< 20)	5.04	mg/Kg	08/30/2010

Batch MMS6653
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	985106	Bench Spike DIGESTED	**Printed Date/Time**		12/29/2010 15:19
			Prep	**Batch**	MXX23454
				Method	Soils/Solids Digest for Metals b
				Date	08/27/2010
Original	1104390013				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Chromium	BND	22.3	154	103	(75-125)			127	mg/Kg	08/30/2010

Batch MMS6653
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P4

SGS Ref.#	985769	Matrix Spike	**Printed Date/Time**		12/29/2010 15:19
	985770	Matrix Spike Duplicate	**Prep**	**Batch**	MXX23462
				Method	Digestion Mercury (S)
				Date	08/30/2010
Original	1104363003				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1104213005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	52.5	435	106	(80-120)			362	ug/Kg	08/30/2010
		MSD		402	97		8	(< 20)	362	ug/Kg	08/30/2010

Batch	MCV4629
Method	SW7471B
Instrument	PSA Millennium mercury AA

SGS Ref.#	985773	Matrix Spike TCLP	**Printed Date/Time**		12/29/2010 15:19
	985774	Matrix Spike Dup TCLP	**Prep**	**Batch**	MXX23462
				Method	Digestion Mercury (O)
				Date	08/30/2010
Original	1104311002				
Matrix	Oil/Xylene Miscible Liquid				

QC results affect the following production samples:

1104213005

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
TCLP Constituents Metals										
Mercury	MST	(18.3) U	177	69	(50-150)			257	ug/L	08/30/2010
	MSDT		167	65		6	(< 20)	257	ug/L	08/30/2010

Batch	MCV4629
Method	SW7471B
Instrument	PSA Millennium mercury AA

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1104213

Required Completion Date: 30 days.	P.O. #: AK10-1013	KLI Proj. #:506.01

ANALYSIS TYPE: Total and Dissolved Metals: (By EPA 200.8/245.1) Ag, As, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl, Zn, Hg

MATRIX: Water	**Preservative:** 6°C, Total metals w/ HNO3	**Type of Container:** 250 ml HDPE

STATION IDENTIFICATION	SAMPLE NUMBER	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
(32)A MOA10MET023	Influent	1	8/19/10 0800		Analyze for total metals
(34)A-B MOA10MET024	Influent	1			Analyze for dissolved metals
(33)A MOA10MET025	Effluent	1			Analyze for total metals
(35)A-B MOA10MET026	Effluent	1			Analyze for dissolved metals

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	8/19/10 1000	hand	[signature]	8/19/10 1000
[signature]	8/19/10 1045	hand		
			[signature]	8/19/10 1045

SAMPLED BY (NAME/SIGNATURE): _____

TB: 2.2
10D

C:\Projects\MOA\MOA10\COC's wet\MOA10_wet_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1104213

Required Completion Date: 30 days.	P.O. #: AK10-1013	KLI Proj. #:506.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	**Preservative:** NaOH, 6°C Effluent samples contain L- Ascorbic Acid	**Type of Container:**

STATION IDENTIFICATION	SAMPLE NUMBER	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
32 B MOA10TCN019	Influent	1	8/19/10 0800		
33 B MOA10TCN020	Effluent	1	8/19/10 0800		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	8/19/10 1000	hand	[signature]	8/19/10 1000
[signature]	8/19/10 1045	hand		
			[signature]	8/19/10 1045

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's wet\MOA10_wet_COC.doc

SGS

1104213

SAMPLE RECEIPT FORM

Review Criteria:	Condition:	Comments/Action Taken:
Were **custody seals** intact? Note # & location, if applicable. COC accompanied samples?	Yes No N/A Yes No N/A	
Temperature blank compliant* (i.e., 0-6°C after correction factor)? ** Note: Exemption permitted for chilled samples collected less than 8 hours ago.* Cooler ID: _____ @ Ambient w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ Cooler ID: _____ @ _____ w/ Therm.ID: _____ *Note: If non-compliant, use form FS-0029 to document affected samples/analyses.* If samples are received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled." **If temperature(s) <0°C, were all sample containers ice free?**	Yes No N/A Yes No N/A	
Delivery method (specify all that apply): Client USPS Alert Courier Road Runner AK Air Lynden Carlile ERA PenAir FedEx UPS NAC Other:	Note airbill/tracking # See Attached or N/A	
→ For samples received with payment, note amount ($) and cash / check / CC (circle one). → For samples received in FBKS, ANCH staff will verify all criteria are reviewed.		SRF Initiated by: N/A N/A
Do samples **match COC*** (i.e., sample IDs, dates/times collected)? ** Note: Exemption permitted if collection times differ by less than an hour; in which case, the times on the COC will be used.* Are analyses requested unambiguous?	Yes No N/A Yes No N/A	samples -32 -> -33 8 are marked on bottles for cyanide analysis.
Were samples in **good condition** (no leaks/cracks/breakage)? Packing material used (specify all that apply): Bubble Wrap Separate plastic bags Vermiculite Other:	Yes No N/A	
Were all VOA vials **free of headspace** (i.e., bubbles ≤6 mm)? Were all soil VOAs **field extracted** with MeOH+BFB? Were the bottles provided by SGS? (Note apparent exceptions.)	Yes No N/A Yes No N/A	
Were **proper containers** (type/mass/volume/preservative*) used? ** Note: Exemption permitted for waters to be analyzed for metals.* Were **Trip Blanks** (i.e., VOAs, LL-Hg) in cooler with samples?	Yes No N/A Yes No N/A	
For preserved waters (other than VOA vials, LL-Mercury or microbiological analyses), was **pH verified and compliant**? If pH was adjusted, were bottles flagged (i.e., stickers)? *Refer to attached bottle sheet (form F066) for documentation.*	Yes No N/A Yes No N/A	
For **RUSH** or **SHORT HOLD TIME** samples, were the COC & this SRF flagged, bottles flagged (e.g., stickers) and lab notified?	Yes No N/A	
For client requested, **site-specific QC** (e.g., MS/MSD/DUP), were bottles flagged (e.g., stickers) and numbered accordingly?	Yes No N/A	
For **special handling** (e.g., "MI" or foreign soils, lab filter, limited volume, Ref Lab), were bottles/paperwork flagged (e.g., sticker)?	Yes No N/A	
Was the WO# recorded in Front Counter/Sample Receiving log? **For any question answered "No," has the PM been notified and the problem resolved (or paperwork put in their bin)?**	Yes No N/A Yes No N/A	SRF Completed by: [illegible] Bottle Sheet by: PM = Forest N/A
Was **PEER REVIEW** of sample numbering completed (i.e., compare WO# on containers to COC, container ID on containers to COC, unique lab ID on each container?)	Yes No N/A	Peer Reviewed by: KMB Metrics: 1500 8/19/10

Additional notes (if applicable):
#35: USE COC ID PER CLIENT. FAT 8/19/10
CLIENT IS AWARE OF TEMP. RUN PER CLIENT 8/19/10

WO# (7 digits)	Sample # - Sample #	Container ID - Container ID	Matrix	QC	Preservative (CHECKED)	TEST GROUP PRINT LABELS	Notes: ANOMALIES - e.g., preservative added or SPECIAL HANDLING - e.g., Multi-Incremental (MI), Field Filter (FF), Lab Filter (LF), use "same jar as" (SJA) for QC, 2xMeOH, bubbles, etc.
SAMPLE ID			TYPE		CONTAINERS	ANALYSIS	Type comments below:
1104213	032 033	A A	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	
1104213	032 033	B B	1 Water		NaOH (pH >12)	W_Waters_Dept	
1104213	034 035	A A	1 Water		N/A	W_Metals_Total/Diss.	
1104213	034 035	B B	1 Water		HNO3 (pH <2)	W_Metals_Total/Diss.	LAB FILTERS of Jars 34-35 A

1104213

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

September 07, 2010

Annie Adkins
SGS North America, Inc.
200 W Potter Dr.
Anchorage, AK 99518

RE: Discharge Water

Enclosed are the results of analyses for samples received by the laboratory on 08/20/10 09:10. The following list is a summary of the Work Orders contained in this report, generated on 09/07/10 16:04.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PTH0652	Discharge Water	1104213

TestAmerica Portland

Christina Woodcock For Estella Rieben, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PTH0652
TestAmerica Sample Delivery Group: PTH0652
Client Project/Site: 1104213
Client Project Description: Discharge Water

For:
SGS North America, Inc.
200 W Potter Dr.
Anchorage, AK 99518

Attn: Annie Adkins

Authorized for release by:
1/7/2011 11:00 PM
Christina Woodcock
Project Manager
christina.woodcock@testamericainc.com

Designee for

Estella Rieben
Project Manager
Estella.Rieben@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Sample Summary

Client: SGS North America, Inc.
Project/Site: 1104213

TestAmerica Job ID: PTH0652

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PTH0652-01	Influent	Water	08/17/10 08:00	08/20/10 09:10
PTH0652-02	Effluent	Water	08/17/10 08:00	08/20/10 09:10
PTH0652-03	Sludge	Other dry	08/17/10 09:55	08/20/10 09:10

Case Narrative

Client: SGS North America, Inc.
Project/Site: 1104213

TestAmerica Job ID: PTH0652
SDG: PTH0652

Job ID: PTH0652

Laboratory: TestAmerica Portland

Narrative

01/17/11: Amended Report

The analyte list for 625 and 8270C analyses did not include the 3,4-Methylphenol compound in the last report. The results for this compund has been added to all samples.

11/29/10: Amended Report

The analyte list for 625 and 8270 are not the same. The client requested a modified 8270 list to match the 625 list. This is now provided in this amended report.

Detection Summary

Client: SGS North America, Inc.
Project/Site: 1104213

TestAmerica Job ID: PTH0652
SDG: PTH0652

Client Sample ID: Influent — Lab Sample ID: PTH0652-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenol	336	RL3	20.0		ug/l	4		EPA 625	total
3-,4-Methylphenol	221	RL3	20.0		ug/l	4		EPA 625	total

Client Sample ID: Effluent — Lab Sample ID: PTH0652-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	7.04		5.00		ug/l	1		EPA 625	total
Phenol	18.0		5.00		ug/l	1		EPA 625	total
3-,4-Methylphenol	84.1		5.00		ug/l	1		EPA 625	total

Client Sample ID: Sludge — Lab Sample ID: PTH0652-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3-,4-Methylphenol	141	RL3	21.9		mg/kg dry	20	☼	EPA 8270C	total

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625

Client Sample ID: Influent
Date Collected: 08/17/10 08:00
Date Received: 08/20/10 09:10

Lab Sample ID: PTH0652-01
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Acenaphthylene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Anthracene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzidine	ND	RL3 L6	240		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzo (a) anthracene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzo (a) pyrene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzo (b) fluoranthene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzo (ghi) perylene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Benzo (k) fluoranthene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
4-Bromophenyl phenyl ether	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Butyl benzyl phthalate	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
4-Chloro-3-methylphenol	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Bis(2-chloroethoxy)methane	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Bis(2-chloroethyl)ether	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Bis(2-chloroisopropyl)ether	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2-Chloronaphthalene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2-Chlorophenol	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
4-Chlorophenyl phenyl ether	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Chrysene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Di-n-butyl phthalate	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Di-n-octyl phthalate	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Dibenzo (a,h) anthracene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
1,2-Dichlorobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
1,3-Dichlorobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
1,4-Dichlorobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
3,3´-Dichlorobenzidine	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,4-Dichlorophenol	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Diethyl phthalate	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,4-Dimethylphenol	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Dimethyl phthalate	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
4,6-Dinitro-2-methylphenol	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,4-Dinitrophenol	ND	RL3	100		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,4-Dinitrotoluene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,6-Dinitrotoluene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Bis(2-ethylhexyl)phthalate	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Fluoranthene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Fluorene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Hexachlorobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Hexachlorobutadiene	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Hexachlorocyclopentadiene	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Hexachloroethane	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Indeno (1,2,3-cd) pyrene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Isophorone	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Naphthalene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Nitrobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2-Nitrophenol	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
4-Nitrophenol	ND	RL3	100		ug/l		08/24/10 15:00	08/31/10 04:53	4
N-Nitrosodimethylamine	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
N-Nitrosodi-n-propylamine	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
N-Nitrosodiphenylamine	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Client Sample ID: Influent — **Lab Sample ID: PTH0652-01**
Date Collected: 08/17/10 08:00 — **Matrix: Water**
Date Received: 08/20/10 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND	RL3	40.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Phenanthrene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Phenol	**336**	**RL3**	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Pyrene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
1,2,4-Trichlorobenzene	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
2,4,6-Trichlorophenol	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
1,2 Diphenylhydrazine (as Azobenzene)	ND	RL3	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
3-,4-Methylphenol	**221**	**RL3**	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
Carbazole	ND	RL3 A-01	20.0		ug/l		08/24/10 15:00	08/31/10 04:53	4
n-Decane	ND	RL3 A-01	40.0		ug/l		08/24/10 15:00	09/03/10 23:48	4
n-Octadecane	ND	RL3 A-01	40.0		ug/l		08/24/10 15:00	09/03/10 23:48	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75.5*	*RL3*	*22 - 120*	*08/24/10 15:00*	*08/31/10 04:53*	*4*
2-Fluorophenol	*94.1*	*RL3*	*5 - 120*	*08/24/10 15:00*	*08/31/10 04:53*	*4*
Nitrobenzene-d5	*94.0*	*RL3*	*26 - 127*	*08/24/10 15:00*	*08/31/10 04:53*	*4*
Phenol-d6	*99.7*	*RL3*	*4 - 121*	*08/24/10 15:00*	*08/31/10 04:53*	*4*
p-Terphenyl-d14	*98.2*	*RL3*	*37 - 130*	*08/24/10 15:00*	*08/31/10 04:53*	*4*
2,4,6-Tribromophenol	*73.8*	*RL3*	*21 - 129*	*08/24/10 15:00*	*08/31/10 04:53*	*4*

Client Sample ID: Effluent — **Lab Sample ID: PTH0652-02**
Date Collected: 08/17/10 08:00 — **Matrix: Water**
Date Received: 08/20/10 09:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Acenaphthylene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Anthracene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzidine	ND	L6	60.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzo (a) anthracene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzo (a) pyrene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzo (b) fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzo (ghi) perylene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Benzo (k) fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
4-Bromophenyl phenyl ether	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Butyl benzyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
4-Chloro-3-methylphenol	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Bis(2-chloroethyl)ether	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Bis(2-chloroisopropyl)ether	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
2-Chloronaphthalene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
2-Chlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
4-Chlorophenyl phenyl ether	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Chrysene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Di-n-butyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Di-n-octyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Dibenzo (a,h) anthracene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
1,2-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
1,3-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
1,4-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
3,3´-Dichlorobenzidine	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Client Sample ID: Effluent
Date Collected: 08/17/10 08:00
Date Received: 08/20/10 09:10

Lab Sample ID: PTH0652-02
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Diethyl phthalate	**7.04**		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
2,4-Dimethylphenol	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Dimethyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
4,6-Dinitro-2-methylphenol	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
2,4-Dinitrophenol	ND		25.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
2,4-Dinitrotoluene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
2,6-Dinitrotoluene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Bis(2-ethylhexyl)phthalate	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Fluorene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Hexachlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Hexachlorobutadiene	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Hexachlorocyclopentadiene	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Hexachloroethane	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Indeno (1,2,3-cd) pyrene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Isophorone	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Naphthalene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Nitrobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
2-Nitrophenol	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
4-Nitrophenol	ND		25.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
N-Nitrosodimethylamine	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
N-Nitrosodiphenylamine	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Pentachlorophenol	ND		10.0		ug/l		08/24/10 15:00	08/31/10 05:15	1
Phenanthrene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Phenol	**18.0**		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Pyrene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
1,2,4-Trichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
2,4,6-Trichlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
1,2 Diphenylhydrazine (as Azobenzene)	ND		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
3-,4-Methylphenol	**84.1**		5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
Carbazole	ND	A-01	5.00		ug/l		08/24/10 15:00	08/31/10 05:15	1
n-Decane	ND	A-01	10.0		ug/l		08/24/10 15:00	09/04/10 00:34	1
n-Octadecane	ND	A-01	10.0		ug/l		08/24/10 15:00	09/04/10 00:34	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54.7*		*22 - 120*	*08/24/10 15:00*	*08/31/10 05:15*	*1*
2-Fluorophenol	*79.2*		*5 - 120*	*08/24/10 15:00*	*08/31/10 05:15*	*1*
Nitrobenzene-d5	*81.6*		*26 - 127*	*08/24/10 15:00*	*08/31/10 05:15*	*1*
Phenol-d6	*80.2*		*4 - 121*	*08/24/10 15:00*	*08/31/10 05:15*	*1*
p-Terphenyl-d14	*98.2*		*37 - 130*	*08/24/10 15:00*	*08/31/10 05:15*	*1*
2,4,6-Tribromophenol	*85.8*		*21 - 129*	*08/24/10 15:00*	*08/31/10 05:15*	*1*

Method: EPA 8270C - Semivolatile Organic Compounds per EPA Method 8270C

Client Sample ID: Sludge
Date Collected: 08/17/10 09:55
Date Received: 08/20/10 09:10

Lab Sample ID: PTH0652-03
Matrix: Other dry
Percent Solids: 30.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2 Diphenylhydrazine (as Azobenzene)	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzidine	ND	RL3 L6	133		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
N-Nitrosodimethylamine	ND	RL3	33.2		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Acenaphthene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Acenaphthylene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Anthracene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzo (a) anthracene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzo (a) pyrene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzo (b) fluoranthene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzo (ghi) perylene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Benzo (k) fluoranthene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
4-Bromophenyl phenyl ether	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Butyl benzyl phthalate	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
4-Chloro-3-methylphenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Bis(2-chloroethoxy)methane	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Bis(2-chloroethyl)ether	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Bis(2-chloroisopropyl)ether	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2-Chloronaphthalene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2-Chlorophenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
4-Chlorophenyl phenyl ether	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Chrysene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Di-n-butyl phthalate	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Di-n-octyl phthalate	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Dibenzo (a,h) anthracene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
1,2-Dichlorobenzene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
1,3-Dichlorobenzene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
1,4-Dichlorobenzene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
3,3´-Dichlorobenzidine	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,4-Dichlorophenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Diethyl phthalate	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,4-Dimethylphenol	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Dimethyl phthalate	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
4,6-Dinitro-2-methylphenol	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,4-Dinitrophenol	ND	RL3	133		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,4-Dinitrotoluene	ND	RL3	33.2		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,6-Dinitrotoluene	ND	RL3	33.2		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Bis(2-ethylhexyl)phthalate	ND	RL3	133		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Fluoranthene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Fluorene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Hexachlorobenzene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Hexachlorobutadiene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Hexachlorocyclopentadiene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Hexachloroethane	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Indeno (1,2,3-cd) pyrene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Isophorone	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
3-,4-Methylphenol	**141**	**RL3**	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Naphthalene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Nitrobenzene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2-Nitrophenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
4-Nitrophenol	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20

Method: EPA 8270C - Semivolatile Organic Compounds per EPA Method 8270C (Continued)

Client Sample ID: Sludge
Date Collected: 08/17/10 09:55
Date Received: 08/20/10 09:10

Lab Sample ID: PTH0652-03
Matrix: Other dry
Percent Solids: 30.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
N-Nitrosodiphenylamine	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Pentachlorophenol	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Phenanthrene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Phenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
Pyrene	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
1,2,4-Trichlorobenzene	ND	RL3	66.3		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20
2,4,6-Trichlorophenol	ND	RL3	21.9		mg/kg dry	☼	08/31/10 09:04	09/01/10 19:52	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*	*RL3 Z3*	*30 - 126*	*08/31/10 09:04*	*09/01/10 19:52*	*20*
2-Fluorophenol	*110*	*RL3 Z3*	*28 - 119*	*08/31/10 09:04*	*09/01/10 19:52*	*20*
Nitrobenzene-d5	*114*	*RL3 Z3*	*26 - 117*	*08/31/10 09:04*	*09/01/10 19:52*	*20*
Phenol-d6	*117*	*RL3 Z3*	*35 - 125*	*08/31/10 09:04*	*09/01/10 19:52*	*20*
p-Terphenyl-d14	*111*	*RL3 Z3*	*26 - 143*	*08/31/10 09:04*	*09/01/10 19:52*	*20*
2,4,6-Tribromophenol	*88.8*	*RL3 Z3*	*30 - 127*	*08/31/10 09:04*	*09/01/10 19:52*	*20*

Analytical Data

Client: SGS North America, Inc.
Project/Site: 1104213

TestAmerica Job ID: PTH0652
SDG: PTH0652

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Client Sample ID: Sludge
Date Collected: 08/17/10 09:55
Date Received: 08/20/10 09:10

Lab Sample ID: PTH0652-03
Matrix: Other dry
Percent Solids: 30.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	30.1		0.0100		% by Weight		08/20/10 18:25	08/23/10 09:20	1

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625

Lab Sample ID: 10H0771-BLK1
Matrix: Water
Analysis Batch: 10H0771

Client Sample ID: 10H0771-BLK1
Prep Type: total
Prep Batch: 10H0771_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Acenaphthylene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Anthracene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzidine	ND	L6	60.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzo (a) anthracene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzo (a) pyrene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzo (b) fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzo (ghi) perylene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Benzo (k) fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
4-Bromophenyl phenyl ether	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Butyl benzyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
4-Chloro-3-methylphenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Bis(2-chloroethyl)ether	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Bis(2-chloroisopropyl)ether	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
2-Chloronaphthalene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2-Chlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
4-Chlorophenyl phenyl ether	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Chrysene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Di-n-butyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Di-n-octyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Dibenzo (a,h) anthracene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
1,2-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
1,3-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
1,4-Dichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
3,3´-Dichlorobenzidine	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,4-Dichlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Diethyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,4-Dimethylphenol	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Dimethyl phthalate	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
4,6-Dinitro-2-methylphenol	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,4-Dinitrophenol	ND		25.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,4-Dinitrotoluene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,6-Dinitrotoluene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Bis(2-ethylhexyl)phthalate	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Fluoranthene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Fluorene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Hexachlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Hexachlorobutadiene	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Hexachlorocyclopentadiene	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Hexachloroethane	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Indeno (1,2,3-cd) pyrene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Isophorone	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Naphthalene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Nitrobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2-Nitrophenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
4-Nitrophenol	ND		25.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
N-Nitrosodimethylamine	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Lab Sample ID: 10H0771-BLK1 — **Client Sample ID: 10H0771-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Pentachlorophenol	ND		10.0		ug/l		08/24/10 15:00	08/30/10 21:43	1
Phenanthrene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Phenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Pyrene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
1,2,4-Trichlorobenzene	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
2,4,6-Trichlorophenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
1,2 Diphenylhydrazine (as Azobenzene)	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
3-,4-Methylphenol	ND		5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1
Carbazole	ND	A-01	5.00		ug/l		08/24/10 15:00	08/30/10 21:43	1

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66.0*		*22 - 120*	*08/24/10 15:00*	*08/30/10 21:43*	*1*
2-Fluorophenol	*84.8*		*5 - 120*	*08/24/10 15:00*	*08/30/10 21:43*	*1*
Nitrobenzene-d5	*78.3*		*26 - 127*	*08/24/10 15:00*	*08/30/10 21:43*	*1*
Phenol-d6	*82.6*		*4 - 121*	*08/24/10 15:00*	*08/30/10 21:43*	*1*
p-Terphenyl-d14	*97.5*		*37 - 130*	*08/24/10 15:00*	*08/30/10 21:43*	*1*
2,4,6-Tribromophenol	*71.0*		*21 - 129*	*08/24/10 15:00*	*08/30/10 21:43*	*1*

Lab Sample ID: 10H0771-BLK1 — **Client Sample ID: 10H0771-BLK1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Decane	ND	A-01	10.0		ug/l		08/24/10 15:00	09/03/10 19:11	1
n-Octadecane	ND	A-01	10.0		ug/l		08/24/10 15:00	09/03/10 19:11	1

Lab Sample ID: 10H0771-BS1 — **Client Sample ID: 10H0771-BS1**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	50.0	44.4		ug/l		88.8	47 - 145
Acenaphthylene	50.0	37.8		ug/l		75.6	33 - 145
Anthracene	50.0	46.8		ug/l		93.7	27 - 133
Benzidine	40.0	ND	L6	ug/l		51.1	1 - 150
Benzo (a) anthracene	50.0	46.7		ug/l		93.3	33 - 143
Benzo (a) pyrene	50.0	50.2		ug/l		100	17 - 163
Benzo (b) fluoranthene	50.0	57.4		ug/l		115	24 - 159
Benzo (ghi) perylene	50.0	48.4		ug/l		96.9	1 - 219
Benzo (k) fluoranthene	50.0	47.9		ug/l		95.9	11 - 162
4-Bromophenyl phenyl ether	50.0	45.4		ug/l		90.9	53 - 127
Butyl benzyl phthalate	50.0	50.1		ug/l		100	1 - 152
4-Chloro-3-methylphenol	50.0	56.7		ug/l		113	22 - 147
Bis(2-chloroethoxy)methane	50.0	45.7		ug/l		91.4	33 - 184
Bis(2-chloroethyl)ether	50.0	50.4		ug/l		101	12 - 158
Bis(2-chloroisopropyl)ether	50.0	42.8		ug/l		85.5	36 - 166
2-Chloronaphthalene	50.0	42.3		ug/l		84.5	60 - 118
2-Chlorophenol	50.0	52.0		ug/l		104	23 - 134

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Lab Sample ID: 10H0771-BS1
Matrix: Water
Analysis Batch: 10H0771

Client Sample ID: 10H0771-BS1
Prep Type: total
Prep Batch: 10H0771_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
4-Chlorophenyl phenyl ether	50.0	48.5		ug/l		97.1	25 - 158
Chrysene	50.0	47.2		ug/l		94.4	17 - 168
Di-n-butyl phthalate	50.0	50.6		ug/l		101	1 - 118
Di-n-octyl phthalate	50.0	57.9		ug/l		116	4 - 146
Dibenzo (a,h) anthracene	50.0	50.0		ug/l		100	1 - 227
1,2-Dichlorobenzene	50.0	23.8		ug/l		47.5	6 - 129
1,3-Dichlorobenzene	50.0	21.3		ug/l		42.6	1 - 172
1,4-Dichlorobenzene	50.0	21.4		ug/l		42.7	8 - 124
3,3´-Dichlorobenzidine	40.0	28.2		ug/l		70.6	1 - 262
2,4-Dichlorophenol	50.0	53.0		ug/l		106	39 - 135
Diethyl phthalate	50.0	49.1		ug/l		98.2	1 - 114
2,4-Dimethylphenol	50.0	40.1		ug/l		80.3	32 - 119
Dimethyl phthalate	50.0	47.8		ug/l		95.6	1 - 112
4,6-Dinitro-2-methylphenol	50.0	56.3		ug/l		113	1 - 181
2,4-Dinitrophenol	50.0	47.6		ug/l		95.2	1 - 191
2,4-Dinitrotoluene	50.0	50.3		ug/l		101	39 - 139
2,6-Dinitrotoluene	50.0	45.8		ug/l		91.6	50 - 158
Bis(2-ethylhexyl)phthalate	50.0	48.1		ug/l		96.1	8 - 158
Fluoranthene	50.0	51.5		ug/l		103	26 - 137
Fluorene	50.0	45.5		ug/l		90.9	59 - 121
Hexachlorobenzene	50.0	46.5		ug/l		93.0	1 - 152
Hexachlorobutadiene	50.0	23.9		ug/l		47.7	5 - 116
Hexachlorocyclopentadiene	50.0	19.6		ug/l		39.1	1 - 150
Hexachloroethane	50.0	18.1		ug/l		36.2	5 - 113
Indeno (1,2,3-cd) pyrene	50.0	49.8		ug/l		99.7	1 - 171
Isophorone	50.0	45.8		ug/l		91.6	21 - 196
Naphthalene	50.0	35.7		ug/l		71.4	21 - 133
Nitrobenzene	50.0	44.0		ug/l		88.1	35 - 180
2-Nitrophenol	50.0	50.4		ug/l		101	29 - 182
4-Nitrophenol	50.0	56.6		ug/l		113	1 - 132
N-Nitrosodimethylamine	50.0	43.7		ug/l		87.4	1 - 150
N-Nitrosodi-n-propylamine	50.0	49.3		ug/l		98.6	1 - 230
N-Nitrosodiphenylamine	50.0	36.5		ug/l		73.0	1 - 150
Pentachlorophenol	50.0	56.6		ug/l		113	14 - 176
Phenanthrene	50.0	50.1		ug/l		100	54 - 120
Phenol	50.0	48.9		ug/l		97.7	5 - 112
Pyrene	50.0	48.2		ug/l		96.4	52 - 122
1,2,4-Trichlorobenzene	50.0	29.2		ug/l		58.5	11 - 142
2,4,6-Trichlorophenol	50.0	49.9		ug/l		99.7	37 - 144
1,2 Diphenylhydrazine (as Azobenzene)	50.0	46.1		ug/l		92.2	1 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75.2*		*22 - 120*
2-Fluorophenol	*86.0*		*5 - 120*
Nitrobenzene-d5	*82.1*		*26 - 127*
Phenol-d6	*82.3*		*4 - 121*
p-Terphenyl-d14	*93.5*		*37 - 130*
2,4,6-Tribromophenol	*90.8*		*21 - 129*

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Lab Sample ID: 10H0771-MS1
Matrix: Water
Analysis Batch: 10H0771

Client Sample ID: PTH0568-01
Prep Type: total
Prep Batch: 10H0771_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	ND		50.0	49.7		ug/l		99.5	45 - 145
Acenaphthylene	ND		50.0	41.8		ug/l		83.6	20 - 150
Anthracene	ND		50.0	52.0		ug/l		104	20 - 150
Benzidine	ND		40.0	ND	L6	ug/l		24.7	1 - 150
Benzo (a) anthracene	ND		50.0	51.3		ug/l		103	20 - 150
Benzo (a) pyrene	ND		50.0	53.8		ug/l		108	10 - 175
Benzo (b) fluoranthene	ND		50.0	59.5		ug/l		119	10 - 175
Benzo (ghi) perylene	ND		50.0	54.1		ug/l		108	1 - 225
Benzo (k) fluoranthene	ND		50.0	56.9		ug/l		114	1 - 175
4-Bromophenyl phenyl ether	ND		50.0	50.0		ug/l		100	20 - 150
Butyl benzyl phthalate	ND		50.0	56.9		ug/l		114	1 - 175
4-Chloro-3-methylphenol	ND		50.0	61.1		ug/l		122	10 - 175
Bis(2-chloroethoxy)methane	ND		50.0	48.9		ug/l		97.7	10 - 200
Bis(2-chloroethyl)ether	ND		50.0	52.9		ug/l		106	1 - 175
Bis(2-chloroisopropyl)ether	ND		50.0	45.0		ug/l		90.1	10 - 175
2-Chloronaphthalene	ND		50.0	47.1		ug/l		94.2	20 - 150
2-Chlorophenol	ND		50.0	52.0		ug/l		104	10 - 150
4-Chlorophenyl phenyl ether	ND		50.0	56.2		ug/l		112	10 - 175
Chrysene	ND		50.0	51.9		ug/l		104	5 - 175
Di-n-butyl phthalate	ND		50.0	55.2		ug/l		110	1 - 150
Di-n-octyl phthalate	ND		50.0	65.1		ug/l		130	1 - 175
Dibenzo (a,h) anthracene	ND		50.0	58.2		ug/l		116	1 - 250
1,2-Dichlorobenzene	ND		50.0	29.7		ug/l		59.3	1 - 150
1,3-Dichlorobenzene	ND		50.0	25.7		ug/l		51.5	1 - 200
1,4-Dichlorobenzene	ND		50.0	26.5		ug/l		52.9	1 - 150
3,3´-Dichlorobenzidine	ND		40.0	29.5		ug/l		73.8	1 - 275
2,4-Dichlorophenol	ND		50.0	53.9		ug/l		108	10 - 150
Diethyl phthalate	ND		50.0	54.2		ug/l		108	1 - 150
2,4-Dimethylphenol	ND		50.0	43.7		ug/l		87.4	5 - 150
Dimethyl phthalate	ND		50.0	50.9		ug/l		102	1 - 150
4,6-Dinitro-2-methylphenol	ND		50.0	59.2		ug/l		118	1 - 200
2,4-Dinitrophenol	ND		50.0	47.0		ug/l		94.1	1 - 200
2,4-Dinitrotoluene	ND		50.0	56.3		ug/l		113	20 - 150
2,6-Dinitrotoluene	ND		50.0	51.4		ug/l		103	20 - 175
Bis(2-ethylhexyl)phthalate	ND		50.0	57.4		ug/l		115	1 - 175
Fluoranthene	ND		50.0	57.2		ug/l		114	10 - 150
Fluorene	ND		50.0	52.3		ug/l		105	20 - 150
Hexachlorobenzene	ND		50.0	50.8		ug/l		102	1 - 175
Hexachlorobutadiene	ND		50.0	32.7		ug/l		65.3	1 - 150
Hexachlorocyclopentadiene	ND		50.0	23.6		ug/l		47.2	1 - 175
Hexachloroethane	ND		50.0	24.1		ug/l		48.2	1 - 150
Indeno (1,2,3-cd) pyrene	ND		50.0	55.7		ug/l		111	1 - 200
Isophorone	ND		50.0	49.6		ug/l		99.1	10 - 200
Naphthalene	ND		50.0	42.4		ug/l		84.9	10 - 150
Nitrobenzene	ND		50.0	46.2		ug/l		92.5	10 - 200
2-Nitrophenol	ND		50.0	53.1		ug/l		106	10 - 200
4-Nitrophenol	ND		50.0	58.2		ug/l		116	1 - 150
N-Nitrosodimethylamine	ND		50.0	44.6		ug/l		89.1	1 - 150
N-Nitrosodi-n-propylamine	ND		50.0	52.6		ug/l		105	1 - 250

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Lab Sample ID: 10H0771-MS1 — **Client Sample ID: PTH0568-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
N-Nitrosodiphenylamine	ND		50.0	40.6		ug/l		81.2	1 - 175
Pentachlorophenol	ND		50.0	62.8		ug/l		126	5 - 200
Phenanthrene	ND		50.0	55.3		ug/l		111	20 - 150
Phenol	ND		50.0	45.4		ug/l		90.8	1 - 150
Pyrene	ND		50.0	51.3		ug/l		103	20 - 150
1,2,4-Trichlorobenzene	ND		50.0	36.5		ug/l		72.9	1 - 150
2,4,6-Trichlorophenol	ND		50.0	52.9		ug/l		106	20 - 175
1,2 Diphenylhydrazine (as Azobenzene)	ND		50.0	52.4		ug/l		105	1 - 175

Surrogate	*Matrix Spike % Recovery*	*Matrix Spike Qualifier*	*Limits*
2-Fluorobiphenyl	*80.1*		*22 - 120*
2-Fluorophenol	*75.4*		*5 - 120*
Nitrobenzene-d5	*85.4*		*26 - 127*
Phenol-d6	*73.4*		*4 - 121*
p-Terphenyl-d14	*99.7*		*37 - 130*
2,4,6-Tribromophenol	*91.8*		*21 - 129*

Lab Sample ID: 10H0771-MSD1 — **Client Sample ID: PTH0568-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		50.0	36.8		ug/l		73.6	45 - 145	29.9	50
Acenaphthylene	ND		50.0	31.0		ug/l		61.9	20 - 150	29.8	50
Anthracene	ND		50.0	41.6		ug/l		83.1	20 - 150	22.4	50
Benzidine	ND		40.0	ND	L6	ug/l		24.2	1 - 150	2.15	50
Benzo (a) anthracene	ND		50.0	41.3		ug/l		82.5	20 - 150	21.7	50
Benzo (a) pyrene	ND		50.0	44.5		ug/l		88.9	10 - 175	18.9	50
Benzo (b) fluoranthene	ND		50.0	53.2		ug/l		106	10 - 175	11.1	50
Benzo (ghi) perylene	ND		50.0	41.9		ug/l		83.8	1 - 225	25.4	50
Benzo (k) fluoranthene	ND		50.0	41.2		ug/l		82.4	1 - 175	32.1	50
4-Bromophenyl phenyl ether	ND		50.0	38.5		ug/l		77.1	20 - 150	25.9	50
Butyl benzyl phthalate	ND		50.0	46.7		ug/l		93.4	1 - 175	19.6	50
4-Chloro-3-methylphenol	ND		50.0	46.6		ug/l		93.1	10 - 175	27.0	50
Bis(2-chloroethoxy)methane	ND		50.0	35.7		ug/l		71.4	10 - 200	31.1	50
Bis(2-chloroethyl)ether	ND		50.0	37.2		ug/l		74.4	1 - 175	34.9	50
Bis(2-chloroisopropyl)ether	ND		50.0	33.5		ug/l		66.9	10 - 175	29.5	50
2-Chloronaphthalene	ND		50.0	33.6		ug/l		67.3	20 - 150	33.3	50
2-Chlorophenol	ND		50.0	36.7		ug/l		73.4	10 - 150	34.4	50
4-Chlorophenyl phenyl ether	ND		50.0	41.9		ug/l		83.9	10 - 175	29.0	50
Chrysene	ND		50.0	41.6		ug/l		83.3	5 - 175	21.9	50
Di-n-butyl phthalate	ND		50.0	45.8		ug/l		91.7	1 - 150	18.4	50
Di-n-octyl phthalate	ND		50.0	55.4		ug/l		111	1 - 175	16.0	50
Dibenzo (a,h) anthracene	ND		50.0	44.2		ug/l		88.3	1 - 250	27.4	50
1,2-Dichlorobenzene	ND		50.0	22.2		ug/l		44.3	1 - 150	28.9	50
1,3-Dichlorobenzene	ND		50.0	19.3		ug/l		38.6	1 - 200	28.6	50
1,4-Dichlorobenzene	ND		50.0	19.9		ug/l		39.8	1 - 150	28.3	50
3,3´-Dichlorobenzidine	ND		40.0	23.2		ug/l		57.9	1 - 275	24.0	50
2,4-Dichlorophenol	ND		50.0	38.5		ug/l		76.9	10 - 150	33.5	50

Method: EPA 625 - Acid and Base/Neutral Extractables per EPA Method 625 (Continued)

Lab Sample ID: 10H0771-MSD1 — **Client Sample ID: PTH0568-01**
Matrix: Water — **Prep Type: total**
Analysis Batch: 10H0771 — **Prep Batch: 10H0771_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Diethyl phthalate	ND		50.0	43.4		ug/l		86.9	1 - 150	22.0	50
2,4-Dimethylphenol	ND		50.0	31.6		ug/l		63.3	5 - 150	32.0	50
Dimethyl phthalate	ND		50.0	41.3		ug/l		82.7	1 - 150	20.8	50
4,6-Dinitro-2-methylphenol	ND		50.0	48.3		ug/l		96.7	1 - 200	20.2	50
2,4-Dinitrophenol	ND		50.0	39.8		ug/l		79.6	1 - 200	16.7	50
2,4-Dinitrotoluene	ND		50.0	44.4		ug/l		88.9	20 - 150	23.6	50
2,6-Dinitrotoluene	ND		50.0	40.6		ug/l		81.3	20 - 175	23.4	50
Bis(2-ethylhexyl)phthalate	ND		50.0	45.8		ug/l		91.7	1 - 175	22.3	50
Fluoranthene	ND		50.0	45.8		ug/l		91.6	10 - 150	22.1	50
Fluorene	ND		50.0	40.2		ug/l		80.4	20 - 150	26.2	50
Hexachlorobenzene	ND		50.0	39.4		ug/l		78.9	1 - 175	25.2	50
Hexachlorobutadiene	ND		50.0	23.5		ug/l		47.1	1 - 150	32.5	50
Hexachlorocyclopentadiene	ND		50.0	17.3		ug/l		34.7	1 - 175	30.7	50
Hexachloroethane	ND		50.0	18.0		ug/l		36.0	1 - 150	28.9	50
Indeno (1,2,3-cd) pyrene	ND		50.0	43.0		ug/l		86.1	1 - 200	25.6	50
Isophorone	ND		50.0	36.2		ug/l		72.3	10 - 200	31.3	50
Naphthalene	ND		50.0	30.8		ug/l		61.6	10 - 150	31.8	50
Nitrobenzene	ND		50.0	35.2		ug/l		70.4	10 - 200	27.1	50
2-Nitrophenol	ND		50.0	38.7		ug/l		77.5	10 - 200	31.3	50
4-Nitrophenol	ND		50.0	49.0		ug/l		98.0	1 - 150	17.2	50
N-Nitrosodimethylamine	ND		50.0	25.0	R3	ug/l		49.9	1 - 150	56.4	50
N-Nitrosodi-n-propylamine	ND		50.0	39.4		ug/l		78.7	1 - 250	28.8	50
N-Nitrosodiphenylamine	ND		50.0	31.8		ug/l		63.6	1 - 175	24.3	50
Pentachlorophenol	ND		50.0	48.5		ug/l		97.0	5 - 200	25.7	50
Phenanthrene	ND		50.0	44.9		ug/l		89.8	20 - 150	20.8	50
Phenol	ND		50.0	32.8		ug/l		65.6	1 - 150	32.2	50
Pyrene	ND		50.0	42.4		ug/l		84.7	20 - 150	19.2	50
1,2,4-Trichlorobenzene	ND		50.0	26.3		ug/l		52.6	1 - 150	32.4	50
2,4,6-Trichlorophenol	ND		50.0	39.9		ug/l		79.7	20 - 175	28.1	50
1,2 Diphenylhydrazine (as Azobenzene)	ND		50.0	40.5		ug/l		80.9	1 - 175	25.8	50

Surrogate	*Matrix Spike Dup % Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
2-Fluorobiphenyl	*56.1*		*22 - 120*
2-Fluorophenol	*55.1*		*5 - 120*
Nitrobenzene-d5	*64.0*		*26 - 127*
Phenol-d6	*53.5*		*4 - 121*
p-Terphenyl-d14	*80.2*		*37 - 130*
2,4,6-Tribromophenol	*71.5*		*21 - 129*

Method: EPA 8270C - Semivolatile Organic Compounds per EPA Method 8270C

Lab Sample ID: 10H0994-BLK1 — **Client Sample ID: 10H0994-BLK1**
Matrix: Soil — **Prep Type: total**
Analysis Batch: 10H0994 — **Prep Batch: 10H0994_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2 Diphenylhydrazine (as Azobenzene)	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzidine	ND	L6	1.98		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1

Method: EPA 8270C - Semivolatile Organic Compounds per EPA Method 8270C (Continued)

Lab Sample ID: 10H0994-BLK1
Matrix: Soil
Analysis Batch: 10H0994

Client Sample ID: 10H0994-BLK1
Prep Type: total
Prep Batch: 10H0994_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		0.494		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Acenaphthene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Acenaphthylene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Anthracene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzo (a) anthracene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzo (a) pyrene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzo (b) fluoranthene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzo (ghi) perylene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzo (k) fluoranthene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzoic Acid	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Benzyl alcohol	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Bromophenyl phenyl ether	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Butyl benzyl phthalate	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Chloro-3-methylphenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Chloroaniline	ND		1.98		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Bis(2-chloroethoxy)methane	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Bis(2-chloroethyl)ether	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Bis(2-chloroisopropyl)ether	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Chloronaphthalene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Chlorophenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Chlorophenyl phenyl ether	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Chrysene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Di-n-butyl phthalate	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Di-n-octyl phthalate	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Dibenzo (a,h) anthracene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Dibenzofuran	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
1,2-Dichlorobenzene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
1,3-Dichlorobenzene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
1,4-Dichlorobenzene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
3,3´-Dichlorobenzidine	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4-Dichlorophenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Diethyl phthalate	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4-Dimethylphenol	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Dimethyl phthalate	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4,6-Dinitro-2-methylphenol	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4-Dinitrophenol	ND		1.98		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4-Dinitrotoluene	ND		0.494		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,6-Dinitrotoluene	ND		0.494		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Bis(2-ethylhexyl)phthalate	ND		1.98		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Fluoranthene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Fluorene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Hexachlorobenzene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Hexachlorobutadiene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Hexachlorocyclopentadiene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Hexachloroethane	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Indeno (1,2,3-cd) pyrene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Isophorone	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Methylnaphthalene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Methylphenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
3-,4-Methylphenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1

Method: EPA 8270C - Semivolatile Organic Compounds per EPA Method 8270C (Continued)

Lab Sample ID: 10H0994-BLK1
Matrix: Soil
Analysis Batch: 10H0994

Client Sample ID: 10H0994-BLK1
Prep Type: total
Prep Batch: 10H0994_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Nitroaniline	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
3-Nitroaniline	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Nitroaniline	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Nitrobenzene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2-Nitrophenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
4-Nitrophenol	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
N-Nitrosodi-n-propylamine	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
N-Nitrosodiphenylamine	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Pentachlorophenol	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Phenanthrene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Phenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
Pyrene	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
1,2,4-Trichlorobenzene	ND		0.988		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4,5-Trichlorophenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1
2,4,6-Trichlorophenol	ND		0.326		mg/kg wet		08/31/10 09:04	09/02/10 23:49	1

Surrogate	*Blank % Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93.7*		*30 - 126*	*08/31/10 09:04*	*09/02/10 23:49*	*1*
2-Fluorophenol	*95.0*		*28 - 119*	*08/31/10 09:04*	*09/02/10 23:49*	*1*
Nitrobenzene-d5	*91.7*		*26 - 117*	*08/31/10 09:04*	*09/02/10 23:49*	*1*
Phenol-d6	*101*		*35 - 125*	*08/31/10 09:04*	*09/02/10 23:49*	*1*
p-Terphenyl-d14	*108*		*26 - 143*	*08/31/10 09:04*	*09/02/10 23:49*	*1*
2,4,6-Tribromophenol	*105*		*30 - 127*	*08/31/10 09:04*	*09/02/10 23:49*	*1*

Lab Sample ID: 10H0994-BS1
Matrix: Soil
Analysis Batch: 10H0994

Client Sample ID: 10H0994-BS1
Prep Type: total
Prep Batch: 10H0994_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	1.66	1.73	MNR	mg/kg wet		104	46 - 120
4-Chloro-3-methylphenol	1.66	1.81	MNR	mg/kg wet		109	36 - 138
2-Chlorophenol	1.66	1.66	MNR	mg/kg wet		99.5	18 - 137
1,4-Dichlorobenzene	1.66	1.66	MNR	mg/kg wet		99.7	7 - 135
2,4-Dinitrotoluene	1.66	1.94	MNR	mg/kg wet		116	49 - 125
4-Nitrophenol	1.66	1.40	MNR	mg/kg wet		83.9	40 - 148
N-Nitrosodi-n-propylamine	1.66	1.78	MNR	mg/kg wet		107	20 - 138
Pentachlorophenol	1.66	1.86	MNR	mg/kg wet		112	22 - 129
Phenol	1.66	1.68	MNR	mg/kg wet		101	37 - 122
Pyrene	1.66	2.00	MNR	mg/kg wet		120	26 - 143
1,2,4-Trichlorobenzene	1.66	1.66	MNR	mg/kg wet		100	25 - 129

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*95.8*	*MNR*	*30 - 126*
2-Fluorophenol	*97.8*	*MNR*	*28 - 119*
Nitrobenzene-d5	*96.1*	*MNR*	*26 - 117*
Phenol-d6	*103*	*MNR*	*35 - 125*
p-Terphenyl-d14	*120*	*MNR*	*26 - 143*
2,4,6-Tribromophenol	*113*	*MNR*	*30 - 127*

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Lab Sample ID: 10H0698-DUP1 | **Client Sample ID: PTH0617-01**
Matrix: Soil | **Prep Type: total**
Analysis Batch: 10H0698 | **Prep Batch: 10H0698_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Solids	77.9			76.8		% by Weight				1.40	20

Lab Sample ID: 10H0698-DUP2 | **Client Sample ID: PTH0650-01**
Matrix: Soil | **Prep Type: total**
Analysis Batch: 10H0698 | **Prep Batch: 10H0698_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
% Solids	80.7			81.2		% by Weight				0.50	20
										8	

Certification Summary

Client: SGS North America, Inc.
Project/Site: 1104213

TestAmerica Job ID: PTH0652
SDG: PTH0652

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

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.

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Indiana
- Kentucky

www.us.sgs.com

PTH0652

(1)

CLIENT: SGS-AK

CONTACT: ANNIE ADKINS PHONE NO: 907 562 2343

PROJECT NAME: KLI-506.01 PROJECT/ PWSID/ PERMIT#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1104213

SGS Reference #: TEST AMERICA - OR

page 1 of 1

(2)

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used	—	—								REMARKS/ LOC ID
							Analysis Required (3)	SVOC 625 (SEE ATTACHED LIST)	SVOC 8270								
	INFLUENT	8/17/10	0800	WS	2	G	✓										1104213001
	EFFLUENT	8/17/10	0800	WS	2	G	✓										1104213002
	SLUDGE	8/17/10	0955	SL	1	G		✓									1104213005

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Janet Taylor	8/19/10	1100	Megan Hemmings 08/20/10 0910
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

DOD Project? YES NO

Cooler ID _____

Data Deliverable Requirements: LEVEL II (DATA + QC) + EDD

Requested Turnaround Time and-or Special Instructions:

Temperature Blank °C: 1.6° or Ambient [ ]
(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT
(See attached Sample Receipt Form)

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PTH0652 Date/Time Received: 08/20/10 0910

Client Name and Project: SGS-AK KLI-506101

Time Zone:
☐EDT/EST ☐CDT/CST ☐MDT/MST ☐PDT/PST ☒AK ☐OTHER

Unpacking Checks:

Cooler #(s): 1

Temperatures: 1.6

Digi #1	Digi #2	IR Gun
☐	☒ 2.2	☒ (☐Plastic ☒Glass)

Temperature out of Range:

__Not enough or No Ice
__Ice Melted
__W/in 4 Hrs of collection
__Other:

Initials: [illegible]

N/A	Yes	No	
☐	☒	☐	1. If ESI client, were temp blanks received? If no, document on NOD.
☐	☒	☐	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
	☒	☐	3. Chain of Custody present? If no, document on NOD.
	☒	☐	4. Bottles received intact? If no, document on NOD.
	☒	☐	5. Sample is not multiphasic? If no, document on NOD.
	☒	☐	6. Proper Container and preservatives used? If no, document on NOD.
☒	☐	☐	7. pH of all samples checked and meet requirements? If no, document on NOD.
☒	☐	☐	8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
☒	☐	☐	9. HF Dilution required?
	☒	☐	10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
	☒	☐	11. Did chain of custody agree with samples received? If no, document on NOD.
	☐	☒	12. Is the "Sampled by" section of the COC completed?
☒	☐	☐	13. Were VOA/Oil Syringe samples without headspace?
☒	☐	☐	14. Were VOA vials preserved? ☐HCl ☐Sodium Thiosulfate ☐Ascorbic Acid
	☐	☒	15. Did samples require preservation with sodium thiosulfate?
☒	☐	☐	16. If yes to #15, was the residual chlorine test negative? If no, document on NOD.
☒	☐	☐	17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
☒	☐	☐	18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
☒	☐	☐	19. Are analyses with short holding times received in hold?
	☒	☐	20. Was Standard Turn Around (TAT) requested?
	☐	☒	21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

Samples are unpr.

-01 samples are unpreserved
-02 sample are preserved with ascorbic acid

08/17

TestAmerica Portland

Sample Receiving Checklist

Work Order #: PTH0652

Login Checks:

Initials: [illegible]

N/A	Yes	No	
	☑	☐	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
☑	☐	☐	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.
	☑	☐	24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?
☐	☑	☐	25. Were special log in instructions read and followed?
	☑	☐	26. Were tests logged checked against the COC?
☑	☐	☐	27. Were rush notices printed and delivered?
☑	☐	☐	28. Were short hold notices printed and delivered?
☑	☐	☐	29. Were subcontract COCs printed?
☑	☐	☐	30. Was HF dilution logged?

Labeling and Storage Checks:

Initials: [illegible]

N/A	Yes	No	
☑	☐	☐	31. Were the subcontracted samples/containers put in Sx fridge?
☑	☐	☐	32. Were sample bottles and COC double checked for dissolved/filtered metals?
	☑	☐	33. Did the sample ID, Date, and Time from label match what was logged?
☑	☐	☐	34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge?
☑	☐	☐	35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
☑	☐	☐	36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

ANALYTICAL REPORT

Job Number: 280-6830-1

Job Description: SGS AK - P.O. 1104213

For:
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518

Attention: Mr. Forest Taylor

Approved for release.
Betsy A Sara
Project Manager II
9/14/2010 8:34 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
09/14/2010

cc: Ms. Callianne Adkins

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

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

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CASE NARRATIVE

Client: SGS Environmental Services, Inc.

Project: SGS AK - P.O. 1104213

Report Number: 280-6830-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The sample was received on 08/27/2010; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.2 C.

Holding Times

The holding time was met.

Method Blanks

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Methylene Chloride Method 8260B were detected in method blank at levels that were above the method detection limits but below the reporting limits. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Please refer to the QC report for details.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 8260B due to laboratory error, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Organics

The Method 8260B surrogate recovery of Toluene-d8 and 4-Bromofluorobenzene were above control limits in the analysis of sample MOA10VOP038. Because the chromatograms exhibited clear evidence of matrix interference and all other quality control samples met acceptance criteria, corrective action was deemed unnecessary.

The Method 8260B internal standard response was outside of acceptance limits low for 1,4-Dichlorobenzene-d4 for the sample MOA10VOP038. The sample exhibited evidence of matrix interference. The sample was reanalyzed with similar results, therefore confirming matrix interference.

EXECUTIVE SUMMARY - Detections

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6830-1	**MOA10VOP038**					
Chloroform		0.96	J	10	ug/Kg	8260B
Ethylbenzene		5.5		5.0	ug/Kg	8260B
Methylene Chloride		6.5	B	5.0	ug/Kg	8260B
Tetrachloroethylene		5.2		5.0	ug/Kg	8260B
Toluene		130		5.0	ug/Kg	8260B
Trichlorofluoromethane		1.3	J	10	ug/Kg	8260B
Xylenes, Total		30		5.0	ug/Kg	8260B
1,2,4-Trichlorobenzene		7.2	B	5.0	ug/Kg	8260B
1,2,3-Trichlorobenzene		6.2	B	5.0	ug/Kg	8260B
1,4-Dichlorobenzene		17		5.0	ug/Kg	8260B
Acetone		68		20	ug/Kg	8260B

METHOD SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

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

METHOD / ANALYST SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR

SAMPLE SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-6830-1	MOA10VOP038	Solid	08/17/2010 0955	08/27/2010 1805

SAMPLE RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Client Sample ID: **MOA10VOP038**

Lab Sample ID: 280-6830-1 Date Sampled: 08/17/2010 0955
Client Matrix: Solid Date Received: 08/27/2010 1805

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-29722	Instrument ID:	MSV_J
Preparation:	5030B		Lab File ID:	J0613.D
Dilution:	1.0		Initial Weight/Volume:	5 g
Date Analyzed:	08/31/2010 1453		Final Weight/Volume:	5 mL
Date Prepared:	08/31/2010 1453			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acrolein		ND		20	100
Acrylonitrile		ND		4.8	100
trans-1-2-Dichloroethylene		ND		0.39	2.5
Benzene		ND		0.47	5.0
Bromodichloromethane		ND		0.22	5.0
Bromoform		ND		0.23	5.0
Bromomethane		ND		0.50	10
Carbon tetrachloride		ND		0.63	5.0
Chlorobenzene		ND		0.54	5.0
Dibromochloromethane		ND		0.57	5.0
Chloroethane		ND		0.89	10
Chloroform		0.96	J	0.29	10
2-Chloroethyl vinyl ether		ND		5.0	50
Chloromethane		ND		0.77	10
Dichlorodifluoromethane		ND		0.52	10
Ethylbenzene		5.5		0.67	5.0
Methylene Chloride		6.5	B	0.75	5.0
Tetrachloroethylene		5.2		0.59	5.0
Toluene		130		0.69	5.0
Trichloroethylene		ND		0.23	5.0
Trichlorofluoromethane		1.3	J	1.0	10
Vinyl chloride		ND		1.3	5.0
1,1-Dichloroethane		ND		0.21	5.0
1,1-Dichloroethylene		ND		0.59	5.0
1,1,1-Trichloroethane		ND		0.52	5.0
1,1,2-Trichloroethane		ND		0.88	5.0
1,1,2,2-Tetrachloroethane		ND		0.61	5.0
1,2-Dichloroethane		ND		0.70	5.0
1,2-Dichloropropane		ND		0.55	5.0
1,3-Dichloropropene, Total		ND		0.67	5.0
1,3-Dichlorobenzene		ND		0.48	5.0
cis-1,2-Dichloroethene		ND		0.56	2.5
cis-1,3-Dichloropropene		ND		1.3	5.0
Xylenes, Total		30		0.61	5.0
trans-1,3-Dichloropropene		ND		0.67	5.0
1,2,4-Trichlorobenzene		7.2	B	0.73	5.0
1,2,3-Trichlorobenzene		6.2	B	0.75	5.0
1,2-Dichlorobenzene		ND		0.45	5.0
1,4-Dichlorobenzene		17		0.78	5.0
Chlorobromomethane		ND		0.30	5.0
Dibromomethane		ND		0.84	5.0
Acetone		68		5.4	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	77		58 - 140
Toluene-d8 (Surr)	130	X	80 - 126

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Client Sample ID: **MOA10VOP038**

Lab Sample ID: 280-6830-1 Date Sampled: 08/17/2010 0955
Client Matrix: Solid Date Received: 08/27/2010 1805

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-29722	Instrument ID:	MSV_J
Preparation:	5030B		Lab File ID:	J0613.D
Dilution:	1.0		Initial Weight/Volume:	5 g
Date Analyzed:	08/31/2010 1453		Final Weight/Volume:	5 mL
Date Prepared:	08/31/2010 1453			

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	4357	E X	76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

DATA REPORTING QUALIFIERS

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits

QUALITY CONTROL RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-28780					
LCS 280-28780/33-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-28780/34-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-28780/1-A	Method Blank	T	Solid	5030B	
Analysis Batch:280-29722					
LCS 280-28780/33-A	Lab Control Sample	T	Solid	8260B	280-28780
LCSD 280-28780/34-A	Lab Control Sample Duplicate	T	Solid	8260B	280-28780
MB 280-28780/1-A	Method Blank	T	Solid	8260B	280-28780
280-6830-1	MOA10VOP038	T	Solid	8260B	

Report Basis

T = Total

Client: SGS Environmental Services, Inc.

Job Number: 280-6830-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
280-6830-1	MOA10VOP038	77	130X	4357E X	92
MB 280-28780/1-A		92	102	107	97
LCS 280-28780/33-A		96	111	104	96
LCSD 280-28780/34-A		91	114	102	97

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	58-140
TOL = Toluene-d8 (Surr)	80-126
BFB = 4-Bromofluorobenzene (Surr)	76-127
DBFM = Dibromofluoromethane (Surr)	75-121

Client: SGS Environmental Services, Inc.

Job Number: 280-6830-1

Method Blank - Batch: 280-28780

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-28780/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/31/2010 1430
Date Prepared: 08/31/2010 1430

Analysis Batch: 280-29722
Prep Batch: 280-28780
Units: ug/Kg

Instrument ID: MSV_J
Lab File ID: J0612.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acrolein	ND		20	100
Acrylonitrile	ND		4.8	100
trans-1-2-Dichloroethylene	ND		0.39	2.5
Benzene	ND		0.47	5.0
Bromodichloromethane	ND		0.22	5.0
Bromoform	ND		0.23	5.0
Bromomethane	ND		0.50	10
Carbon tetrachloride	ND		0.63	5.0
Chlorobenzene	ND		0.54	5.0
Dibromochloromethane	ND		0.57	5.0
Chloroethane	ND		0.90	10
Chloroform	ND		0.29	10
2-Chloroethyl vinyl ether	ND		5.0	50
Chloromethane	ND		0.77	10
Dichlorodifluoromethane	ND		0.52	10
Ethylbenzene	ND		0.67	5.0
Methylene Chloride	1.81	J	0.75	5.0
Tetrachloroethylene	ND		0.59	5.0
Toluene	ND		0.69	5.0
Trichloroethylene	ND		0.23	5.0
Trichlorofluoromethane	ND		1.0	10
Vinyl chloride	ND		1.3	5.0
1,1-Dichloroethane	ND		0.21	5.0
1,1-Dichloroethylene	ND		0.59	5.0
1,1,1-Trichloroethane	ND		0.52	5.0
1,1,2-Trichloroethane	ND		0.88	5.0
1,1,2,2-Tetrachloroethane	ND		0.61	5.0
1,2-Dichloroethane	ND		0.70	5.0
1,2-Dichloropropane	ND		0.55	5.0
1,3-Dichloropropene, Total	ND		0.67	5.0
1,3-Dichlorobenzene	ND		0.48	5.0
cis-1,2-Dichloroethene	ND		0.56	2.5
cis-1,3-Dichloropropene	ND		1.3	5.0
Xylenes, Total	ND		0.61	5.0
trans-1,3-Dichloropropene	ND		0.67	5.0
1,2,4-Trichlorobenzene	0.984	J	0.73	5.0
1,2,3-Trichlorobenzene	1.24	J	0.75	5.0
1,2-Dichlorobenzene	ND		0.45	5.0
1,4-Dichlorobenzene	ND		0.78	5.0
Chlorobromomethane	ND		0.30	5.0
Dibromomethane	ND		0.84	5.0
Acetone	ND		5.4	20

Client: SGS Environmental Services, Inc. Job Number: 280-6830-1

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	58 - 140
Toluene-d8 (Surr)	102	80 - 126
4-Bromofluorobenzene (Surr)	107	76 - 127
Dibromofluoromethane (Surr)	97	75 - 121

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-28780

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-28780/33-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/31/2010 1323
Date Prepared: 08/31/2010 1323

Analysis Batch: 280-29722
Prep Batch: 280-28780
Units: ug/Kg

Instrument ID: MSV_J
Lab File ID: J0609.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-28780/34-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/31/2010 1345
Date Prepared: 08/31/2010 1345

Analysis Batch: 280-29722
Prep Batch: 280-28780
Units: ug/Kg

Instrument ID: MSV_J
Lab File ID: J0610.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
trans-1-2-Dichloroethylene	99	99	80 - 127	0.4	20		
Benzene	98	98	76 - 120	0.3	20		
Bromodichloromethane	99	96	74 - 125	3	20		
Carbon tetrachloride	107	104	69 - 147	2	20		
Chlorobenzene	102	100	74 - 120	2	20		
Chloroform	101	99	77 - 125	1	20		
2-Chloroethyl vinyl ether	104	101	48 - 144	2	26		
Ethylbenzene	104	96	78 - 120	8	20		
Methylene Chloride	93	93	76 - 120	0.3	21		
Tetrachloroethylene	106	101	71 - 120	4	20		
Toluene	99	98	72 - 120	0.9	20		
Trichloroethylene	100	98	78 - 120	2	20		
1,1-Dichloroethane	98	96	74 - 120	2	20		
1,1-Dichloroethylene	101	99	77 - 143	2	20		
1,1,1-Trichloroethane	103	100	67 - 143	3	20		
1,2-Dichloropropane	99	97	74 - 120	2	20		
1,3-Dichlorobenzene	100	104	74 - 120	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	91	58 - 140
Toluene-d8 (Surr)	111	114	80 - 126
4-Bromofluorobenzene (Surr)	104	102	76 - 127
Dibromofluoromethane (Surr)	96	97	75 - 121

SGS

1.2°C
8-27-10
12

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

CLIENT: SGS AK
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: Kinnetics SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 1104213

SGS Reference #: TestAmerica CO.

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C= COMP G= GRAB / MI= Multi incremental Soils	8260 w/ 624 compounds - see attached									REMARKS/ LOC ID
	M0A10V0P038	8-17-10	0955	soil	1	G	X									1104213005(I)

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	8/26/10	1130	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 8/27/10	Time 1000	Received For Laboratory By:

DOD Project? YES NO
Cooler ID
Special Deliverable Requirements: Level 4 ERPIMS w/ special EDD
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C:
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

F016_SGS_COC_electronic(v06/01/2010)

Login Sample Receipt Check List

Client: SGS Environmental Services, Inc.

Job Number: 280-6830-1

Login Number: 6830

List Source: TestAmerica Denver

Creator: Paulsen, Lindsay T

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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?	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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 280-6575-1

Job Description: SGS AK - P.O. 1104213

For:
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518

Attention: Mr. Forest Taylor

Approved for release.
Betsy A Sara
Project Manager II
12/2/2010 3:05 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
12/02/2010
Revision: 2

cc: Ms. Callianne Adkins

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

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CASE NARRATIVE

Client: SGS Environmental Services, Inc.

Project: SGS AK - P.O. 1104213

Report Number: 280-6575-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving

The samples were received on 08/20/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.5 C.

Holding Times

The holding times were met.

Method Blanks

Methylene Chloride Method 624 was detected in the Method Blank below the project established reporting limit. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blank recoveries were within established control limits.

Laboratory Control Samples (LCS)

The Laboratory Control Samples were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 624 due to laboratory error, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Report Revision

This submission was revised to include Acetone per the client's request on 12/2/2010.

EXECUTIVE SUMMARY - Detections

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-6575-2	**MOA10VOP037**					
Chloroform		34		5.0	ug/L	624
Dichlorobromomethane		3.6	J	5.0	ug/L	624
Methylene Chloride		5.6	B	5.0	ug/L	624
280-6575-3	**INF CMP#1-8**					
1,4-Dichlorobenzene		0.78	J	5.0	ug/L	624
Acetone		220		20	ug/L	624
Chloroform		2.0	J	5.0	ug/L	624
Methylene Chloride		15	B	5.0	ug/L	624
Toluene		5.3		5.0	ug/L	624
Xylenes, Total		8.6	J	10	ug/L	624
280-6575-4	**EFF CMP#1-8**					
1,4-Dichlorobenzene		0.67	J	5.0	ug/L	624
Acetone		180		20	ug/L	624
Chloroform		3.0	J	5.0	ug/L	624
Methylene Chloride		7.2	B	5.0	ug/L	624
Toluene		6.3		5.0	ug/L	624
Xylenes, Total		5.7	J	10	ug/L	624

METHOD SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	40CFR136A 624	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

METHOD / ANALYST SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Method	Analyst	Analyst ID
40CFR136A 624	Jackson, Todd D	TDJ

SAMPLE SUMMARY

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-6575-1	MOA10VOP036	Water	08/17/2010 0820	08/20/2010 0930
280-6575-2	MOA10VOP037	WQ	08/17/2010 0000	08/20/2010 0930
280-6575-3	INF CMP#1-8	Water	08/17/2010 0600	08/20/2010 0930
280-6575-4	EFF CMP#1-8	Water	08/17/2010 0600	08/20/2010 0930

SAMPLE RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Client Sample ID: **MOA10VOP036**

Lab Sample ID: 280-6575-1 Date Sampled: 08/17/2010 0820
Client Matrix: Water Date Received: 08/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-29268	Instrument ID:	MSV_R2
Preparation:	N/A		Lab File ID:	RR9077.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/28/2010 0157		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	ND		0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	ND		3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	ND		1.1	5.0
Chloromethane	ND		0.89	10
Dichlorobromomethane	ND		1.5	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	ND		2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	ND		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10
Xylenes, Total	ND		1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		73 - 122
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	91		79 - 119

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Client Sample ID: **MOA10VOP037**

Lab Sample ID: 280-6575-2 Date Sampled: 08/17/2010 0000
Client Matrix: WQ Date Received: 08/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-29268	Instrument ID:	MSV_R2
Preparation:	N/A		Lab File ID:	RR9078.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/28/2010 0221		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	ND		0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	ND		3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	34		1.1	5.0
Chloromethane	ND		0.89	10
Dichlorobromomethane	3.6	J	1.5	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	5.6	B	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	ND		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10
Xylenes, Total	ND		1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		73 - 122
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	93		79 - 119

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Client Sample ID: **INF CMP#1-8**

Lab Sample ID: 280-6575-3 Date Sampled: 08/17/2010 0600
Client Matrix: Water Date Received: 08/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-29268	Instrument ID:	MSV_R2
Preparation:	N/A		Lab File ID:	RR9079.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/28/2010 0244		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	0.78	J	0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	220		3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	2.0	J	1.1	5.0
Chloromethane	ND		0.89	10
Dichlorobromomethane	ND		1.5	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	15	B	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	5.3		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10
Xylenes, Total	8.6	J	1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		73 - 122
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	92		79 - 119

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Client Sample ID: **EFF CMP#1-8**

Lab Sample ID: 280-6575-4 Date Sampled: 08/17/2010 0600
Client Matrix: Water Date Received: 08/20/2010 0930

624 Volatile Organic Compounds (GC/MS)

Method:	624	Analysis Batch: 280-29268	Instrument ID:	MSV_R2
Preparation:	N/A		Lab File ID:	RR9080.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/28/2010 0307		Final Weight/Volume:	5 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	0.67	J	0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	180		3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	3.0	J	1.1	5.0
Chloromethane	ND		0.89	10
Dichlorobromomethane	ND		1.5	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	7.2	B	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	6.3		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10
Xylenes, Total	5.7	J	1.1	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		73 - 122
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	96		79 - 119

DATA REPORTING QUALIFIERS

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: SGS Environmental Services, Inc. Job Number: 280-6575-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-29268					
LCS 280-29268/33	Lab Control Sample	T	Water	624	
LCSD 280-29268/8	Lab Control Sample Duplicate	T	Water	624	
MB 280-29268/9	Method Blank	T	Water	624	
280-6575-1	MOA10VOP036	T	Water	624	
280-6575-2	MOA10VOP037	T	Water	624	
280-6575-3	INF CMP#1-8	T	Water	624	
280-6575-4	EFF CMP#1-8	T	Water	624	

Report Basis
T = Total

Client: SGS Environmental Services, Inc.

Job Number: 280-6575-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
280-6575-1	MOA10VOP036	103	95	91
280-6575-2	MOA10VOP037	100	95	93
280-6575-3	INF CMP#1-8	101	94	92
280-6575-4	EFF CMP#1-8	101	94	96
MB 280-29268/9		95	98	91
LCS 280-29268/33		96	94	98
LCSD 280-29268/8		96	97	97

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	73-122
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	79-119

Client: SGS Environmental Services, Inc.

Job Number: 280-6575-1

Method Blank - Batch: 280-29268

Method: 624
Preparation: N/A

Lab Sample ID: MB 280-29268/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2010 2024
Date Prepared: N/A

Analysis Batch: 280-29268
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_R2
Lab File ID: RR9063.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		1.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.2	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1-Dichloroethane	ND		1.5	5.0
1,1-Dichloroethene	ND		2.4	5.0
1,2-Dichlorobenzene	ND		1.3	5.0
1,2-Dichloroethane	ND		1.3	5.0
1,2-Dichloropropane	ND		1.9	5.0
1,3-Dichlorobenzene	ND		1.6	5.0
1,3-Dichloropropene, Total	ND		2.0	5.0
1,4-Dichlorobenzene	ND		0.56	5.0
2-Chloroethyl vinyl ether	ND		1.9	5.0
Acetone	ND		3.4	20
Acrolein	ND		15	100
Acrylonitrile	ND		17	100
Benzene	ND		1.8	5.0
Bromoform	ND		0.48	5.0
Bromomethane	ND		1.5	10
Carbon tetrachloride	ND		1.8	5.0
Chlorobenzene	ND		2.3	5.0
Chlorodibromomethane	ND		2.2	5.0
Chloroethane	ND		2.0	10
Chloroform	ND		1.1	5.0
Chloromethane	ND		0.89	10
Dichlorobromomethane	ND		1.5	5.0
Ethylbenzene	ND		2.2	5.0
Methylene Chloride	3.27	J	2.0	5.0
Tetrachloroethene	ND		2.7	5.0
Toluene	ND		2.2	5.0
trans-1,2-Dichloroethene	ND		1.7	5.0
Trichloroethene	ND		0.95	5.0
Vinyl chloride	ND		1.3	10
Xylenes, Total	ND		1.1	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	73 - 122
Toluene-d8 (Surr)	98	80 - 120
4-Bromofluorobenzene (Surr)	91	79 - 119

Client: SGS Environmental Services, Inc.

Job Number: 280-6575-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-29268

Method: 624
Preparation: N/A

LCS Lab Sample ID: LCS 280-29268/33
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2010 1937
Date Prepared: N/A

Analysis Batch: 280-29268
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_R2
Lab File ID: RR9061L.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-29268/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/27/2010 2001
Date Prepared: N/A

Analysis Batch: 280-29268
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_R2
Lab File ID: RR9062.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	92	97	52 - 162	6	30		
1,1,2,2-Tetrachloroethane	99	97	46 - 157	2	30		
1,1,2-Trichloroethane	98	96	52 - 150	3	30		
1,1-Dichloroethane	97	101	59 - 155	4	30		
1,1-Dichloroethene	100	122	10 - 234	20	30		
1,2-Dichlorobenzene	101	103	18 - 190	2	30		
1,2-Dichloroethane	99	96	49 - 155	3	30		
1,2-Dichloropropane	100	100	10 - 210	1	30		
1,3-Dichlorobenzene	102	103	59 - 156	0	30		
1,3-Dichloropropene, Total	97	93	17 - 183	4	30		
1,4-Dichlorobenzene	100	103	18 - 190	2	30		
2-Chloroethyl vinyl ether	95	93	10 - 305	1	45		
Acetone	91	96	42 - 170	5	20		
Acrolein	97	106	38 - 188	10	30		
Acrylonitrile	101	104	48 - 149	3	30		
Benzene	96	100	37 - 151	4	30		
Bromoform	98	97	45 - 169	1	30		
Bromomethane	100	120	10 - 242	18	30		
Carbon tetrachloride	94	97	70 - 140	3	30		
Chlorobenzene	99	100	37 - 160	1	30		
Chlorodibromomethane	96	95	53 - 149	0	30		
Chloroethane	104	126	14 - 230	19	30		
Chloroform	95	103	51 - 138	8	30		
Chloromethane	89	102	10 - 273	13	30		
Dichlorobromomethane	100	99	35 - 155	1	30		
Ethylbenzene	100	100	37 - 162	0	30		
Methylene Chloride	99	109	10 - 221	9	30		
Tetrachloroethene	98	99	64 - 148	1	30		
Toluene	95	97	47 - 150	2	30		
trans-1,2-Dichloroethene	99	106	54 - 156	7	30		
Trichloroethene	99	99	71 - 157	0	30		
Vinyl chloride	95	107	10 - 251	11	30		
Xylenes, Total	99	103	50 - 150	4	30		

Client: SGS Environmental Services, Inc.

Job Number: 280-6575-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	96	73 - 122
Toluene-d8 (Surr)	94	97	80 - 120
4-Bromofluorobenzene (Surr)	98	97	79 - 119

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Ohio, West Virgina
www.us.sgs.com

CLIENT: **SGS AK**
CONTACT: Annie Adkins PHONE NO: 907-562-2343
PROJECT: Kinnetic labs. SITE/PWSID#:
REPORTS TO: E-MAIL: callianne.adkins@sgs.com
INVOICE TO: P.O. #: 1104213

SGS Reference #: Test America, CO.
page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	Preserv Used / SAMPLE TYPE C= COMP G= GRAB / MI= Multi Incremental Soils	EPA 624 See attached for analytes								REMARKS/ LOC ID
	MOA10VOPG336	8/17/10	0820	water	3	G	X								1104213006
	MOA10VOP037	8/17/10	Trip Blank			G	X								1104213007
	INF CMP #1-8	8/17/10	0600			G/C	X	syringe composite					& 8	samples	1104213026
	EFF CMP #1-8	8/17/10	0600			G/C	X	syringe composite					& 8	samples	1104213027

Collected/Relinquished By: (1)	Date	Time	Received By:
Annie Adkins	8-19-10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	8-20-10	0930	Received For Laboratory By:

DOD Project? YES NO
Cooler ID
Special Deliverable Requirements:
Requested Turnaround Time and-or Special Instructions:
Temperature Blank °C:
See attached Sample Receipt Form
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT (See attached Sample Receipt Form)

200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

F016_SGS_COC_electronic(v06/01/2010)

Login Sample Receipt Check List

Client: SGS Environmental Services, Inc.

Job Number: 280-6575-1

Login Number: 6575

List Source: TestAmerica Denver

Creator: Harrington, Nicholas

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
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?	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	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Forest Taylor
SGS Environmental
200 W. Potter Dr.
Anchorage, AK 99518

Report Number: G552-684

Client Project:

Dear Forest Taylor,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Barbara Hager at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America, Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager 30-Aug-10

Project Manager
Barbara Hager

Date

Case Narrative
Paradigm Project: **G552-684**
Project Name: **NA**

For Methods: 8280A/8290

- The submitted samples were accepted into the lab on August 20th, 2010 and extracted on August 26th, 2010 by method 3520C and 3540C. The sample extracts and associated QC extracts were then processed through clean-up as prescribed in the SGS standard operating procedures and analyzed by HRGC/HRMS for method 8290.

- The LMB associated with WG18364 contains what appears to be low level contamination from the associated spiked QC samples. The level is well below the lower calibration limit and does not affect the sample.

- According to the COC, the samples were logged for LRGC/LRMS method 8280A. The samples were analyzed by HRGC/HRMS and processed against method 8290 criteria which meets all 8280A limits.

Tamara Morgan 8-30-10

Tamara Morgan Date
Data Validation

List of Qualifiers: Dioxins

B Analyte was detected in the Lab Method Blank at a level above the Reporting Limit and the concentration in the associated sample is ≤ 10 times the LMB concentration.

EDL "Estimated Detection Limit"

EMPC "Estimated Maximum Possible Concentration"

RL Report Limit

CL Control Limit

U Undetected

ppt Parts-per-trillion (pg/g; ng/L)

V Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit.

Outside quality control limits

* Indicates that the ion-ratio fails high or low; analyte reported as an EMPC

An average uncertainty of 30% can be routinely achieved as concluded from the evaluation of HRGC-HRMS standard operating procedures. The following flags warn the data user of situations where the uncertainty may be greater than stated.

A Amount detected is less than the Lower Method Calibration Limit.

J Amount detected is between the Method Detection Limit and the Lower Calibration Limit.

O The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high.

E Amount detected is greater than the Upper Calibration Limit.

S The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s).

Q Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s).

I Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s).

DPE Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s).

Method 8280
Influent
SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount ng/L	EDL ng/L	EMPC ng/L	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.000941				

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standard						
13C12-2,3,7,8-TCDD	2	1.81	90.6	31.6	0.8	
Cleanup Standard						
37Cl4-2,3,7,8-TCDD	0.4	0.358	89.5	31.6	-	
Injection Standard						
13C12-1,2,3,4-TCDD	2.0	-	-	31.1	0.8	

Client Information			**Sample Information**		
Project Name:			Report Basis:	Wet	
			Matrix:	Water	
Sample ID:	Influent		Weight / Volume:	916	mL
			Solids / Lipids:	NA	%
			Original pH :	7.00	
Laboratory Information			Batch ID:	WG18364	
Project ID:	G552-684		Instrument:	HRMS3	
Sample ID:	G552-684-1C		Filename:	c28aug10a_2-8	
Collection Date/Time:	08/17/10	8:00	Retchk:	c28aug10a-13	
Receipt Date/Time:	08/20/10	10:00	Begin ConCal:	c28aug10a-13	
Extraction Date:	08/26/10		End ConCal:		
Analysis Date/Time:	08/29/10	5:23	Initial Cal:	m8290-081910c	

Form Version:[8290]TCDD

Analyzed by: J.L.J.
Date: 8/30/10

Reviewed by: DM
Date: 8-30-10

Method 8280
Effluent
SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount ng/L	EDL ng/L	EMPC ng/L	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.000704				

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standard						
13C12-2,3,7,8-TCDD	2	1.90	94.8	31.6	0.8	
Cleanup Standard						
37Cl4-2,3,7,8-TCDD	0.4	0.371	92.8	31.6	-	
Injection Standard						
13C12-1,2,3,4-TCDD	2.0	-	-	31.1	0.8	

Client Information			**Sample Information**		
Project Name:			Report Basis:	Wet	
			Matrix:	Water	
Sample ID:	Effluent		Weight / Volume:	934	mL
			Solids / Lipids:	NA	%
			Original pH :	8.00	
Laboratory Information			Batch ID:	WG18364	
Project ID:	G552-684		Instrument:	HRMS3	
Sample ID:	G552-684-2C		Filename:	c28aug10a_2-9	
Collection Date/Time:	08/17/10	8:00	Retchk:	c28aug10a-13	
Receipt Date/Time:	08/20/10	10:00	Begin ConCal:	c28aug10a-13	
Extraction Date:	08/26/10		End ConCal:		
Analysis Date/Time:	08/29/10	6:13	Initial Cal:	m8290-081910c	

Form Version:[8290]TCDD

Analyzed by: _____
Date: 8/30/10

Reviewed by: _____
Date: 8-30-10

Method 8280
Sludge
SGS Environmental

Analytical Data Summary Sheet

Analyte	Amount pg/g	EDL pg/g	EMPC pg/g	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.147				

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standard						
13C12-2,3,7,8-TCDD	2	2.02	101	31.6	0.8	
Cleanup Standard						
37Cl4-2,3,7,8-TCDD	0.4	0.397	99.4	31.6	-	
Injection Standard						
13C12-1,2,3,4-TCDD	2.0	-	-	31.1	0.8	

Client Information			**Sample Information**		
Project Name:			Report Basis:	Dry	
			Matrix:	Sludge	
Sample ID:	Sludge		Weight / Volume:	10.77	g
			Solids / Lipids:	31.4	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG18363	
Project ID:	G552-684		Instrument:	HRMS3	
Sample ID:	G552-684-3C		Filename:	c28aug10a_2-10	
Collection Date/Time:	08/17/10	9:55	Retchk:	c28aug10a-13	
Receipt Date/Time:	08/20/10	10:00	Begin ConCal:	c28aug10a-13	
Extraction Date:	08/26/10		End ConCal:		
Analysis Date/Time:	08/29/10	7:04	Initial Cal:	m8290-081910c	

Form Version:[8290]TCDD

Analyzed by: [illegible]
Date: 8/30/10

Reviewed by: [illegible]
Date: 8-30-10

Method 8280

Lab Method Blank

Analytical Data Summary Sheet

Analyte	Amount pg/g	EDL pg/g	EMPC pg/g	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	EMPC	0.0514	0.154	31.60	0.61 *	A

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standard						
13C12-2,3,7,8-TCDD	2	1.68	84.0	31.6	0.8	
Cleanup Standard						
37Cl4-2,3,7,8-TCDD	0.4	0.354	88.6	31.6	-	
Injection Standard						
13C12-1,2,3,4-TCDD	2.0	-	-	31.1	0.8	

Client Information			**Sample Information**		
Project Name:			Report Basis:	Wet	
			Matrix:	Soil	
Sample ID:	Lab Method Blank		Weight / Volume:	10.00	g
			Solids / Lipids:	NA	%
			Original pH :	NA	
Laboratory Information			Batch ID:	WG18363	
Project ID:			Instrument:	HRMS3	
Sample ID:			Filename:	c28aug10a_2-7	
Collection Date/Time:			Retchk:	c28aug10a-13	
Receipt Date/Time:			Begin ConCal:	c28aug10a-13	
Extraction Date:	08/26/10		End ConCal:		
Analysis Date/Time:	08/29/10	4:32	Initial Cal:	m8290-081910c	

Form Version:[8290]TCDD

Analyzed by: [illegible]
Date: 8/30/10

Reviewed by: TM
Date: 8-30-10

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked (pg/µL)	AMT (pg/µL)	REC %	Range % Lower	Range % Upper	Qualifier
2,3,7,8-TCDD	10	9.25	92.5	70.0	130	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	OPR18363
Extraction Date:	26-Aug-10
Analysis Date:	29-Aug-10
Method:	8280

File Information

OPR Filename:	c28aug10a_2-5
Retchk:	c28aug10a-13
Begin ConCal:	c28aug10a-13
End ConCal:	
Initial Cal:	m8290-081910c

Sample Information

Matrix:	Soil

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	2	1.79	89.5	31.57	0.80	
Cleanup Standards						
37Cl4-2,3,7,8-TCDD	0.4	0.367	91.8	31.59	-	
Injection Standards						
13C12-1,2,3,4-TCDD	2	-	-	31.13	0.81	

QC Information

OPR Project No: OPR18363
Extraction Date: 26-Aug-10
Analysis Date: 29-Aug-10
Method: 8280

Sample Information

Matrix: Soil

File Information

OPR Filename : c28aug10a_2-5
Retchk: c28aug10a-13
Begin ConCal: c28aug10a-13
End ConCal:
Initial Cal: m8290-081910c

Form Version:[8290]OPR

Reviewed By: _____ Date Reviewed: _____

Analytical Results
for
Ongoing Precision & Recovery Duplicate Results (OPRD)

Analyte	Spiked (pg/µL)	AMT (pg/µL)	Recovery %	#	Range Lower	Range Upper	OPR Rec(%)	#	RPD (±20%)	Qualifier
2,3,7,8-TCDD	10.0	9.69	96.9		70.0	130	92.5		4.49	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	OPRD18363
Extraction Date:	26-Aug-10
Analysis Date:	29-Aug-10
Method:	8280

Sample Information

Matrix:	Soil

File Information

OPRD Filename :	c28aug10a_2-6
Retchk:	c28aug10a-13
Begin ConCal:	c28aug10a-13
End ConCal:	
Initial Cal:	m8290-081910c

Analytical Results
for
Ongoing Precision & Recovery Duplicate Results (OPRD)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards			(40-135%)			
13C12-2,3,7,8-TCDD	2	1.81	90.3	31.57	0.79	
Cleanup Standards			(70-130%)			
37Cl4-2,3,7,8-TCDD	0.4	0.369	92.3	31.59	-	
Injection Standards						
13C12-1,2,3,4-TCDD	2	-	-	31.13	0.80	

QC Information

OPR Project No: OPRD18363
Extraction Date: 26-Aug-10
Analysis Date: 29-Aug-10
Method: 8280

Sample Information

Matrix: Soil

File Information

OPRD Filename : c28aug10a_2-6
Retchk: c28aug10a-13
Begin ConCal: c28aug10a-13
End ConCal:
Initial Cal: m8290-081910c

Form Version:[8290]OPRD

Reviewed By: TM

Date Reviewed: 8-30-10

Method 8280
Lab Method Blank

Analytical Data Summary Sheet

Analyte	Amount ng/L	EDL ng/L	EMPC ng/L	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.000412				

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standard						
13C12-2,3,7,8-TCDD	2	1.88	94.0	31.6	0.8	
Cleanup Standard						
37Cl4-2,3,7,8-TCDD	0.4	0.379	94.7	31.6	-	
Injection Standard						
13C12-1,2,3,4-TCDD	2.0	-	-	31.1	0.8	

Client Information			**Sample Information**		
Project Name:			Report Basis:	Wet	
			Matrix:	Water	
Sample ID:	Lab Method Blank		Weight / Volume:	1000	mL
			Solids / Lipids:	NA	%
			Original pH :	5.00	
Laboratory Information			Batch ID:	WG18364	
Project ID:			Instrument:	HRMS3	
Sample ID:			Filename:	c28aug10a_2-4	
Collection Date/Time:			Retchk:	c28aug10a-13	
Receipt Date/Time:			Begin ConCal:	c28aug10a-13	
Extraction Date:	08/26/10		End ConCal:		
Analysis Date/Time:	08/29/10	2:01	Initial Cal:	m8290-081910c	

Form Version:[8290]TCDD

Analyzed by: J.G.
Date: 8/30/10

Reviewed by: TM
Date: 8-30-10

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked (pg/µL)	AMT (pg/µL)	REC %	Range % Lower	Range % Upper	Qualifier
2,3,7,8-TCDD	10	8.72	87.2	70.0	130	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	OPR18364
Extraction Date:	26-Aug-10
Analysis Date:	29-Aug-10
Method:	8280

File Information

OPR Filename:	c28aug10a_2-2
Retchk:	c28aug10a-13
Begin ConCal:	c28aug10a-13
End ConCal:	
Initial Cal:	m8290-081910c

Sample Information

Matrix:	Water

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
13C12-2,3,7,8-TCDD	2	1.83	91.5	31.57	0.80	
Cleanup Standards						
37Cl4-2,3,7,8-TCDD	0.4	0.366	91.5	31.59	-	
Injection Standards						
13C12-1,2,3,4-TCDD	2	-	-	31.11	0.81	

QC Information

OPR Project No: OPR18364
Extraction Date: 26-Aug-10
Analysis Date: 29-Aug-10
Method: 8280

Sample Information

Matrix: Water

File Information

OPR Filename : c28aug10a_2-2
Retchk: c28aug10a-13
Begin ConCal: c28aug10a-13
End ConCal:
Initial Cal: m8290-081910c

Form Version:[8290]OPR

Reviewed By: TM

Date Reviewed: 8-30-10

Analytical Results
for
Ongoing Precision & Recovery Duplicate Results (OPRD)

Analyte	Spiked (pg/µL)	AMT (pg/µL)	Recovery %	#	Range Lower	Range Upper	OPR Rec(%)	#	RPD (±20%)	Qualifier
2,3,7,8-TCDD	10.0	9.54	95.4		70.0	130	87.2		8.59	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	OPRD18364
Extraction Date:	26-Aug-10
Analysis Date:	29-Aug-10
Method:	8280

Sample Information

Matrix:	Water

File Information

OPRD Filename :	c28aug10a_2-3
Retchk:	c28aug10a-13
Begin ConCal:	c28aug10a-13
End ConCal:	
Initial Cal:	m8290-081910c

Analytical Results
for
Ongoing Precision & Recovery Duplicate Results (OPRD)

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards			(40-135%)			
13C12-2,3,7,8-TCDD	2	1.87	93.6	31.57	0.80	
Cleanup Standards			(70-130%)			
37Cl4-2,3,7,8-TCDD	0.4	0.395	98.7	31.59	-	
Injection Standards						
13C12-1,2,3,4-TCDD	2	-	-	31.13	0.81	

QC Information

OPR Project No: OPRD18364
Extraction Date: 26-Aug-10
Analysis Date: 29-Aug-10
Method: 8280

Sample Information

Matrix: Water

File Information

OPRD Filename : c28aug10a_2-3
Retchk: c28aug10a-13
Begin ConCal: c28aug10a-13
End ConCal:
Initial Cal: m8290-081910c

Form Version:[8290]OPRD

Reviewed By: TM

Date Reviewed: 8-30-10

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Indiana
- Kentucky

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(1)

CLIENT: SGS-AK

CONTACT: ANNIE ATKINS PHONE NO: 907 562 2343

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1104213

SGS Reference #: SGS-NC G552-684

page 1 of 1

(2)

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Analysis Required (3) 2,3,7,8-TCDD 8280									REMARKS/ LOC ID
						Preservatives Used	—	•								
✓	INFLUENT ✓	8/17/10	0800	WS	2	G	✓									1104213001
✓	EFFLUENT ✓	8/17/10	0800	WS	2	G	✓									1104213002
✓	SLUDGE ✓	8/17/09	0955	SL	2	G	✓									1104213005

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	8/19/10	1100	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 8/20/10	Time 1000	Received For Laboratory By: [signature]

(4)

DOD Project? YES NO

Cooler ID _____

Data Deliverable Requirements: LEVEL II (DATA+QC) +EDD

Requested Turnaround Time and-or Special Instructions:

Due 8/30/10 8/20/10

Temperature Blank °C: 5.2°C

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms and conditions.htm

White - Retained by Lab
Pink - Retained by Client

Columbia Analytical Services™ 1317 S. 13th Avenue, Kelso, WA 98626 | 360.577.7222 | 360.636.1068 (fax) | www.caslab.com

November 5, 2010 Analytical Report for Service Request No: K1008971

Forest Taylor
SGS Environmental Services, Inc.
200 W. Potter Drive
Anchorage, AK 99518-1605

Dear Forest:

Enclosed are the results of the samples submitted to our laboratory on August 20, 2010. For your reference, these analyses have been assigned our service request number K1008971.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3364. You may also contact me via Email at HHolmes@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Howard Holmes
Project Chemist

HH/jb

100% Recycled Paper

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	SGS Environmental	**Service Request No.:**	K1008971
Project:	Shannon & Wilson	**Date Received:**	8/20/10
Sample Matrix:	Water & Sludge		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Two water & one sludge sample were received for analysis at Columbia Analytical Services on 8/20/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Organochlorine Pesticides by EPA Method 8081A

Calibration Verification Exceptions:
The analysis of Chlorinated Pesticides by EPA 8081 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Endrin Ketone and Decachlorobiphenyl in CCV 0916F004. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recovery of 4,4'-DDT for sample Sludge was not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Lab Control Sample Exceptions:
The spike recoveries of Toxaphene and Chlordane for the Laboratory Control Sample (LCS) associated with the water samples Influent and Effluent were not reported because a LCS with these analytes was not prepared with this extraction batch. The analytes in question were not detected in the associated field samples. Additional analysis of the associated field samples were not performed because insufficient sample remained for testing.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for 4,4'-DDT was exceeded in samples Influent and Effluent. The lower of the two values was reported when no evidence of a matrix interference was observed.

Approved by _____ **Date** 11-5-10

Elevated Detection Limits:
The detection limit was elevated for a few analytes in all samples. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the normal limit. The results were flagged to indicate the matrix interference.
The detection limit was elevated for all analytes in samples Influent and Effluent. The chromatogram indicated the presence of non-target background components. The samples were diluted in order to achieve optimal resolution of the target analytes and internal standard. The results were flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

Elevated Detection Limits:
The detection limit was elevated for at least one Aroclor in a couple samples. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the normal limit. The results were flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

Organophosphorus Pesticides by EPA Method 8141

Sample Notes and Discussion:
EPA 8141 criteria were applied to both the water & sludge samples.

Calibration Verification Exceptions:
The upper control criterion was exceeded for Demeton-O, Demeton-S, Methyl Parathion, Malathion, and Ethyl Parathion in Continuing Calibration Verification (CCV) 0930F014. The field samples analyzed in this sequence did not contain the analytes in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

The control criteria were exceeded for Azinphos-methyl (Guthion) in closing CCV 0930F014. The samples were analyzed multiple times, causing similar breakdown of the analyte in question. The opening CCV met control criteria. No further corrective action was possible.

Surrogate Exceptions:
The upper control criterion was exceeded for Tributyl Phosphate in samples Influent, EffluentMS, and EffluentDMS. No target analytes were detected in the field samples. The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:
The matrix spike recovery of Ethyl Parathion for sample EffluentDMS was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

Calibration Verification Exceptions:
The analysis of Organophosphrous Pesticides by EPA 8141 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Azinphos-methyl (Guthion) in CCV 1004F002. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

No other anomalies associated with the analysis of these samples were observed.

Approved by Howard Holmes **Date** 11-5-10

Chain of Custody

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- North Carolina
- West Virginia
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- New York
- Indiana
- Kentucky

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(1)

CLIENT: SGS-AK

CONTACT: ANNIE ADKINS PHONE NO: 907 562 2343

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1104213

SGS Reference #: CAS-KEISO

page 1 of 1

(2)

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	EPA 1608 (SEE LIST) 8081	414 (SEE LIST) 8141A (SEE LIST)	CN						REMARKS/ LOC ID
Preservatives Used							—	—	—	—	—				
Analysis Required (3)															
	INFLUENT	8/17/10	0800	WS	4	G	✓	✓							1104213001
	EFFLUENT	8/17/10	0800	WS	4	G	✓	✓							1104213002
	EFFLUENT (MS)	8/17/10	0800	WS	1	G	✓	✓				(MS)			1104213003
	EFFLUENT (MSD)	8/17/10	0800	WS	1	G	✓	[redacted]				(MSD)			1104213004
	SLUDGE	8/17/10	0955	SL	3	G		✓		✓	✓				1104213005

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Janet Taylor	8/19/10	1115	5/20/10 1000 Kathie Smith CAS
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

DOD Project? YES (NO)

Cooler ID _____

Data Deliverable Requirements: LEVEL II (DATA + QC) + EDD

Requested Turnaround Time and-or Special Instructions:

Temperature Blank °C: _____

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: SGS Service Request K10 08971

Received: 8/20/10 Opened: 8/20/10 By: VB

. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*

. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*

. Were custody seals on coolers? NA Y N If yes, how many and where? 2, Front and Back

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
.1C	2.9C	2606		1ZA8619W0157423701	

. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____

. Were custody papers properly filled out (ink, signed, etc.)? NA Y N

. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N

0. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N

1. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N

2. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N

3. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N

4. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N

5. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Page 1 *of* _____

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Sludge, solid

Total Solids

Prep Method: NONE **Units:** PERCENT
Analysis Method: 160.3M **Basis:** Wet
Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
Sludge	K1008971-003	08/17/2010	08/20/2010	08/25/2010	30.5	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Sludge, solid	**Date Received:**	08/20/2010
		Date Analyzed:	08/25/2010

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sludge	K1008971-003	30.5	31.2	30.9	2	

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : SGS Environmental Services, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : SLUDGE, SOLID

Service Request : K1008971
Date Collected : 08/17/10
Date Received : 08/20/10

Cyanide, Total

Prep Method : Method
Analysis Method : 9012A
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
Sludge	K1008971-003	0.68	1	8/24/2010	08/26/10	ND	
Method Blank	K1008971-MB	0.68	1	8/24/2010	08/26/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K1008971
Project Name :	NA	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SLUDGE, SOLID	**Date Prepared :**	08/24/10
		Date Analyzed :	08/26/10

Duplicate Summary
Inorganic Parameters

Sample Name :	Batch QC	Units :	mg/Kg
Lab Code :	K1008685-016DUP	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A	0.27	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : SGS Environmental Services, Inc.
Project Name : NA
Project Number : NA
Sample Matrix : SLUDGE, SOLID

Service Request : K1008971
Date Collected : NA
Date Received : NA
Date Prepared : 08/24/10
Date Analyzed : 08/26/10

Matrix Spike Summary
Inorganic Parameters

Sample Name : Batch QC
Lab Code : K1008685-016MS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Cyanide, Total	Method	9012A	0.27	2.74	ND	1.70	62	10-167	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K1008971
Project Name :	NA	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SEDIMENT	**Date Prepared :**	08/24/10
		Date Analyzed :	08/26/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K1008971-LCS	Basis :	Dry
Test Notes :			

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Cyanide, Total	Method	9012A	26.3	24.9	95	80-109	

Organochlorine Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Organochlorine Pesticides

Sample Name:	Influent	**Units:**	ug/L
Lab Code:	K1008971-001	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Heptachlor	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Aldrin	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Heptachlor Epoxide	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
gamma-Chlordane†	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Endosulfan I	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
alpha-Chlordane	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Dieldrin	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDE	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Endrin	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Endosulfan II	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDD	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Endrin Aldehyde	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Endosulfan Sulfate	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDT	**0.074**	PD	0.054	5	08/24/10	09/17/10	KWG1009596	
Endrin Ketone	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Methoxychlor	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	
Toxaphene	ND	Ui	3.3	5	08/24/10	09/17/10	KWG1009596	
Chlordane	ND	U	1.1	5	08/24/10	09/17/10	KWG1009596	
Mirex	ND	U	0.054	5	08/24/10	09/17/10	KWG1009596	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	71	20-102	09/17/10	Acceptable
Decachlorobiphenyl	81	35-128	09/17/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Organochlorine Pesticides

Sample Name:	Effluent	**Units:**	ug/L
Lab Code:	K1008971-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Heptachlor	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Aldrin	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Heptachlor Epoxide	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
gamma-Chlordane†	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Endosulfan I	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
alpha-Chlordane	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Dieldrin	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDE	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Endrin	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Endosulfan II	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDD	ND	Ui	0.054	5	08/24/10	09/17/10	KWG1009596	
Endrin Aldehyde	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Endosulfan Sulfate	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
4,4'-DDT	**0.094**	PD	0.053	5	08/24/10	09/17/10	KWG1009596	
Endrin Ketone	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Methoxychlor	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	
Toxaphene	ND	U	2.7	5	08/24/10	09/17/10	KWG1009596	
Chlordane	ND	U	1.1	5	08/24/10	09/17/10	KWG1009596	
Mirex	ND	U	0.053	5	08/24/10	09/17/10	KWG1009596	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	80	20-102	09/17/10	Acceptable
Decachlorobiphenyl	87	35-128	09/17/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1009596-9	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Heptachlor	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Aldrin	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Heptachlor Epoxide	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
gamma-Chlordane†	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endosulfan I	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
alpha-Chlordane	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Dieldrin	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
4,4'-DDE	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endrin	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endosulfan II	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
4,4'-DDD	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endrin Aldehyde	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endosulfan Sulfate	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
4,4'-DDT	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Endrin Ketone	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Methoxychlor	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	
Toxaphene	ND	U	0.50	1	08/24/10	09/17/10	KWG1009596	
Chlordane	ND	U	0.20	1	08/24/10	09/17/10	KWG1009596	
Mirex	ND	U	0.010	1	08/24/10	09/17/10	KWG1009596	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	52	20-102	09/17/10	Acceptable
Decachlorobiphenyl	69	35-128	09/17/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Sludge, solid	**Date Received:**	08/20/2010

Organochlorine Pesticides

Sample Name:	Sludge	**Units:**	ug/Kg
Lab Code:	K1008971-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Heptachlor	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Aldrin	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Heptachlor Epoxide	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
gamma-Chlordane†	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Endosulfan I	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
alpha-Chlordane	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Dieldrin	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDE	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Endrin	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Endosulfan II	ND	Ui	20	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDD	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Endrin Aldehyde	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Endosulfan Sulfate	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDT	**270**		8.1	1	08/30/10	09/08/10	KWG1009249	
Endrin Ketone	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Methoxychlor	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	
Toxaphene	ND	Ui	1000	1	08/30/10	09/08/10	KWG1009249	
Chlordane	ND	U	170	1	08/30/10	09/08/10	KWG1009249	
Mirex	ND	U	8.1	1	08/30/10	09/08/10	KWG1009249	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	61	21-112	09/08/10	Acceptable
Decachlorobiphenyl	96	15-130	09/08/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, solid	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG1009249-8	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Heptachlor	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Aldrin	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Heptachlor Epoxide	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
gamma-Chlordane†	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endosulfan I	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
alpha-Chlordane	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Dieldrin	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDE	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endrin	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endosulfan II	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDD	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endrin Aldehyde	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endosulfan Sulfate	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
4,4'-DDT	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Endrin Ketone	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Methoxychlor	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	
Toxaphene	ND	U	130	1	08/30/10	09/08/10	KWG1009249	
Chlordane	ND	U	49	1	08/30/10	09/08/10	KWG1009249	
Mirex	ND	U	2.5	1	08/30/10	09/08/10	KWG1009249	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	67	21-112	09/08/10	Acceptable
Decachlorobiphenyl	93	15-130	09/08/10	Acceptable

† Analyte Comments

gamma-Chlordane	For this analyte (CAS Registry No. 5103-74-2), USEPA has corrected the name to be beta-Chlordane, also known as trans-Chlordane.

Comments:

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A **Units:** PERCENT
Analysis Method: 8081A **Level:** Low

Sample Name	Lab Code	Sur1	Sur2
Influent	K1008971-001	71 D	81 D
Effluent	K1008971-002	80 D	87 D
Method Blank	KWG1009596-9	52	69
EffluentMS	KWG1009596-1	81 D	90 D
EffluentDMS	KWG1009596-2	81 D	81 D
Lab Control Sample	KWG1009596-5	59	79
Lab Control Sample	KWG1009596-6	56	76
Duplicate Lab Control Sample	KWG1009596-7	58	83

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	20-102
Sur2 =	Decachlorobiphenyl	35-128

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Sludge, solid

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3541 **Units:** PERCENT
Analysis Method: 8081A **Level:** Low

Sample Name	Lab Code	Sur1	Sur2
Sludge	K1008971-003	61	96
Method Blank	KWG1009249-8	67	93
SludgeMS	KWG1009249-1	50	108
SludgeDMS	KWG1009249-2	61	123
Lab Control Sample	KWG1009249-3	59	85
Lab Control Sample	KWG1009249-4	61	94
Duplicate Lab Control Sample	KWG1009249-5	66	94
Lab Control Sample	KWG1009249-6	68	93
Duplicate Lab Control Sample	KWG1009249-7	63	90

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	21-112
Sur2 =	Decachlorobiphenyl	15-130

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/17/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name:	Effluent	**Units:**	ug/L
Lab Code:	K1008971-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8081A	**Extraction Lot:**	KWG1009596

		EffluentMS KWG1009596-1 Matrix Spike			EffluentDMS KWG1009596-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
gamma-BHC (Lindane)	ND	0.188	0.211	89	0.167	0.213	78	31-123	12	30
Heptachlor	ND	0.164	0.211	78	0.163	0.213	77	23-124	1	30
Aldrin	ND	0.159	0.211	75	0.157	0.213	74	18-111	1	30
Heptachlor Epoxide	ND	0.153	0.211	72	0.157	0.213	74	28-122	3	30
gamma-Chlordane	ND	0.150	0.211	71	0.162	0.213	76	35-119	8	30
Endosulfan I	ND	0.111	0.211	53	0.117	0.213	55	17-118	5	30
alpha-Chlordane	ND	0.155	0.211	74	0.148	0.213	70	34-120	4	30
Dieldrin	ND	0.185	0.211	88	0.191	0.213	90	32-121	4	30
4,4'-DDE	ND	0.151	0.211	71	0.146	0.213	69	24-129	3	30
Endrin	ND	0.158	0.211	75	0.163	0.213	76	34-133	3	30
Endosulfan II	ND	0.162	0.211	77	0.162	0.213	76	19-122	0	30
4,4'-DDD	ND	0.140	0.211	67 #	0.131	0.213	62 #	29-125	6	30
Endrin Aldehyde	ND	0.0845	0.211	40	0.0837	0.213	39	10-108	1	30
Endosulfan Sulfate	ND	0.195	0.211	93	0.176	0.213	83	30-120	10	30
4,4'-DDT	0.094	0.181	0.211	41	0.170	0.213	36	28-139	6	30
Endrin Ketone	ND	0.166	0.211	79	0.164	0.213	77	34-113	2	30
Methoxychlor	ND	0.177	0.211	84	0.183	0.213	86	30-137	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/30/2010
Sample Matrix:	Sludge, solid	**Date Analyzed:**	09/08/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name:	Sludge	**Units:**	ug/Kg
Lab Code:	K1008971-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A	**Extraction Lot:**	KWG1009249

		SludgeMS KWG1009249-1 Matrix Spike			SludgeDMS KWG1009249-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
gamma-BHC (Lindane)	ND	83.3	160	52	101	164	62	26-135	19	40
Heptachlor	ND	78.0	160	49	88.3	164	54	11-136	12	40
Aldrin	ND	48.2	160	30	55.6	164	34	22-135	14	40
Heptachlor Epoxide	ND	101	160	63	118	164	72	25-129	16	40
gamma-Chlordane	ND	99.2	160	62	119	164	72	24-133	18	40
Endosulfan I	ND	65.6	160	41	78.0	164	48	15-119	17	40
alpha-Chlordane	ND	86.5	160	54	122	164	75	24-132	34	40
Dieldrin	ND	97.8	160	61	117	164	71	26-133	18	40
4,4'-DDE	ND	106	160	66	116	164	71	22-142	9	40
Endrin	ND	97.2	160	61	106	164	65	22-145	9	40
Endosulfan II	ND	95.6	160	60 #	111	164	68 #	13-129	15	40
4,4'-DDD	ND	101	160	63	117	164	71	19-143	14	40
Endrin Aldehyde	ND	43.4	160	27	58.2	164	36	10-129	29	40
Endosulfan Sulfate	ND	112	160	70	126	164	77	20-134	12	40
4,4'-DDT	270	147	160	-78 *	178	164	-57 *	19-154	19	40
Endrin Ketone	ND	118	160	74	138	164	84	19-139	15	40
Methoxychlor	ND	191	160	119	213	164	130	24-151	11	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/17/2010

Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3535A	**Units:**	ug/L
Analysis Method:	8081A	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1009596

	Lab Control Sample KWG1009596-5 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
gamma-BHC (Lindane)	0.160	0.200	80	44-117
Heptachlor	0.151	0.200	76	40-115
Aldrin	0.147	0.200	74	10-102
Heptachlor Epoxide	0.163	0.200	82	49-109
gamma-Chlordane	0.161	0.200	80	47-113
Endosulfan I	0.119	0.200	60	35-115
alpha-Chlordane	0.165	0.200	82	45-115
Dieldrin	0.166	0.200	83	50-115
4,4'-DDE	0.167	0.200	83	41-116
Endrin	0.160	0.200	80	48-126
Endosulfan II	0.134	0.200	67	28-128
4,4'-DDD	0.169	0.200	85	33-132
Endrin Aldehyde	0.137	0.200	68	27-104
Endosulfan Sulfate	0.172	0.200	86	38-118
4,4'-DDT	0.186	0.200	93	42-143
Endrin Ketone	0.173	0.200	87	30-124
Methoxychlor	0.192	0.200	96	43-143

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/17/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3535A	**Units:**	ug/L
Analysis Method:	8081A	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1009596

	Lab Control Sample KWG1009596-6 Lab Control Spike			Duplicate Lab Control Sample KWG1009596-7 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Mirex	0.141	0.200	71	0.151	0.200	76	43-126	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/30/2010
Sample Matrix:	Sludge, solid	**Date Analyzed:**	09/08/2010

Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1009249

	Lab Control Sample KWG1009249-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
gamma-BHC (Lindane)	73.8	100	74	40-142
Heptachlor	69.9	100	70	39-135
Aldrin	70.8	100	71	37-134
Heptachlor Epoxide	75.5	100	76	45-118
gamma-Chlordane	74.9	100	75	41-135
Endosulfan I	47.4	100	47	35-121
alpha-Chlordane	75.6	100	76	41-134
Dieldrin	76.8	100	77	46-136
4,4'-DDE	81.8	100	82	46-141
Endrin	70.7	100	71	40-152
Endosulfan II	59.0	100	59	39-128
4,4'-DDD	80.1	100	80	46-146
Endrin Aldehyde	72.6	100	73	32-132
Endosulfan Sulfate	82.1	100	82	43-138
4,4'-DDT	84.9	100	85	46-151
Endrin Ketone	94.0	100	94	47-135
Methoxychlor	86.5	100	87	42-147

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Sludge, solid

Service Request: K1008971
Date Extracted: 08/30/2010
Date Analyzed: 09/08/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3541
Analysis Method: 8081A

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1009249

	Lab Control Sample KWG1009249-4 Lab Control Spike			Duplicate Lab Control Sample KWG1009249-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Toxaphene	931	1000	93	1120	1000	112	53-133	19	40
Chlordane	876	1000	88	840	1000	84	52-140	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/30/2010
Sample Matrix:	Sludge, solid	**Date Analyzed:**	09/08/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method:	EPA 3541	**Units:**	ug/Kg
Analysis Method:	8081A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1009249

	Lab Control Sample KWG1009249-6 Lab Control Spike			Duplicate Lab Control Sample KWG1009249-7 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Mirex	92.2	100	92	87.8	100	88	38-123	5	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Polychlorinated Biphenyls

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	Influent	**Units:**	ug/L
Lab Code:	K1008971-001	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1221	ND	U	0.43	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1232	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1242	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1248	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1254	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	
Aroclor 1260	ND	U	0.22	1	08/24/10	09/17/10	KWG1009597	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	107	36-113	09/17/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	Effluent	**Units:**	ug/L
Lab Code:	K1008971-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	Ui	0.27	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1221	ND	U	0.43	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1232	ND	Ui	0.33	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1242	ND	Ui	0.33	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1248	ND	U	0.22	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1254	ND	U	0.22	1	08/24/10	09/11/10	KWG1009597	
Aroclor 1260	ND	U	0.22	1	08/24/10	09/11/10	KWG1009597	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	104	36-113	09/11/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1009597-4	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1221	ND	U	0.40	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1232	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1242	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1248	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1254	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	
Aroclor 1260	ND	U	0.20	1	08/24/10	09/10/10	KWG1009597	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	36-113	09/10/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Sludge, solid	**Date Received:**	08/20/2010

Polychlorinated Biphenyls (PCBs)

Sample Name:	Sludge	**Units:**	mg/Kg
Lab Code:	K1008971-003	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.17	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1221	ND	U	0.33	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1232	ND	Ui	0.46	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1242	ND	U	0.17	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1248	ND	U	0.17	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1254	ND	U	0.17	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1260	ND	U	0.17	1	08/30/10	09/07/10	KWG1009250	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	88	35-133	09/07/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, solid	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1009250-3	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1221	ND	U	0.098	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1232	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1242	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1248	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1254	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	
Aroclor 1260	ND	U	0.049	1	08/30/10	09/07/10	KWG1009250	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	87	35-133	09/07/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535A **Units:** PERCENT
Analysis Method: 8082 **Level:** Low

Sample Name	Lab Code	Sur1
Influent	K1008971-001	107
Effluent	K1008971-002	104
Method Blank	KWG1009597-4	77
InfluentMS	KWG1009597-1	82
InfluentDMS	KWG1009597-2	81
Lab Control Sample	KWG1009597-3	81

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 36-113

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Sludge, solid

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541 **Units:** PERCENT
Analysis Method: 8082 **Level:** Low

Sample Name	Lab Code	Sur1
Sludge	K1008971-003	88
Method Blank	KWG1009250-3	87
Lab Control Sample	KWG1009250-1	85
Duplicate Lab Control Sample	KWG1009250-2	89

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/17/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Influent	**Units:**	ug/L
Lab Code:	K1008971-001	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG1009597

		InfluentMS KWG1009597-1 Matrix Spike			InfluentDMS KWG1009597-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	1.63	2.11	77	1.90	2.11	90	31-118	15	30
Aroclor 1260	ND	1.47	2.11	70	1.64	2.11	78	47-115	11	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/10/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3535A	**Units:**	ug/L
Analysis Method:	8082	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1009597

	Lab Control Sample KWG1009597-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Aroclor 1016	1.69	2.00	84	41-113
Aroclor 1260	1.54	2.00	77	47-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/30/2010
Sample Matrix:	Sludge, solid	**Date Analyzed:**	09/07/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3541	**Units:**	mg/Kg
Analysis Method:	8082	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1009250

	Lab Control Sample KWG1009250-1 Lab Control Spike			Duplicate Lab Control Sample KWG1009250-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.860	1.00	86	0.840	1.00	84	48-121	2	40
Aroclor 1260	0.816	1.00	82	0.839	1.00	84	53-129	3	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organophosphorus Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Organophosphorus Pesticides

Sample Name:	Influent	**Units:**	ug/L
Lab Code:	K1008971-001	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.2	1	08/24/10	09/30/10	KWG1009240	
Methyl Parathion	ND	U	0.54	1	08/24/10	09/30/10	KWG1009240	
Malathion	ND	U	0.22	1	08/24/10	09/30/10	KWG1009240	
Ethyl Parathion	ND	U	0.54	1	08/24/10	09/30/10	KWG1009240	
Azinphos-methyl (Guthion)	ND	U	1.1	1	08/24/10	09/30/10	KWG1009240	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	168	43-148	09/30/10	Outside Control Limits
Triphenyl Phosphate	110	48-142	09/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Water	**Date Received:**	08/20/2010

Organophosphorus Pesticides

Sample Name:	Effluent	**Units:**	ug/L
Lab Code:	K1008971-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.2	1	08/24/10	09/30/10	KWG1009240	
Methyl Parathion	ND	U	0.54	1	08/24/10	09/30/10	KWG1009240	
Malathion	ND	U	0.22	1	08/24/10	09/30/10	KWG1009240	
Ethyl Parathion	ND	U	0.54	1	08/24/10	09/30/10	KWG1009240	
Azinphos-methyl (Guthion)	ND	U	1.1	1	08/24/10	09/30/10	KWG1009240	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	146	43-148	09/30/10	Acceptable
Triphenyl Phosphate	103	48-142	09/30/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1009240-4	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	2.0	1	08/24/10	09/30/10	KWG1009240	
Methyl Parathion	ND	U	0.50	1	08/24/10	09/30/10	KWG1009240	
Malathion	ND	U	0.20	1	08/24/10	09/30/10	KWG1009240	
Ethyl Parathion	ND	U	0.50	1	08/24/10	09/30/10	KWG1009240	
Azinphos-methyl (Guthion)	ND	U	1.0	1	08/24/10	09/30/10	KWG1009240	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	87	43-148	09/30/10	Acceptable
Triphenyl Phosphate	88	48-142	09/30/10	Acceptable

Comments:

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Water

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A **Units:** PERCENT
Analysis Method: 8141A **Level:** Low

Sample Name	Lab Code	Sur1		Sur2
Influent	K1008971-001	168	*	110
Effluent	K1008971-002	146		103
Method Blank	KWG1009240-4	87		88
EffluentMS	KWG1009240-1	152	*	113
EffluentDMS	KWG1009240-2	201	*	138
Lab Control Sample	KWG1009240-3	118		130

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	43-148
Sur2 =	Triphenyl Phosphate	48-142

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Extracted:**	08/24/2010
Sample Matrix:	Water	**Date Analyzed:**	09/30/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organophosphorus Pesticides

Sample Name:	Effluent	**Units:**	ug/L
Lab Code:	K1008971-002	**Basis:**	NA
Extraction Method:	EPA 3535A	**Level:**	Low
Analysis Method:	8141A	**Extraction Lot:**	KWG1009240

		EffluentMS KWG1009240-1 Matrix Spike			EffluentDMS KWG1009240-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	ND	1.98	2.11	94	2.53	2.15	118	10-130	25	30
Methyl Parathion	ND	2.40	2.11	114	2.88	2.15	134	41-160	18	30
Malathion	ND	2.29	2.11	109	2.96	2.15	138	34-146	26	30
Ethyl Parathion	ND	2.56	2.11	121	3.17	2.15	147 *	39-140	21	30
Azinphos-methyl (Guthion)	ND	1.43	2.11	68	1.38	2.15	64	31-179	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Water

Service Request: K1008971
Date Extracted: 08/24/2010
Date Analyzed: 09/30/2010

Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8141A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1009240

	Lab Control Sample KWG1009240-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Demeton-O,S	1.37	2.00	68	10-130
Methyl Parathion	2.37	2.00	119	41-160
Malathion	2.45	2.00	123	34-146
Ethyl Parathion	2.46	2.00	123	39-140
Azinphos-methyl (Guthion)	2.73	2.00	136	31-179

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Organophosphorus Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	08/17/2010
Sample Matrix:	Sludge, solid	**Date Received:**	08/20/2010

Organophosphorus Pesticides

Sample Name:	Sludge	**Units:**	mg/Kg
Lab Code:	K1008971-003	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	1.3	1	08/30/10	10/04/10	KWG1009247	
Methyl Parathion	ND	U	0.66	1	08/30/10	10/04/10	KWG1009247	
Malathion	ND	U	0.66	1	08/30/10	10/04/10	KWG1009247	
Ethyl Parathion	ND	U	0.66	1	08/30/10	10/04/10	KWG1009247	
Azinphos-methyl (Guthion)	ND	U	0.66	1	08/30/10	10/04/10	KWG1009247	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	105	38-158	10/04/10	Acceptable
Triphenyl Phosphate	82	35-163	10/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K1008971
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, solid	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1009247-4	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.099	1	08/30/10	10/04/10	KWG1009247	
Methyl Parathion	ND	U	0.050	1	08/30/10	10/04/10	KWG1009247	
Malathion	ND	U	0.050	1	08/30/10	10/04/10	KWG1009247	
Ethyl Parathion	ND	U	0.050	1	08/30/10	10/04/10	KWG1009247	
Azinphos-methyl (Guthion)	ND	U	0.050	1	08/30/10	10/04/10	KWG1009247	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	107	38-158	10/04/10	Acceptable
Triphenyl Phosphate	115	35-163	10/04/10	Acceptable

Comments:

Client: SGS Environmental Services, Inc. **Service Request:** K1008971
Project:
Sample Matrix: Sludge, solid

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3540C **Units:** PERCENT
Analysis Method: 8141A **Level:** Low

Sample Name	Lab Code	Sur1	Sur2
Sludge	K1008971-003	105	82
Method Blank	KWG1009247-4	107	115
SludgeMS	KWG1009247-1	89	73
SludgeDMS	KWG1009247-2	104	93
Lab Control Sample	KWG1009247-3	78	77

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	38-158
Sur2 =	Triphenyl Phosphate	35-163

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Sludge, solid

Service Request: K1008971
Date Extracted: 08/30/2010
Date Analyzed: 10/04/2010

Matrix Spike/Duplicate Matrix Spike Summary
Organophosphorus Pesticides

Sample Name: Sludge
Lab Code: K1008971-003

Units: mg/Kg
Basis: Dry

Extraction Method: EPA 3540C
Analysis Method: 8141A

Level: Low
Extraction Lot: KWG1009247

Analyte Name	Sample Result	SludgeMS KWG1009247-1 Matrix Spike			SludgeDMS KWG1009247-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Demeton-O,S	ND	0.114	0.429	27	0.114	0.432	26	10-127	0	40
Methyl Parathion	ND	0.328	0.429	76	0.353	0.432	82	30-162	8	40
Malathion	ND	0.217	0.429	51	0.241	0.432	56	21-140	11	40
Ethyl Parathion	ND	0.126	0.429	29	0.137	0.432	32	23-150	8	40
Azinphos-methyl (Guthion)	ND	0.0969	0.429	23	0.0882	0.432	20	17-209	9	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: SGS Environmental Services, Inc.
Project:
Sample Matrix: Sludge, solid

Service Request: K1008971
Date Extracted: 08/30/2010
Date Analyzed: 10/04/2010

Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3540C
Analysis Method: 8141A

Units: mg/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1009247

	Lab Control Sample KWG1009247-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Demeton-O,S	0.171	0.267	64	10-127
Methyl Parathion	0.213	0.267	80	43-142
Malathion	0.229	0.267	86	41-123
Ethyl Parathion	0.241	0.267	91	45-127
Azinphos-methyl (Guthion)	0.232	0.267	87	33-156

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B2 Asbestos

Solar Environmental Services, &
International Asbestos Testing Labs

AUGUST SAMPLING, ASBESTOS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10ASB004	4068114	INFLUENT	ASBESTOS	SAMPLE
MOA10ASB005	4068115	EFFLUENT	ASBESTOS	SAMPLE
MOA10ASB006	4068782	SLUDGE	ASBESTOS	SAMPLE

IATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client:	Solar Environmental Services	**Report Date:**	9/2/2010
	1131 76th Ave. Suite 102	**Project:**	
	Anchorage AK 99518	**Project No.:**	S06.01

TEM WATER SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location	Total Asbestos Concentration	Asbestos Concentration Fibers > 10 Microns	Asbestos Types
4068114	M0A10ASB004	Sampled-8-17-10 08:00 Analyzed-9-1-10 Non-Potable	<4.11 Million Fibers/Liter	<4.11 Million Fibers/Liter	None Detected
4068115	M0A10ASB005	Sampled-8-17-10 08:00 Analyzed-9-1-10 Non-Potable	<37.00 Million Fibers/Liter	<37.00 Million Fibers/Liter	None Detected

NJ DEP 03863 **NVLAP Lab Code 101165-0** **NYS-DOH No. 11021**

Methodology: EPA Method For Determining Asbestos In Drinking Water (EPA 600/4-83-043) and EPA Method 100.1 and 100.2
NYSDOH Method For Waterborne Asbestos (ELAP 198.2)

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client. Samples are not blank corrected.
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government

Minimum detection limit dependant upon turbidity of sample and volume filtered. National Primary Drinking Water Regulations under EPA's Safe Drinking Water Act dictates maximum contaminant levels for asbestos at 7.0 million fibers per liter. EPA and NYS-DOH regulations require segregation of overall fiber concentration, total asbestos concentration and asbestos concentration of fibers > 10 microns in length.

Analysis Performed By: C. Liska

Approved By:

Date: 9/1/2010

Frank E. Ehrenfeld, III
Laboratory Director

IATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway Suite B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: Solar Environmental Services
1131 76th Ave. Suite 102
Anchorage AK 99518

Report Date: 9/2/2010
Project:
Project No.: S06.01

IATL No.: 4068114
Client Sample No.: M0A10ASB004

Description/ Location: Sampled-8-17-10 08:00
Analyzed-9-1-10
Non-Potable

Volume Filtered:	3.0 Milliliters
Filter Type:	MCE
Filter Size:	962 mm²
Pore Size:	0.45 µm
ANALYSIS RESULTS:	
Grid Openings:	6
Opening Area:	0.013 mm²
Area Analyzed:	0.078 mm²
Detection Limit:	4.110 Million Fibers/Liter
Sensitivity:	12.8 Fibers/mm²
ASBESTOS FIBERS:	
> 0.5 Microns:	None Detected
Concentration:	<4.11 Million Fibers/Liter
> 10 Microns:	None Detected
Concentration:	<4.11 Million Fibers/Liter
Types Identified:	None Detected
Type 2:	
Type 3:	
NON-ASBESTOS FIBERS:	1
Concentration:	4.11 Million Fibers/Liter
Types Identified:	Gypsum (CaSO4)
Type 2:	
Type 3:	
Type 4:	
Micrograph Number:	
X-Ray Spectrum Number:	

Methodology: EPA Method For Determining Asbestos In Drinking Water (EPA 600/4-83-043) and EPA Method 100.1 and 100.2. NYSDOH Method For Waterborne Asbestos (ELAP 198.2)

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

Analysis Performed By: C. Liska

Date: 9/1/2010

IATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway Suite B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

Transmission Electron Microscopy - Sample Data

Client: Solar Environmental Services
1131 76th Ave. Suite 102
Anchorage AK 99518

Report Date: 9/2/2010
Project:
Project No.: S06.01

IATL No.: 4068115
Client Sample No.: M0A10ASB005

Description/ Location: Sampled-8-17-10 08:00
Analyzed-9-1-10
Non-Potable

Volume Filtered:	0.2 Milliliters
Filter Type:	MCE
Filter Size:	962 mm²
Pore Size:	0.45 µm
ANALYSIS RESULTS:	
Grid Openings:	8
Opening Area:	0.013 mm²
Area Analyzed:	0.104 mm²
Detection Limit:	37.000 Million Fibers/Liter
Sensitivity:	9.6 Fibers/mm²
ASBESTOS FIBERS:	
> 0.5 Microns:	None Detected
Concentration:	<37.00 Million Fibers/Liter
> 10 Microns:	None Detected
Concentration:	<37.00 Million Fibers/Liter
Types Identified:	None Detected
Type 2:	
Type 3:	
NON-ASBESTOS FIBERS:	None Detected
Concentration:	<37.00 Million Fibers/Liter
Types Identified:	None Detected
Type 2:	
Type 3:	
Type 4:	
Micrograph Number:	
X-Ray Spectrum Number:	

Methodology: EPA Method For Determining Asbestos In Drinking Water (EPA 600/4-83-043) and EPA Method 100.1 and 100.2. NYSDOH Method For Waterborne Asbestos (ELAP 198.2)

IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.

Analysis Performed By: C. Liska

Date: 9/1/2010

Solar Environmental Services, Inc.

7401 Meadow Street
Anchorage, AK 99507
Home Page: www.solar-environmental.com

Phone: (907) 349-7705
Fax: (907) 349-7944
E-mail: sesenvir@alaska.net

CERTIFICATE OF ANALYSIS

CLIENT:	Kinnetic Laboratories, Inc.	**CLIENT ORDER #:**	194019
ATTN:	Tim Mayers 1102 West 7th Avenue Anchorage, Alaska 99501	**PROJECT NAME:**	506.01
		PROJECT #:	AK10-1012
		REPORT #:	PLM 2058 082410
		REPORT DATE:	September 2, 2010
		COLLECTED BY:	Client
		DATE SAMPLED:	August 17, 2010
		DATE RECEIVED:	August 17, 2010
		DATE ANALYZED:	August 30, 2010
		ANALYZED BY:	R. Caran -IATL
PAGE:	1of 1		

ASBESTOS QUALITATIVE DUST ANALYSIS SUMMARY

POLARIZED LIGHT MICROSCOPY (PLM) WITH DISPERSION STAINING

Lab.#	Client#	Location/ Description (color)	Asbestos Present	Notes
4068782	MOA08ASB006	Sludge (Gray)	None Detected	

End of Report

Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test Report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected results cannot be guaranteed. Electron Microscopy is recommended for confirmation. This is not covered by NVLAP.

REVIEWED AND APPROVED BY: Gracita O. Torrijos, Chemist – I.H.

Date: 9/2/10

FORM# SES 1031-REVISED 08/07/96

AIHA – AAR – PAT Certified

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Solar Environmental Services 7401 Meadow Street Anchorage, AK 99507 Attn: Grace Torrijos (907) 349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days	P.O. #: AK10-1012	KLI Proj. #:506.01

ANALYSIS TYPE: ASBESTOS TEM. Method detection limit to be determined.

MATRIX: Water	**Preservative:** Chilled to 6°C	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10ASB004	Influent	1	8/17/10 0800		
MOA10ASB005	Effluent	1	8/17/10 0800		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 8/17/10	1110	hand	[signature]	8/17/10 1110
[signature]	8/17/10 1200	hand	[signature]	8/17/10 1200

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
Solar Environmental Services 7401 Meadow Street Anchorage, AK 99507 Attn: Grace Torrijos (907) 349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days	P.O. #: AK10-	KLI Proj. #:506.01

ANALYSIS TYPE: ASBESTOS PLM. Method detection limit to be determined.

MATRIX: Sludge	**Preservative:** Chilled to 6°C	**Type of Container:** : 250-mL glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10ASB006	Sludge	1	8/17/10 0955		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 8/17/10 1110		hand	[signature]	8/17/10 1110
[signature]	8/17/10 1200	hand	[signature]	8/17/10 1200

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's wet\MOA10_wet_COC.doc

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B3 Enterococci

Anchorage Water & Wastewater Utility

AUGUST SAMPLING, ENTEROCOCCI

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10ENT003	AA80143	EFFLUENT REP-1	ENTEROCOCCI	SAMPLE
MOA10ENT004	AA80144	EFFLUENT REP-2	ENTEROCOCCI	SAMPLE

Anchorage Water and Wastewater Utility
Water Quality Section
AK 00017

Method: Standard Methods 20th ed. 9223B Enzyme Substrate
(Idexx Colilert Quanti-tray)

Enterococci

Sample Location: Asplund WWTF
Sample Type:
Thiosulfate Added: Yes ___ No ___
EDTA Added: Yes ___ No ___
Chlorine Residual, mg/L: 0.59
Collected By: SWS

Date & Time Collected: 8-18-10 / 1350
Date & Time set: 8-18-10 / 1400
Analyst: SWG

Date & Time read (24 hours): 8-19-10 / 1400
Analyst: SWS

Sample I.D. SWS AA80143 (DILUTIONS)

Enterococci (Blue Fluorescence)

Replicate	Dilution (mls. of sample)	Positive Small Wells	Positive Large Wells	MPN Table	Result (MPN Table x Dilution factor) Cfu / 100 ml.
BLANK	100 mls	Ø	Ø	<1	—
7ml	100X	Ø	8	8.6	860
10ml	10X	10	25	48.2	482
20ml	5X	10	26	50.4	252

RESULT: _____ **Enterococci cfu / 100 ml.**

Comments:

Analyst's Review: _____ Supervisor's Review: _____

Anchorage Water and Wastewater Utility
Water Quality Section
AK 00017

Method: Standard Methods 20th ed. 9223B Enzyme Substrate
(Idexx Colilert Quanti-tray)

Enterococci

Sample Location: Asplund WWTF
Sample Type:
Thiosulfate Added: Yes ____ No ____
EDTA Added: Yes ____ No ____
Chlorine Residual, mg/L: 0.59
Collected By: SWG

Date & Time Collected: 8-18-10 / 1350
Date & Time set: 8-18-10 / 1400
Analyst: SWG

Date & Time read (24 hours): 8-19-10 / 1400
Analyst: SWG

Sample I.D. AA 80143/AA80144

Enterococci (Blue Fluorescence)

Replicate	Dilution (mls. of sample)	Positive Small Wells	Positive Large Wells	MPN Table	Result (MPN Table x Dilution factor) Cfu / 100 ml.	
~~[illegible]~~	100 ml	48	49	>2419.6	>2419.6	AA80143
~~DUP~~	↓	48	49	>2419.6	>2419.6	AA80144
~~BLANK~~	↓	~~0~~	~~0~~	<1		
4.	—	—	—	—	—	

RESULT: _____ **Enterococci cfu / 100 ml.**

Comments:

Analyst's Review: _____ Supervisor's Review: _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
To be run in house by AWWU.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. NA	KLI Proj. #:506.01

ANALYSIS TYPE: Enterococci by MPN (SM 9230B)

MATRIX: Water	**Preservative:** 6°C Effluent samples contain $Na_2S_2O_3$	**Type of Container:** 125-mL Bac-T bottles

SAMPLE IDENTIFICATION	SAMPLE NUMBER	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10ENT003	Effluent-1	1 2 MS	~~8/17/10 0800~~ 8/18/10 1350		AA80143
MOA10ENT004	Effluent-2	1 2 MS	~~8/17/10 0800~~ 8/18/10 1350		AA80144

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] ~~8/10~~ 8/17/10				

APPENDIX C

Receiving Water Quality Monitoring

C1 Total Suspended Solids and Cyanide

Soil Control Lab

RECEIVING WATER, TOTAL CYANIDE AND TOTAL SUSPENDED SOLIDS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10TCN001	0070509-07	F1-1S	TOTAL CYANIDE	SAMPLE
MOA10TCN002	0070509-08	F1-2S	TOTAL CYANIDE	SAMPLE
MOA10TCN003	0070509-09	F1-3S	TOTAL CYANIDE	SAMPLE
MOA10TCN004	0070509-10	C1-1S	TOTAL CYANIDE	SAMPLE
MOA10TCN005	0070509-11	C1-2S	TOTAL CYANIDE	SAMPLE
MOA10TCN007	0070509-12	C1-3S	TOTAL CYANIDE	SAMPLE
MOA10TCN008	0070509-19	EFFLUENT	TOTAL CYANIDE	SAMPLE
MOA10TSS001	0070509-01	F1-1S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS002	0070509-02	F1-2S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS003	0070509-03	F1-3S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS004	0070509-04	C1-1S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS005	0070509-05	C1-2S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS007	0070509-06	C1-3S	SUSPENDED SOLIDS	SAMPLE
MOA10TSS008	0070509-20	EFFLUENT	SUSPENDED SOLIDS	SAMPLE

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

TEL: 831-724-5422
FAX: 831-724-3188

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

December 30, 2010

RE: None / 506.02
Workorder: 0070509

Dear Gary Lawley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 7/16/2010 10:00:00 AM.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Mike Galloway

Mike Galloway
Lab Director

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
0070509-01	MOA10TSS001	F1-1S	Water	07/13/10 16:00	07/16/10 10:00
0070509-02	MOA10TSS002	F1-2S	Water	07/13/10 16:40	07/16/10 10:00
0070509-03	MOA10TSS003	F1-3S	Water	07/13/10 16:55	07/16/10 10:00
0070509-04	MOA10TSS004	C1-1S	Water	07/14/10 17:25	07/16/10 10:00
0070509-05	MOA10TSS005	C1-2S	Water	07/14/10 17:38	07/16/10 10:00
0070509-06	MOA10TSS007	C1-3S	Water	07/14/10 17:55	07/16/10 10:00
0070509-07	MAO10TCN001	F1-1S	Water	07/13/10 16:00	07/16/10 10:00
0070509-08	MAO10TCN002	F1-2S	Water	07/13/10 16:40	07/16/10 10:00
0070509-09	MAO10TCN003	F1-3S	Water	07/13/10 16:50	07/16/10 10:00
0070509-10	MAO10TCN004	C1-1S	Water	07/14/10 17:25	07/16/10 10:00
0070509-11	MAO10TCN005	C1-2S	Water	07/14/10 17:38	07/16/10 10:00
0070509-12	MAO10TCN007	C1-3S	Water	07/14/10 17:55	07/16/10 10:00
0070509-13	MAO10SAL001	F2-3S	Water	07/13/10 18:02	07/16/10 10:00
0070509-14	MAO10SAL002	F2-3M	Water	07/13/10 18:02	07/16/10 10:00
0070509-15	MAO10SAL003	F2-3B	Water	07/13/10 18:02	07/16/10 10:00
0070509-16	MAO10SAL004	C2-3S	Water	07/14/10 19:15	07/16/10 10:00
0070509-17	MAO10SAL005	C2-3M	Water	07/14/10 19:15	07/16/10 10:00
0070509-18	MAO10SAL006	C2-3B	Water	07/14/10 19:15	07/16/10 10:00
0070509-19	MAO10TCN008	Effluent	Water	07/14/10 06:00	07/16/10 10:00
0070509-20	MOA10TSS008	Effluent	Water	07/14/10 06:00	07/16/10 10:00

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS001
Matrix: Water
Laboratory #: 0070509-01

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	280	mg/L	5.5	0.55	5.49	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS002
Matrix: Water
Laboratory #: 0070509-02

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	690	mg/L	10	1.0	10	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS003
Matrix: Water
Laboratory #: 0070509-03

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	540	mg/L	10	1.0	10	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS004
Matrix: Water
Laboratory #: 0070509-04

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	510	mg/L	10	1.0	10	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS005
Matrix: Water
Laboratory #: 0070509-05

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	840	mg/L	10	1.0	10	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS007
Matrix: Water
Laboratory #: 0070509-06

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	580	mg/L	10	1.0	10	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN001
Matrix: Water
Laboratory #: 0070509-07

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.14	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN002
Matrix: Water
Laboratory #: 0070509-08

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.11	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN003
Matrix: Water
Laboratory #: 0070509-09

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	ND	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN004
Matrix: Water
Laboratory #: 0070509-10

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.19	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN005
Matrix: Water
Laboratory #: 0070509-11

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.11	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN007
Matrix: Water
Laboratory #: 0070509-12

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.15	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL001
Matrix: Water
Laboratory #: 0070509-13

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	6.0	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL002
Matrix: Water
Laboratory #: 0070509-14

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	6.0	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL003
Matrix: Water
Laboratory #: 0070509-15

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	5.9	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL004
Matrix: Water
Laboratory #: 0070509-16

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	5.4	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL005
Matrix: Water
Laboratory #: 0070509-17

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	5.4	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10SAL006
Matrix: Water
Laboratory #: 0070509-18

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Salinity	5.4	ppt	0.10	0.10	1	Sm 2520B	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MAO10TCN008
Matrix: Water
Laboratory #: 0070509-19

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.20	ug/L	1.0	0.10	1	EPA 335.2	07/26/10	J

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Date Received: July 16, 2010
Project # / Name: None / 506.02
Sample Identification: MOA10TSS008
Matrix: Water
Laboratory #: 0070509-20

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	57	mg/L	4.1	0.41	4.13	SM 2540D	07/19/10	

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley

Work Order #: 0070509
Reporting Date: December 30, 2010

Classical Chemistry Parameters - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG00173 - Default Prep GenChem											
Blank (PG00173-BLK1)					Prepared & Analyzed: 19-Jul-10						
Total Suspended Solids	ND	0.20	2.0	mg/L							
Duplicate (PG00173-Dup1)		**Source: 0070509-02**			Prepared & Analyzed: 19-Jul-10						
Total Suspended Solids	698.0	1.0	10	mg/L		693.0			0.719	20	
Batch PL00331 - Default Prep GenChem											
Blank (PL00331-BLK1)					Prepared & Analyzed: 26-Jul-10						
Cyanide (total)	ND	0.10	1.0	ug/L							
Duplicate (PL00331-DUP1)		**Source: 0070509-07**			Prepared & Analyzed: 26-Jul-10						
Cyanide (total)	0.1667	0.10	1.0	ug/L		0.1400			17.4	20	J
Matrix Spike (PL00331-MS1)		**Source: 0070509-07**			Prepared & Analyzed: 26-Jul-10						
Cyanide (total)	27.73	1.0	10	ug/L	33.3	0.1400	82.8	70-130			
Matrix Spike Dup (PL00331-MSD1)		**Source: 0070509-07**			Prepared & Analyzed: 26-Jul-10						
Cyanide (total)	29.17	1.0	10	ug/L	33.3	0.1400	87.1	70-130	5.04	20	
Reference (PL00331-SRM1)					Prepared & Analyzed: 26-Jul-10						
Cyanide (total)	11.93	1.0	10	ug/L	13.8		86.4	70-130			

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

APPENDIX C

Receiving Water Quality Monitoring

C2 Aromatic Hydrocarbons and Color

SGS North America, Inc.

RECEIVING WATER, HYDROCARBONS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10VOA001	110-345-2009	F1-1S	VOLATILE ORGANICS	SAMPLE
MOA10VOA002	110-345-2010	F1-2S	VOLATILE ORGANICS	SAMPLE
MOA10VOA004	110-345-2011	F1-3S	VOLATILE ORGANICS	SAMPLE
MOA10VOA005	110-345-2057	C1-1S	VOLATILE ORGANICS	SAMPLE
MOA10VOA006	110-345-2060	C1-2S	VOLATILE ORGANICS	SAMPLE
MOA10VOA007	110-345-2061	C1-3S	VOLATILE ORGANICS	SAMPLE
MOA10VOA009	110-345-2062	C-STATION	VOLATILE ORGANICS	FIELD BLANK
MOA10VOA010	110-345-2063	TRIP BLANK	VOLATILE ORGANICS	TRIP BLANK

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-1S**
SGS Ref. #: 1103452009
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:00
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11397	VXX20952	
Benzene	0.400 U	0.400	ug/L	1	VMS11397	VXX20952	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11397	VXX20952	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11397	VXX20952	
Toluene	2.10	1.00	ug/L	1	VMS11397	VXX20952	
1,2-Dichloroethane-D4 <surr>	114	73-120	%	1	VMS11397	VXX20952	
4-Bromofluorobenzene <surr>	92.1	76-120	%	1	VMS11397	VXX20952	
Toluene-d8 <surr>	98.1	80-120	%	1	VMS11397	VXX20952	

Batch Information

Analytical Batch: VMS11397
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 08:33
Dilution Factor: 1

Prep Batch: VXX20952
Prep Method: SW5030B
Prep Date/Time: 07/19/10 08:08

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452009-A
Analyst: SCL

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-2S**
SGS Ref. #: 1103452010
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:40
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result		LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U		1.00	ug/L	1	VMS11397	VXX20952	
1,3-Dichlorobenzene	1.00 U		1.00	ug/L	1	VMS11397	VXX20952	
1,4-Dichlorobenzene	0.500 U		0.500	ug/L	1	VMS11397	VXX20952	
Benzene	0.400 U		0.400	ug/L	1	VMS11397	VXX20952	
Chlorobenzene	0.500 U		0.500	ug/L	1	VMS11397	VXX20952	
Ethylbenzene	1.00 U		1.00	ug/L	1	VMS11397	VXX20952	
o-Xylene	1.00 U		1.00	ug/L	1	VMS11397	VXX20952	
P & M -Xylene	2.00 U		2.00	ug/L	1	VMS11397	VXX20952	
Toluene	1.00 U		1.00	ug/L	1	VMS11397	VXX20952	
1,2-Dichloroethane-D4 <surr>	121	*	73-120	%	1	VMS11397	VXX20952	
4-Bromofluorobenzene <surr>	94.5		76-120	%	1	VMS11397	VXX20952	
Toluene-d8 <surr>	95.7		80-120	%	1	VMS11397	VXX20952	

Batch Information

Analytical Batch: VMS11397
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 09:07
Dilution Factor: 1

Prep Batch: VXX20952
Prep Method: SW5030B
Prep Date/Time: 07/19/10 08:08

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452010-A
Analyst: SCL

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-3S**
SGS Ref. #: 1103452011
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:50
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11397	VXX20952	
Benzene	0.540	0.400	ug/L	1	VMS11397	VXX20952	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11397	VXX20952	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11397	VXX20952	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11397	VXX20952	
Toluene	1.37	1.00	ug/L	1	VMS11397	VXX20952	
1,2-Dichloroethane-D4 <surr>	116	73-120	%	1	VMS11397	VXX20952	
4-Bromofluorobenzene <surr>	101	76-120	%	1	VMS11397	VXX20952	
Toluene-d8 <surr>	96	80-120	%	1	VMS11397	VXX20952	

Batch Information

Analytical Batch: VMS11397
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 09:41
Dilution Factor: 1

Prep Batch: VXX20952
Prep Method: SW5030B
Prep Date/Time: 07/19/10 08:08

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452011-A
Analyst: SCL

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-1S**
SGS Ref. #: 1103452057
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:25
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Benzene	0.400 U	0.400	ug/L	1	VMS11402	VXX20962	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11402	VXX20962	
Toluene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,2-Dichloroethane-D4 <surr>	109	73-120	%	1	VMS11402	VXX20962	
4-Bromofluorobenzene <surr>	104	76-120	%	1	VMS11402	VXX20962	
Toluene-d8 <surr>	101	80-120	%	1	VMS11402	VXX20962	

Batch Information

Analytical Batch: VMS11402
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 19:10
Dilution Factor: 1

Prep Batch: VXX20962
Prep Method: SW5030B
Prep Date/Time: 07/20/10 14:06

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452057-A
Analyst: JPI

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-2S**
SGS Ref. #: 1103452060
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:38
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Benzene	0.400 U	0.400	ug/L	1	VMS11402	VXX20962	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11402	VXX20962	
Toluene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,2-Dichloroethane-D4 <surr>	110	73-120	%	1	VMS11402	VXX20962	
4-Bromofluorobenzene <surr>	104	76-120	%	1	VMS11402	VXX20962	
Toluene-d8 <surr>	99.9	80-120	%	1	VMS11402	VXX20962	

Batch Information

Analytical Batch: VMS11402
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 19:44
Dilution Factor: 1

Prep Batch: VXX20962
Prep Method: SW5030B
Prep Date/Time: 07/20/10 14:06

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452060-A
Analyst: JPI

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-3S**
SGS Ref. #: 1103452061
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:55
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Benzene	0.400 U	0.400	ug/L	1	VMS11402	VXX20962	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11402	VXX20962	
Toluene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,2-Dichloroethane-D4 <surr>	108	73-120	%	1	VMS11402	VXX20962	
4-Bromofluorobenzene <surr>	101	76-120	%	1	VMS11402	VXX20962	
Toluene-d8 <surr>	97.1	80-120	%	1	VMS11402	VXX20962	

Batch Information

Analytical Batch: VMS11402
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 20:18
Dilution Factor: 1

Prep Batch: VXX20962
Prep Method: SW5030B
Prep Date/Time: 07/20/10 14:06

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452061-A
Analyst: JPI

SGS Ref.#	974547 Method Blank	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	VXX20952
Project Name/#	KLI Proj. #506.01		**Method**	SW5030B
Matrix	Water (Surface, Eff., Ground)		**Date**	07/19/2010

QC results affect the following production samples:

1103452009, 1103452010, 1103452011, 1103452012

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy					
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	07/20/10
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	07/20/10
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	07/20/10
Benzene	0.240 U	0.400	0.120	ug/L	07/20/10
Chlorobenzene	0.300 U	0.500	0.150	ug/L	07/20/10
Ethylbenzene	0.620 U	1.00	0.310	ug/L	07/20/10
o-Xylene	0.620 U	1.00	0.310	ug/L	07/20/10
P & M -Xylene	1.24 U	2.00	0.620	ug/L	07/20/10
Toluene	0.620 U	1.00	0.310	ug/L	07/20/10
Surrogates					
1,2-Dichloroethane-D4 <surr>	117	73-120		%	07/20/10
4-Bromofluorobenzene <surr>	93.7	76-120		%	07/20/10
Toluene-d8 <surr>	95.6	80-120		%	07/20/10

Batch	VMS11397
Method	EPA 602/624
Instrument	HP 5890 Series II MS3 VNA

SGS Ref.#	975031 Method Blank	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	VXX20962
Project Name/#	KLI Proj. #506.01		**Method**	SW5030B
Matrix	Water (Surface, Eff., Ground)		**Date**	07/20/2010

QC results affect the following production samples:

1103452057, 1103452060, 1103452061, 1103452062, 1103452063

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy					
1,2-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	07/20/10
1,3-Dichlorobenzene	0.620 U	1.00	0.310	ug/L	07/20/10
1,4-Dichlorobenzene	0.300 U	0.500	0.150	ug/L	07/20/10
Benzene	0.240 U	0.400	0.120	ug/L	07/20/10
Chlorobenzene	0.300 U	0.500	0.150	ug/L	07/20/10
Ethylbenzene	0.620 U	1.00	0.310	ug/L	07/20/10
o-Xylene	0.620 U	1.00	0.310	ug/L	07/20/10
P & M -Xylene	1.24 U	2.00	0.620	ug/L	07/20/10
Toluene	0.620 U	1.00	0.310	ug/L	07/20/10
Surrogates					
1,2-Dichloroethane-D4 <surr>	110	73-120		%	07/20/10
4-Bromofluorobenzene <surr>	102	76-120		%	07/20/10
Toluene-d8 <surr>	101	80-120		%	07/20/10

Batch	VMS11402
Method	EPA 602/624
Instrument	HP 5890 Series II MS3 VNA

SGS Ref.#	974548	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:08
	974549	Lab Control Sample Duplicate	**Prep Batch**	VXX20952	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW5030B	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452009, 1103452010, 1103452011, 1103452012

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Volatile Gas Chromatography/Mass Spectroscopy

SGS Ref.#	974548	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:08
	974549	Lab Control Sample Duplicate	**Prep Batch**	VXX20952	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW5030B	
Project Name/#	KLI Proj. #506.01		**Date**	07/19/2010	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy								
1,2-Dichlorobenzene	LCS	28.3	94	(80-120)			30 ug/L	07/20/2010
	LCSD	28.7	96		2	(< 20)	30 ug/L	07/20/2010
1,3-Dichlorobenzene	LCS	29.8	99	(80-120)			30 ug/L	07/20/2010
	LCSD	31.4	105		5	(< 20)	30 ug/L	07/20/2010
1,4-Dichlorobenzene	LCS	31.7	106	(80-120)			30 ug/L	07/20/2010
	LCSD	33.2	111		5	(< 20)	30 ug/L	07/20/2010
Benzene	LCS	33.1	110	(80-120)			30 ug/L	07/20/2010
	LCSD	32.5	108		2	(< 20)	30 ug/L	07/20/2010
Chlorobenzene	LCS	29.9	100	(80-120)			30 ug/L	07/20/2010
	LCSD	29.5	99		1	(< 20)	30 ug/L	07/20/2010
Ethylbenzene	LCS	30.3	101	(80-120)			30 ug/L	07/20/2010
	LCSD	29.3	98		3	(< 20)	30 ug/L	07/20/2010
o-Xylene	LCS	30.7	102	(80-120)			30 ug/L	07/20/2010
	LCSD	31.3	104		2	(< 20)	30 ug/L	07/20/2010
P & M -Xylene	LCS	60.9	101	(80-120)			60 ug/L	07/20/2010
	LCSD	59.8	100		2	(< 20)	60 ug/L	07/20/2010
Toluene	LCS	30.0	100	(77-120)			30 ug/L	07/20/2010
	LCSD	29.8	99		1	(< 20)	30 ug/L	07/20/2010
Surrogates								
1,2-Dichloroethane-D4 <surr>	LCS		101	(73-120)				07/20/2010
	LCSD		93		8			07/20/2010
4-Bromofluorobenzene <surr>	LCS		100	(76-120)				07/20/2010
	LCSD		101		1			07/20/2010
Toluene-d8 <surr>	LCS		103	(80-120)				07/20/2010
	LCSD		103		1			07/20/2010

Batch	VMS11397
Method	EPA 602/624
Instrument	HP 5890 Series II MS3 VNA

SGS

SGS Ref.#	975032	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:08
	975033	Lab Control Sample Duplicate	**Prep Batch**	VXX20962	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW5030B	
Project Name/#	KLI Proj. #506.01		**Date**	07/20/2010	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy								
1,2-Dichlorobenzene	LCS	28.8	96	(80-120)			30 ug/L	07/20/2010
	LCSD	27.8	93		3	(< 20)	30 ug/L	07/20/2010
1,3-Dichlorobenzene	LCS	31.6	105	(80-120)			30 ug/L	07/20/2010
	LCSD	30.2	101		5	(< 20)	30 ug/L	07/20/2010
1,4-Dichlorobenzene	LCS	32.2	107	(80-120)			30 ug/L	07/20/2010
	LCSD	31.1	104		3	(< 20)	30 ug/L	07/20/2010
Benzene	LCS	32.6	109	(80-120)			30 ug/L	07/20/2010
	LCSD	30.5	102		7	(< 20)	30 ug/L	07/20/2010
Chlorobenzene	LCS	31.4	105	(80-120)			30 ug/L	07/20/2010
	LCSD	28.9	96		9	(< 20)	30 ug/L	07/20/2010
Ethylbenzene	LCS	32.6	109	(80-120)			30 ug/L	07/20/2010
	LCSD	29.9	100		9	(< 20)	30 ug/L	07/20/2010
o-Xylene	LCS	32.0	107	(80-120)			30 ug/L	07/20/2010
	LCSD	29.7	99		8	(< 20)	30 ug/L	07/20/2010
P & M -Xylene	LCS	61.9	103	(80-120)			60 ug/L	07/20/2010
	LCSD	57.2	95		8	(< 20)	60 ug/L	07/20/2010
Toluene	LCS	30.2	101	(77-120)			30 ug/L	07/20/2010
	LCSD	27.8	93		8	(< 20)	30 ug/L	07/20/2010
Surrogates								
1,2-Dichloroethane-D4 <surr>	LCS		100	(73-120)				07/20/2010
	LCSD		100		1			07/20/2010
4-Bromofluorobenzene <surr>	LCS		101	(76-120)				07/20/2010
	LCSD		103		3			07/20/2010
Toluene-d8 <surr>	LCS		104	(80-120)				07/20/2010
	LCSD		102		2			07/20/2010

Batch	VMS11402
Method	EPA 602/624
Instrument	HP 5890 Series II MS3 VNA

SGS

SGS Ref.#	1103452058	Billable Matrix Spike	**Printed Date/Time**	12/29/2010 15:08
	1103452059	Billable Matrix Spike Dup.	**Prep Batch**	VXX20962
			Method	Volatiles Extraction 8240/8260
			Date	07/20/2010
Original	1103452057			
Matrix	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
1,2-Dichlorobenzene	BMS	(1.00) U	29.3	98	(80-120)			30.0 ug/L	07/20/2010
	BMSD		29.0	97		1	(< 20)	30.0 ug/L	07/20/2010
1,3-Dichlorobenzene	BMS	(1.00) U	31.6	105	(80-120)			30.0 ug/L	07/20/2010
	BMSD		31.6	105		0	(< 20)	30.0 ug/L	07/20/2010
1,4-Dichlorobenzene	BMS	(0.500) U	32.7	109	(80-120)			30.0 ug/L	07/20/2010
	BMSD		32.5	108		1	(< 20)	30.0 ug/L	07/20/2010
Benzene	BMS	(0.400) U	31.7	106	(80-120)			30.0 ug/L	07/20/2010
	BMSD		32.4	108		2	(< 20)	30.0 ug/L	07/20/2010
Chlorobenzene	BMS	(0.500) U	31.3	104	(80-120)			30.0 ug/L	07/20/2010
	BMSD		31.0	103		1	(< 20)	30.0 ug/L	07/20/2010
Ethylbenzene	BMS	(1.00) U	32.5	108	(80-120)			30.0 ug/L	07/20/2010
	BMSD		32.3	108		1	(< 20)	30.0 ug/L	07/20/2010
o-Xylene	BMS	(1.00) U	31.7	106	(80-120)			30.0 ug/L	07/20/2010
	BMSD		31.3	104		1	(< 20)	30.0 ug/L	07/20/2010
P & M -Xylene	BMS	(2.00) U	61.9	103	(80-120)			60.0 ug/L	07/20/2010
	BMSD		60.3	100		3	(< 20)	60.0 ug/L	07/20/2010
Toluene	BMS	(1.00) U	30.3	101	(77-120)			30.0 ug/L	07/20/2010
	BMSD		29.5	98		3	(< 20)	30.0 ug/L	07/20/2010
Surrogates									
1,2-Dichloroethane-D4 <surr>	BMS		29.8	99	(73-120)				07/20/2010
	BMSD		30.2	101		1			07/20/2010
4-Bromofluorobenzene <surr>	BMS		30.5	102	(76-120)				07/20/2010
	BMSD		30.7	102		1			07/20/2010
Toluene-d8 <surr>	BMS		30.8	103	(80-120)				07/20/2010
	BMSD		30.8	103		0			07/20/2010

Batch	VMS11402
Method	EPA 602/624
Instrument	HP 5890 Series II MS3 VNA

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C Station**
SGS Ref. #: 1103452062
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:38
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Benzene	0.400 U	0.400	ug/L	1	VMS11402	VXX20962	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11402	VXX20962	
Toluene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,2-Dichloroethane-D4 <surr>	106	73-120	%	1	VMS11402	VXX20962	
4-Bromofluorobenzene <surr>	107	76-120	%	1	VMS11402	VXX20962	
Toluene-d8 <surr>	98.1	80-120	%	1	VMS11402	VXX20962	

Batch Information

Analytical Batch: VMS11402
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 20:52
Dilution Factor: 1

Prep Batch: VXX20962
Prep Method: SW5030B
Prep Date/Time: 07/20/10 14:06

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452062-A
Analyst: JPI

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **TRIP BLANK**
SGS Ref. #: 1103452063
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:38
Receipt Date/Time: 07/15/10 13:10

Volatile Gas Chromatography/Mass Spectroscopy

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Benzene	0.400 U	0.400	ug/L	1	VMS11402	VXX20962	
Chlorobenzene	0.500 U	0.500	ug/L	1	VMS11402	VXX20962	
Ethylbenzene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
o-Xylene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
P & M -Xylene	2.00 U	2.00	ug/L	1	VMS11402	VXX20962	
Toluene	1.00 U	1.00	ug/L	1	VMS11402	VXX20962	
1,2-Dichloroethane-D4 <surr>	106	73-120	%	1	VMS11402	VXX20962	
4-Bromofluorobenzene <surr>	100	76-120	%	1	VMS11402	VXX20962	
Toluene-d8 <surr>	99.1	80-120	%	1	VMS11402	VXX20962	

Batch Information

Analytical Batch: VMS11402
Analytical Method: EPA 602/624
Analysis Date/Time: 07/20/10 18:37
Dilution Factor: 1

Prep Batch: VXX20962
Prep Method: SW5030B
Prep Date/Time: 07/20/10 14:06

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1103452063-A
Analyst: JPI

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCL, Flood samples contain ascorbic acid. 6°C	**Type of Container:** 40 ml glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA001 (9) A-C	F1-1S	3	7/13 1600		
MOA10VOA002 (10) A-C	F1-2S	3	7/13 1640		
~~MOA10VOA003~~	~~F1-2S~~	~~3~~			demoted sample #
MOA10VOA004 (11) A-C	F1-3S	3	7/13 1650		
~~MOA10VOA005~~	~~C1-1S~~	~~6~~			
~~MOA10VOA006~~	~~C1-2S~~	~~3~~	tomorrows		
~~MOA10VOA007~~	~~C1-3S~~	~~3~~			

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15/1312			
			Katherine Parker	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's RW\MOA10_RW_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

1103452

Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCL, Flood samples contain ascorbic acid. 6°C	**Type of Container:** 40 ml glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA001	F1-1S	3	7/14/10		
MOA10VOA002	F1-2S	3			
~~MOA10VOA003~~	F1-2S	3			demoted sample #
MOA10VOA004	F1-3S	3			
MOA10VOA005 (57) A-C	C1-1S	6	7/14 1725	extra volume for MS/SD	
MOA10VOA006 (62) A-C (59) A	C1-2S	3	7/14 1738		
MOA10VOA007 (61) A-C	C1-3S	3	7/14 1755		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1307	hand		
			Katherine Dauer	7/15/10 1310

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's RW\MOA10_RW_COC.doc

1.2 #202

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
SGS Environmental Services 200 W. Potter Anchorage, AK 99518 Attn: Forest Taylor (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 40 ml VOA Vial

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10VOA009 (102) A-C	C-STATION	3	7/14 1738		
MOA10VOA010 (103) A-C	TRIP BLANK	3	NA		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1307	hand		
			[signature]	7/15/10 9310

SAMPLED BY (NAME/SIGNATURE): _____

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E1-1S**
SGS Ref. #: 1103452033
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 09:15
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452033-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E1-2S**
SGS Ref. #: 1103452034
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 09:25
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452034-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E1-3S**
SGS Ref. #: 1103452035
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 09:36
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452035-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E1-4S**
SGS Ref. #: 1103452036
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 09:52
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452036-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E2-1S**
SGS Ref. #: 1103452037
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 11:13
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452037-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E2-2S**
SGS Ref. #: 1103452038
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 11:16
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452038-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E2-3S**
SGS Ref. #: 1103452039
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 11:24
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452039-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E2-4S**
SGS Ref. #: 1103452040
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 11:38
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452040-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E3-1S**
SGS Ref. #: 1103452041
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 13:17
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452041-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E3-2S**
SGS Ref. #: 1103452042
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 13:26
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452042-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E3-3S**
SGS Ref. #: 1103452043
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 13:43
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452043-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **E3-4S**
SGS Ref. #: 1103452044
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 14:07
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452044-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-1S**
SGS Ref. #: 1103452045
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:00
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452045-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-2S**
SGS Ref. #: 1103452046
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:40
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452046-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-3S**
SGS Ref. #: 1103452047
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 16:50
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452047-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F1-4S**
SGS Ref. #: 1103452048
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 17:14
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452048-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F2-1S**
SGS Ref. #: 1103452049
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 17:48
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452049-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F2-2S**
SGS Ref. #: 1103452050
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 17:55
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452050-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F2-3S**
SGS Ref. #: 1103452051
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 18:02
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452051-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F2-4S**
SGS Ref. #: 1103452052
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 18:14
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8271		

Batch Information

Analytical Batch: WAT8271
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 09:15

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452052-A
Analyst: LP

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F3-1S**
SGS Ref. #: 1103452053
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 19:30
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452053-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F3-2S**
SGS Ref. #: 1103452054
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 19:35
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452054-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F3-3S**
SGS Ref. #: 1103452055
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 19:40
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452055-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **F3-4S**
SGS Ref. #: 1103452056
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/13/10 19:56
Receipt Date/Time: 07/15/10 17:03

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452056-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-1S**
SGS Ref. #: 1103452068
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:28
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452068-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-2S**
SGS Ref. #: 1103452069
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:38
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452069-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-3S**
SGS Ref. #: 1103452070
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 17:55
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452070-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C1-4S**
SGS Ref. #: 1103452071
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 18:16
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452071-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-1S**
SGS Ref. #: 1103452072
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 18:50
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452072-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-2S(A)**
SGS Ref. #: 1103452073
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 19:00
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452073-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-2S(B)**
SGS Ref. #: 1103452074
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 19:00
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452074-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-2S(C)**
SGS Ref. #: 1103452075
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 19:00
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452075-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-3S**
SGS Ref. #: 1103452076
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 19:15
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452076-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C2-4S**
SGS Ref. #: 1103452077
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 19:28
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452077-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-1S(A)**
SGS Ref. #: 1103452078
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 20:34
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452078-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-1S(B)**
SGS Ref. #: 1103452079
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 20:34
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452079-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc. Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-1S(C)**
SGS Ref. #: 1103452080
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 20:34
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452080-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-2S**
SGS Ref. #: 1103452081
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 20:48
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452081-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-3S**
SGS Ref. #: 1103452082
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 20:56
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452082-A
Analyst: AYC

SGS

Kinnetic Laboratories, Inc.

Print Date: 12/29/2010 3:08 pm

Client Sample ID: **C3-4S**
SGS Ref. #: 1103452083
Project ID: KLI Proj. #506.01
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 07/14/10 21:10
Receipt Date/Time: 07/16/10 09:10

Waters Department

Parameter	Result	LOQ/CL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Color, True	5.00 U	5.00	PCU		WAT8272		

Batch Information

Analytical Batch: WAT8272
Analytical Method: SM20 2120B
Analysis Date/Time: 07/16/10 12:00

Initial Prep Wt./Vol.: 1 mL

Container ID:1103452083-A
Analyst: AYC

SGS Ref.#	974666	Method Blank	**Printed Date/Time**	12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	KLI Proj. #506.01			**Method**
Matrix	Water (Surface, Eff., Ground)			**Date**

QC results affect the following production samples:

1103452033, 1103452034, 1103452035, 1103452036, 1103452037, 1103452038, 1103452039, 1103452040, 1103452041, 1103452042, 1103452043, 1103452044, 1103452045, 1103452046, 1103452047, 1103452048, 1103452049, 1103452050, 1103452051, 1103452052

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Color, True	5.00 U	5.00	5.00	PCU	07/16/10
Batch WAT8271					
Method SM20 2120B					
Instrument					

SGS Ref.#	974703	Method Blank	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	KLI Proj. #506.01			**Method**	
Matrix	Water (Surface, Eff., Ground)			**Date**	

QC results affect the following production samples:

1103452053, 1103452054, 1103452055, 1103452056, 1103452068, 1103452069, 1103452070, 1103452071, 1103452072, 1103452073, 1103452074, 1103452075, 1103452076, 1103452077, 1103452078, 1103452079, 1103452080, 1103452081, 1103452082, 1103452083

Parameter	Results	LOQ/CL	DL	Units	Analysis Date
Waters Department					
Color, True	5.00 U	5.00	5.00	PCU	07/16/10
Batch WAT8272					
Method SM20 2120B					
Instrument					

SGS Ref.#	1103452084	Billable Duplicate	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	KLI Proj. #506.01			**Method**	
Original	1103452042			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color, True	5.00 U	5.00 U	PCU	0		07/16/2010

Batch WAT8271
Method SM20 2120B
Instrument

SGS

SGS Ref.#	1103452085	Billable Duplicate	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	KLI Proj. #506.01			**Method**	
Original	1103452052			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color, True	5.00 U	5.00 U	PCU	0		07/16/2010

Batch WAT8271
Method SM20 2120B
Instrument

SGS

SGS Ref.#	1103452086	Billable Duplicate	**Printed Date/Time**	12/29/2010	15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	KLI Proj. #506.01			**Method**	
Original	1103452056			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color, True	5.00 U	5.00 U	PCU	0		07/16/2010

Batch WAT8272
Method SM20 2120B
Instrument

SGS

SGS Ref.#	1103452087	Billable Duplicate	**Printed Date/Time**		12/29/2010 15:08
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	KLI Proj. #506.01			**Method**	
Original	1103452077			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color, True	5.00 U	5.00 U	PCU	0		07/16/2010
Batch WAT8272						
Method SM20 2120B						
Instrument						

SGS

SGS Ref.#	974667	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:08
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	KLI Proj. #506.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452033, 1103452034, 1103452035, 1103452036, 1103452037, 1103452038, 1103452039, 1103452040, 1103452041, 1103452042, 1103452043, 1103452044, 1103452045, 1103452046, 1103452047, 1103452048, 1103452049, 1103452050, 1103452051, 1103452052

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color, True	LCS	14.0	*					07/16/2010

Batch WAT8271
Method SM20 2120B
Instrument

SGS

SGS Ref.#	974704	Lab Control Sample	**Printed Date/Time**	12/29/2010	15:08
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	KLI Proj. #506.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1103452053, 1103452054, 1103452055, 1103452056, 1103452068, 1103452069, 1103452070, 1103452071, 1103452072, 1103452073, 1103452074, 1103452075, 1103452076, 1103452077, 1103452078, 1103452079, 1103452080, 1103452081, 1103452082, 1103452083

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color, True	LCS	15.0	*					07/16/2010

Batch	WAT8272
Method	SM20 2120B
Instrument	

Kinnetic Laboratories, Inc. Chain of Custody Record

1103452

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 30 days.	P.O. #: AK10-1005 / KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water | **Preservative:** None, 6°C | **Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
E1-1S	MOA10CLR001	1	7/13/10 0915		
E1-2S	MOA10CLR002	1	0925		
E1-3S	MOA10CLR003	1	0936		
E1-4S	MOA10CLR004	1	0952		
E2-1S	MOA10CLR005	1	1113		
E2-2S	MOA10CLR006	1	1116		
E2-3S	MOA10CLR007	1	1124		
E2-4S	MOA10CLR008	1	1138		
E3-1S	MOA10CLR009	1	1317		
E3-2S (B4A)	MOA10CLR010	1	1326		
E3-3S	MOA10CLR011	1	1343		
E3-4S	MOA10CLR012	1	1402		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15 1703	hand		
			[signature]	7/15/10 1703

SAMPLED BY (NAME/SIGNATURE): _____

TB: 12.6 #202

Kinnetic Laboratories, Inc. Chain of Custody Re

1103452

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 30 days.	P.O. #: AK10-1005 / KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water | **Preservative:** None, 6°C | **Type of Container:** 250 ml HDPE

	SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
15 A	F1-1S	MOA10CLR013	1	7/13/10 1600		
16	F1-2S	MOA10CLR014	1	1640		
17	F1-3S	MOA10CLR015	1	1650		
18	F1-4S	MOA10CLR016	1	1714		
19	F2-1S	MOA10CLR017	1	1748		
20	F2-2S	MOA10CLR018	1	1755		
21	F2-3S	MOA10CLR019	1	1802		
22	F2-4S 85 A	MOA10CLR020	1	1814		
23	F3-1S	MOA10CLR021	1	1930		
24	F3-2S	MOA10CLR022	1	1935		
25	F3-3S	MOA10CLR023	1	1940		
26	F3-4S 86 A	MOA10CLR024	1	1956		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 1703	7/15 1703	hand		
			[signature]	7/15/10 1703

SAMPLED BY (NAME/SIGNATURE): _____

TB: 17.6 # 202

C:\Projects\MOA\MOA10\COC's RW\MOA10_RW_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1005	KLI Proj. #:506.02

ANALYSIS TYPE: Color determination (SM 2120B).

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 250 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
C1-1S (68) A	MOA10CLR025	1	7/14/10 1728		
C1-2S (69) A	MOA10CLR026	1	1738		
C1-3S (70) A	MOA10CLR027	1	1755		
C1-4S (71) A	MOA10CLR028	1	1816		
C2-1S (72) A	MOA10CLR029	1	1850		
C2-2S(A) (73) A	MOA10CLR030	1	1900		
C2-2S(B) (74) A	MOA10CLR031	1	1900		
C2-2S(C) (75) A	MOA10CLR032	1	1900		
C2-3S (76) A	MOA10CLR033	1	1915		
C2-4S (77) A	MOA10CLR034	1	1928		
C3-1S(A) (78) A	MOA10CLR035	1	2034		RUN IN TRIPLICATE
C3-1S(B) (79) A	MOA10CLR036	1	2034		↓
C3-1S(C) (80) A	MOA10CLR037	1	2034		
C3-2S (81) A	MOA10CLR038	1	2048		
C3-3S (82) A	MOA10CLR039	1	2056		
C3-4S (83) A	MOA10CLR040	1	2110		

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7/16/10 0910	[illegible]		
			[illegible]	7/16/10 0910

SAMPLED BY (NAME/SIGNATURE): _____

TB:2.2 #204

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APPENDIX C

Receiving Water Quality Monitoring

C3 Polycyclic Aromatic Hydrocarbons

Texas A&M GERG

RECEIVING WATER, POLYCYCLIC AROMATIC HYDROCARBONS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10PAH001	C65391	F1-1S	HYDROCARBONS	SAMPLE
MOA10PAH002	C65392	F1-2S	HYDROCARBONS	SAMPLE
MOA10PAH003	C65393	F1-3S	HYDROCARBONS	SAMPLE
MOA10PAH004	C65394	C1-1S	HYDROCARBONS	SAMPLE
MOA10PAH005	C65395	C1-2S	HYDROCARBONS	SAMPLE
MOA10PAH006	C65396	C1-3S	HYDROCARBONS	SAMPLE
MOA10PAH007	C65397	EFFLUENT	HYDROCARBONS	SAMPLE

Geochemical and Environmental Research Group (GERG)
833 Graham Rd.
College Station, Texas 77845, U.S.A.
Tel. 979.862.2323
http://gerg.tamu.edu

TEXAS A&M UNIVERSITY

Kinnetic Laboratories
Municipality of Anchorage 2010 Sampling
Case Narrative: PAH
Analytical Report No. K7774

I. Background

Seven water samples were received in duplicate under chain of custody in one sample delivery group on July 16, 2010. Samples were logged in under chain of custody as SDG K7774 and stored at 4°C. One water sample of each duplicate pair was extracted and analyzed for polynuclear aromatic hydrocarbons (PAHs) as requested.

II. Analysis Request

A. Standard Operating Procedures

The water samples were extracted and analyzed following the protocol contained in the following SOP used at GERG:

SOP-0001

Extracting of Water Samples for the Analysis of Organic Compounds Using the Separatory Funnel Technique. Rev. 1 as of March 1, 2000.

SOP-9733

Quantitative Determination Of Polynuclear Aromatic Hydrocarbons By Gas Chromatography/Mass Spectrometry Using The Selected Ion Monitoring Mode. Rev. 3 As of October 16, 1998.

B. SOP Modifications

None needed

II. Quality Control

Calibrations for Aromatic Hydrocarbons

The analytes are calculated using an average response factor based on the form:

$$RRF(n) = \frac{Ax * Cqs}{Aqs * Cx}$$

The deuterated surrogates are calculated using an average response factor based on the form:

$$RRF(m) = \frac{Aqs * Cis}{Ais * Cqs}$$

where:

Ax = sum of the integrated ion abundances of the quantitation ions for unlabeled PAHs,

Aqs = sum of the integrated ion abundances of the quantitation ions for the deuterated quantitation standards,

Ais = sum of the integrated ion abundances of the quantitation ions for the deuterated internal standards,

Cx = concentration of the unlabeled PAH analyte in the calibration solution (ng/mL),

Cqs = concentration of the deuterated quantitation standard in the calibration solution, and

Cqs = concentration of the deuterated internal standard in the calibration solution

Calibration data used in the quantitation of detected analytes met the calibration criteria; no deviations beyond the control limits were observed. All of the calibration standards had average percent deviations less than 15%, and no analyte was greater than 25% deviation.

Example Calculations for Aromatic Hydrocarbons

A. Sample Concentration

The concentration of the target analytes and the recovery of the deuterated quantitation standards are calculated using the following equations:

$$Cx = \frac{Ax * Cqs}{Aqs * \overline{RRF(n)}}$$

$$\% \text{ Recovery} = \frac{Ax * Cis * 100}{Ais * Cqs * \overline{RRF(m)}}$$

where:

Ax = sum of the integrated ion abundances of the quantitation ions for PAHs,

Aqs = sum of the integrated ion abundances of the quantitation ions for the deuterated quantitation standards,

Ais = sum of the integrated ion abundances of the quantitation ions for the deuterated internal standards,

Cx = concentration of the unlabeled PAHs in ng/mL

Cqs = concentration of the deuterated quantitation standard in the calibration solution,

Cis = concentration of the deuterated internal standard in the calibration solution,

$\overline{RRF(n)}$ = mean relative response factor for the unlabeled target analyte relative to its deuterated quantitation, and

$\overline{RRF(m)}$ = mean relative response factor for deuterated quantitation standard relative to its deuterated internal standard.

The sample concentration is calculated using the equation:

$$conc = x * df / wt$$

where:

conc = the concentration of the analyte of the analyte (ng/g);

x = amount of the analyte as found from solving the quadratic equation;

df = dilution factor;

wt = the sample weight in grams wet tissue.

Laboratory Qualifiers

The PAH concentrations are reported in nanograms per liter (ng/L), or parts per trillion. All of the analytical data have been qualified based on the most recent method detection limits determined (Spring 2006). A value of two times the MDL for the parent compound was used for multi-peak concentrations (i.e., MDL for C1-fluorenes is 7.3 ng/L from an MDL of 3.7 ng/L for fluorene based on a 1.0 liter water sample). Concentrations that were less than the MDL are adjusted for sample size and dilution and are qualified "J" and those analytes not detected are qualified "ND". Concentrations that exceeded the calibration limits are qualified "EC". The concentrations that are determined by analyses of a diluted aliquot are qualified "D". If the quantification of an analyte is interfered with by another analyte due to its high concentration the data will be left blank and qualified "I" to denote this interference. Analytes may be found above the three times the detection limits in the blank. These may cause possible contamination in samples that are less than ten times the observed level in the blank. These data are qualified "B" to denote this possible contamination. Measurements that are out of QA limits are qualified as "Q".

The GERG STD Check (REF Oil) is run on the instrument prior to each analytical batch. The sample is a solution of petroleum oil in methylene chloride with a concentration of about 800 mg/milliliter of solution. The GERG STD Check is used to define the retention time windows for the alkylated PAH homologue clusters; it is not a certified reference material.

The PAH concentrations are reported in nanograms per liter (ng/L), or parts per trillion. Analytes that are below the MDL are qualified in the tables as "J". Those analytes

not detected during the analysis are qualified as "ND". Measurements that are out of QA limits are qualified as "Q".

Analytical Difficulties

The recoveries of all surrogates were within the acceptance criteria. No further action was necessary. No analytes were detected greater than 3 times the MDL in the procedural blank. No further action was required. The recoveries for the spike blank and spike blank duplicate for the PAH analysis were within the QC limits. The average recoveries were 84.5% and 86.1%. The average RPD was 8.2. The overall QA objectives were met. No further action was required.

Reviewed and Approved: Terry L. Wade 9/27/10

Terry L. Wade Ph.D.

Interim Director

Sample Integrity Report
& Chains of Custody

Storage Location: _____

GERG SAMPLE RECEIVING/ INTEGRITY REPORT

Date / Time Received: 7/16/10 1030

Project Name / F&W Catalog # Kinnetics Laboratories, Inc.

SDG#: K 7774

Sender: Kinnetics

P.I. : T Wade **Notif. by (Name/Date):** C Starr

1. Number of Shipping Containers: 1

List of Broken Sample Containers:

2. Airbill Present?
No Yes

Shipping Company:
Fedex UPS DHL Other

Airbill Number: Attached

3. Custody Seals on Container?
No Yes Intact Not Intact

Comments:

4. Chain of Custody Records?
No Yes

Comments:

5. General Sample Condition:
Frozen Cool Unrefrigerated
Dry Ice Blue Ice Ice

Temperature(s): 3.5°C

6. Comments:

7. Number of Waters: 14 **Number of Tissues:** _____ **Number of Sediments:** _____
Number of Other: _____ **Total Number of Samples Received:** 7

8. Problems/ Discrepancies:

9. Resolutions:

10. Checked in by: Andy Stone **Date:** 7/16/10

KINNETIC LABORATORIES, INC
KINNETIC LABORATORIES, INC
1102 WEST 7TH AVENUE

ANCHORAGE, AK 99501

FedEx Express

ActWgt: 76.0 LB
CAD: 3116229/INET3060

Delivery Address Bar Code

Ref # MOA 516.02
Invoice #
PO #
Dept #

SHIP TO: (979) 862-2323 BILL SENDER

Dr. Terry Wade
Texas A&M GERG
533 Graham Road

College Station, TX 77845

TRK# 0201 7988 5406 9919

FRI - 16 JUL A4
PRIORITY OVERNIGHT

77845
TX-US
IAH

XH CLLA

After printing this label:
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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Texas A & M GERG 833 Graham Road College Station, TX 77845 Attn: Terry Wade (979) 862-2323 ext 115	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 45 days.	P.O. #: AK10-1009	KLI Proj. #:506.02

ANALYSIS TYPE: Extraction of water for hydrocarbon analysis (GERG SOP-8901); determination of PAH and their alkylated homologues (GERG SOP-9733).

MATRIX: Water	**Preservative:** HCl, 6°C; Station F1 samples contain L-Ascorbic Acid	**Type of Container:** 1L amber nm glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
✓ MOA10PAH001	F1-1S	2	7/13/10 1600		
✓ MOA10PAH002	F1-2S	2	↓ 1640		
✓ MOA10PAH003	F1-3S	2	↓ 1650		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Mona Stam	7/15/10 1100	FedEx	Cindy Stern	7/16/10 1030

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's RW\MOA10_RW_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Texas A & M GERG 833 Graham Road College Station, TX 77845 Attn: Terry Wade (979) 862-2323 ext 115	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 45 days.	P.O. #: AK10-1009 — KLI Proj. #:506.02

ANALYSIS TYPE: Extraction of water for hydrocarbon analysis (GERG SOP-8901); determination of PAH and their alkylated homologues (GERG SOP-9733).

MATRIX: Water | **Preservative:** HCl, 6°C. | **Type of Container:** 1L amber nm glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10PAH004	C1-1S	2	7/14/10 1725		
MOA10PAH005	C1-2S	2	↓ 1738		
MOA10PAH006	C1-3S	2	↓ 1802		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible signature]	7/15/10 1100	Fed-X	Cindy Stark	7/16/10 1030

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA10\COC's RW\MOA10_RW_COC.doc

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:	
Texas A & M GERG 833 Graham Road College Station, TX 77845 Attn: Dr. Guy Denoux (979) 862-2323 ext 115	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1009	KLI Proj. #:506.02

ANALYSIS TYPE: Extraction of water for hydrocarbon analysis (GERG SOP-8901); determination of PAH and their alkylated homologues (GERG SOP-9733).

MATRIX: Water	**Preservative:** ~~HCl, 6°C~~; ~~Station F1 samples contain~~ L-Ascorbic Acid	**Type of Container:** 1L amber nm glass

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10PAH007	Effluent	2	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/14/10 1310	—	hand	[signature]	7/14 1310
[signature]	7/15/10 1100	Fed-X	Cindy Glass	7/16/10 1030

SAMPLED BY (NAME/SIGNATURE): _____

Sample Identification Sheet

Subproject Name : Unknown
Client Name : Kinnetics Laboratories, Inc.
Subproject ID : 20100701
Receive Date : 7/16/2010

Project No:
Due Date: 8/16/2010

PO A :
PO B :
PO C :
PO D :

Gerg ID	Client ID	SDG	Matrix	Sample Description
C65391	MOA10PAH001	K7774	Water	
C65392	MOA10PAH002	K7774	Water	
C65393	MOA10PAH003	K7774	Water	
C65394	MOA10PAH004	K7774	Water	
C65395	MOA10PAH005	K7774	Water	
C65396	MOA10PAH006	K7774	Water	
C65397	MOA10PAH007	K7774	Water	

Total Samples 7

Sample Information Sheet

Subproject Name : Unknown
Client Name : Kinnetics Laboratories, Inc.
Subproject ID : 20100701
Recieve Date : 7/16/2010

Project No:
Due Date: 8/16/2010

PO A :
PO B :
PO C :
PO D :

			FID					ECD			MS				HRMS		LABORATORY									AA				Other				
Gerg ID	Client ID	SDG	TP	AL	CF	WO	HS	OC	AC	TB	AR	VO	BS	BA	CP	DF	SP	DW	PL	OG	GS	AV	TV	CN	CV	AM	PM	FM	IS	BM	FL	TC	UL
C65391	MOA10PAH001	K7774									A						A																
C65392	MOA10PAH002	K7774									A						A																
C65393	MOA10PAH003	K7774									A						A																
C65394	MOA10PAH004	K7774									A						A																
C65395	MOA10PAH005	K7774									A						A																
C65396	MOA10PAH006	K7774									A						A																
C65397	MOA10PAH007	K7774									A						A																
Total Samples	7		0	0	0	0	0	0	0	0	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Aromatic Hydrocarbon

Data

M3647

Kinnetics- Alaska

Client Sample ID	MOA10PAH001	MOA10PAH002	MOA10PAH003	MOA10PAH004
Sample Descriptor				
Original Sample				
GERG ID	C65391	C65392	C65393	C65394
Sample Type	SAMP	SAMP	SAMP	SAMP
SDG	K7774	K7774	K7774	K7774
Dry Weight				
Wet Weight	0.96	0.92	0.98	0.96
Sample Size Units	Liters	Liters	Liters	Liters
Matrix	Water	Water	Water	Water
% solid				
% Lipid				
Reporting Units	ng/L	ng/L	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet	Wet	Wet
QC Batch ID	M3647	M3647	M3647	M3647
Method	GCMS	GCMS	GCMS	GCMS
Collection Date	07/13/10	07/13/10	07/13/10	07/14/10
Receive Date	07/16/10	07/16/10	07/16/10	07/16/10
Extraction Date	08/02/10	08/02/10	08/02/10	08/02/10
Analysis Date	8/14/2010 12:08	8/14/2010 12:51	8/14/2010 1:34	8/14/2010 2:17
Surrogate Compounds	**%Recovery**	**%Recovery**	**%Recovery**	**%Recovery**
d8-Naphthalene	62.3	61.1	69.5	85.1
d10-Acenaphthene	76.7	64.9	74.4	81.9
d10-Phenanthrene	79.8	60.0	73.4	78.6
d12-Chrysene	97.6	80.8	89.5	96.3
d12-Perylene	68.9	48.8	58.4	52.6
Total PAHs	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Total PAHs with Perylene	651.1	114.5	83.9	45.3
Total PAHs without Perylene	648.0	113.2	82.2	43.8
Total NS&T PAHs	352.0	69.1	49.8	27.7

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics- Alaska

Client Sample ID	MOA10PAH001		MOA10PAH002		MOA10PAH003		MOA10PAH004	
Sample Descriptor								
Original Sample								
GERG ID	C65391		C65392		C65393		C65394	
Sample Type	SAMP		SAMP		SAMP		SAMP	
SDG	K7774		K7774		K7774		K7774	
PAH Compounds	**Concentration**		**Concentration**		**Concentration**		**Concentration**	
Naphthalene	40.4		16.2		12.9		7.4	
C1-Naphthalenes	66.1		20.3		13.8		8.0	J
C2-Naphthalenes	63.6		14.4		12.0		5.7	J
C3-Naphthalenes	44.2		7.4		6.2	J	3.4	J
C4-Naphthalenes	32.5		4.0	J	5.3	J	2.1	J
Biphenyl	6.6		3.3		2.2	J	2.2	J
Acenaphthylene	1.5	J	1.3	J	1.4	J	0.5	J
Acenaphthene	24.6		5.5	J	4.7	J	1.9	J
Fluorene	20.7		1.9	J	1.6	J	0.7	J
C1-Fluorenes	14.1		2.5	J	2.0	J	1.2	J
C2-Fluorenes	12.0		1.6	J	1.4	J	1.9	J
C3-Fluorenes	9.5		0.2	J		ND		ND
Phenanthrene	71.4		5.0		4.7		2.1	
Anthracene	6.7		0.6	J	0.3	J	0.1	J
C1-Phenanthrenes/Anthracenes	20.7		2.7	J	2.6	J	1.3	J
C2-Phenanthrenes/Anthracenes	14.3		2.3	J	2.1	J	1.5	J
C3-Phenanthrenes/Anthracenes	8.1		1.7	J	1.9	J	0.9	J
C4-Phenanthrenes/Anthracenes	2.5	J	0.7	J		ND		ND
Dibenzothiophene	6.1		0.7	J	0.6	J	0.3	J
C1-Dibenzothiophenes	9.7		1.3	J	1.0	J		ND
C2-Dibenzothiophenes	6.2		1.0	J		ND		ND
C3-Dibenzothiophenes	4.9			ND		ND		ND
Fluoranthene	27.4		1.9	J	0.9	J	0.5	J
Pyrene	22.7		1.8	J	0.9	J	0.4	J
C1-Fluoranthenes/Pyrenes	11.0		2.1	J		ND		ND
C2-Fluoranthenes/Pyrenes	4.8	J	2.1	J		ND		ND
C3-Fluoranthenes/Pyrenes	3.2	J	2.4	J		ND		ND
Benzo(a)anthracene	5.4		1.7	J	0.7	J	0.7	J
Chrysene	5.8		1.8	J	0.7	J	0.4	J
C1-Chrysenes	7.6			ND		ND		ND
C2-Chrysenes	20.5			ND		ND		ND
C3-Chrysenes	5.8			ND		ND		ND
C4-Chrysenes	31.6			ND		ND		ND
Benzo(b)fluoranthene	3.6	J	0.9	J	0.6	J	0.2	J
Benzo(k)fluoranthene	2.1	J	0.8	J	0.3	J	0.2	J
Benzo(e)pyrene	1.8	J	0.5	J	0.4	J	0.1	J
Benzo(a)pyrene	4.5	J	1.0	J	0.6	J	0.3	J
Perylene	3.1		1.3	J	1.7	J	1.5	J
Indeno(1,2,3-c,d)pyrene	1.3	J	0.6	J		ND		ND
Dibenzo(a,h)anthracene	0.8	J		ND		ND		ND
Benzo(g,h,i)perylene	2.2		1.1	J	0.6	J		ND
2-Methylnaphthalene	39.3		11.5		8.0		4.4	J
1-Methylnaphthalene	26.8		8.8		5.8		3.6	J
2,6-Dimethylnaphthalene	16.1		3.6	J	3.0	J	1.3	J
1,6,7-Trimethylnaphthalene	8.8		1.9	J	1.7	J	0.8	J
1-Methylphenanthrene	28.0		3.0		0.9	J	0.3	J

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics- Alaska

Client Sample ID	MOA10PAH005	MOA10PAH006	MOA10PAH007
Sample Descriptor			
Original Sample			
GERG ID	C65395	C65396	C65397
Sample Type	SAMP	SAMP	SAMP
SDG	K7774	K7774	K7774
Dry Weight			
Wet Weight	0.97	0.98	0.92
Sample Size Units	Liters	Liters	Liters
Matrix	Water	Water	Water
% solid			
% Lipid			
Reporting Units	ng/L	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet	Wet
QC Batch ID	M3647	M3647	M3647
Method	GCMS	GCMS	GCMS
Collection Date	07/14/10	07/14/10	07/14/10
Receive Date	07/16/10	07/16/10	07/16/10
Extraction Date	08/02/10	08/02/10	08/02/10
Analysis Date	8/14/2010 3:00	8/14/2010 3:43	8/14/2010 4:27
Surrogate Compounds	**%Recovery**	**%Recovery**	**%Recovery**
d8-Naphthalene	91.0	87.7	45.4
d10-Acenaphthene	86.1	84.8	70.0
d10-Phenanthrene	83.4	79.0	84.2
d12-Chrysene	96.0	95.9	88.9
d12-Perylene	56.7	61.7	60.8
Total PAHs	**Concentration**	**Concentration**	**Concentration**
Total PAHs with Perylene	53.3	68.8	5194.8
Total PAHs without Perylene	52.3	67.9	5179.7
Total NS&T PAHs	29.8	45.1	2557.8

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics- Alaska

Client Sample ID	MOA10PAH005		MOA10PAH006		MOA10PAH007
Sample Descriptor					
Original Sample					
GERG ID	C65395		C65396		C65397
Sample Type	SAMP		SAMP		SAMP
SDG	K7774		K7774		K7774
PAH Compounds	**Concentration**		**Concentration**		**Concentration**
Naphthalene	6.8		11.7		215.4
C1-Naphthalenes	7.1	J	17.1		383.0
C2-Naphthalenes	5.6	J	10.7		403.4
C3-Naphthalenes	3.9	J	5.2	J	348.7
C4-Naphthalenes	2.2	J	2.8	J	278.2
Biphenyl	1.7	J	3.2		34.4
Acenaphthylene	0.9	J	0.4	J	7.4
Acenaphthene	1.7	J	1.6	J	112.8
Fluorene	1.0	J	1.1	J	141.4
C1-Fluorenes	1.4	J		ND	112.6
C2-Fluorenes	1.0	J	1.1	J	148.5
C3-Fluorenes		ND		ND	148.3
Phenanthrene	2.9		2.8		606.0
Anthracene	0.2	J	0.2	J	70.8
C1-Phenanthrenes/Anthracenes	2.0	J	1.9	J	200.5
C2-Phenanthrenes/Anthracenes	1.8	J	1.5	J	131.0
C3-Phenanthrenes/Anthracenes		ND	1.4	J	126.7
C4-Phenanthrenes/Anthracenes		ND		ND	27.7
Dibenzothiophene	0.4	J	0.4	J	45.5
C1-Dibenzothiophenes	0.8	J	0.8	J	65.2
C2-Dibenzothiophenes		ND		ND	49.8
C3-Dibenzothiophenes		ND		ND	42.6
Fluoranthene	1.1	J	0.6	J	357.4
Pyrene	0.9	J	0.5	J	286.9
C1-Fluoranthenes/Pyrenes	1.3	J		ND	133.9
C2-Fluoranthenes/Pyrenes	1.3	J		ND	66.1
C3-Fluoranthenes/Pyrenes	0.7	J		ND	34.8
Benzo(a)anthracene	0.7	J	0.7	J	78.0
Chrysene	1.2	J	0.4	J	68.0
C1-Chrysenes		ND		ND	75.8
C2-Chrysenes		ND		ND	91.4
C3-Chrysenes		ND		ND	55.9
C4-Chrysenes		ND		ND	59.2
Benzo(b)fluoranthene	0.8	J	0.6	J	57.6
Benzo(k)fluoranthene	0.4	J	0.2	J	18.2
Benzo(e)pyrene	0.5	J	0.3	J	20.7
Benzo(a)pyrene	0.8	J	0.3	J	41.0
Perylene	1.0	J	0.9	J	15.1
Indeno(1,2,3-c,d)pyrene	0.4	J		ND	16.4
Dibenzo(a,h)anthracene	0.1	J		ND	3.3
Benzo(g,h,i)perylene	0.7	J	0.4	J	15.2
2-Methylnaphthalene	4.1	J	9.7		231.0
1-Methylnaphthalene	3.0	J	7.4		152.0
2,6-Dimethylnaphthalene	1.6	J	3.1	J	80.0
1,6,7-Trimethylnaphthalene	1.2	J	1.4	J	53.5
1-Methylphenanthrene	0.6	J	0.6	J	43.5

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Aromatic Hydrocarbon

QC Data

M3647

Kinnetics- Alaska

Client Sample ID				
Sample Descriptor	Proc Blank	Blank Spike	Blank Spike Dup	
Original Sample				
GERG ID	Q25195	Q25196	Q25197	
Sample Type	BLANK	LBS	LBSD	MSDRPD
SDG				
Dry Weight				
Wet Weight	1.00	1.00	1.00	
Sample Size Units	Liters	Liters	Liters	
Matrix	Water	Water	Water	**%RPD**
% solid				
% Lipid				
Reporting Units	ng/L	%	%	
Calculation Basis (dry/wet)	Wet	Wet	Wet	
QC Batch ID	M3647	M3647	M3647	
Method	GCMS	GCMS	GCMS	
Collection Date				
Receive Date				
Extraction Date	08/02/10	08/02/10	08/02/10	
Analysis Date	8/13/2010 21:58	8/13/2010 22:41	8/13/2010 23:24	
Surrogate Compounds	**% Recovery**	**% Recovery**	**% Recovery**	
d8-Naphthalene	62.9	61.7	53.3	
d10-Acenaphthene	80.7	74.6	76.5	
d10-Phenanthrene	71.4	77.0	68.4	
d12-Chrysene	106.7	118.0	108.2	
d12-Perylene	47.5	51.0	53.8	
Total PAHs	**Concentration**	**Concentration**	**Concentration**	
Total PAHs with Perylene	4.3	NA	NA	
Total PAHs without Perylene	4.3	NA	NA	
Total NS&T PAHs	4.3	NA	NA	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics- Alaska

Client Sample ID					
Sample Descriptor	Proc Blank		Blank Spike	Blank Spike Dup	
Original Sample					
GERG ID	Q25195		Q25196	Q25197	
Sample Type	BLANK		LBS	LBSD	MSDRPD
SDG					
PAH Compounds	**Concentration**		**% Recovery**	**% Recovery**	**RPD**
Naphthalene	2.5	J			
C1-Naphthalenes	1.7	J			
C2-Naphthalenes		ND			
C3-Naphthalenes		ND			
C4-Naphthalenes		ND			
Biphenyl		ND	66.0	57.3	14.0
Acenaphthylene		ND	95.1	94.8	0.4
Acenaphthene		ND	103.1	79.4	26.0
Fluorene		ND	98.5	97.2	1.3
C1-Fluorenes		ND			
C2-Fluorenes		ND			
C3-Fluorenes		ND			
Phenanthrene		ND	90.5	96.5	6.4
Anthracene		ND	85.3	92.7	8.3
C1-Phenanthrenes/Anthracenes		ND			
C2-Phenanthrenes/Anthracenes		ND			
C3-Phenanthrenes/Anthracenes		ND			
C4-Phenanthrenes/Anthracenes		ND			
Dibenzothiophene		ND	87.3	93.0	6.3
C1-Dibenzothiophenes		ND			
C2-Dibenzothiophenes		ND			
C3-Dibenzothiophenes		ND			
Fluoranthene		ND	76.1	75.1	1.4
Pyrene		ND	71.6	71.5	0.1
C1-Fluoranthenes/Pyrenes		ND			
C2-Fluoranthenes/Pyrenes		ND			
C3-Fluoranthenes/Pyrenes		ND			
Benzo(a)anthracene		ND	83.9	98.0	15.5
Chrysene		ND	82.9	96.8	15.4
C1-Chrysenes		ND			
C2-Chrysenes		ND			
C3-Chrysenes		ND			
C4-Chrysenes		ND			
Benzo(b)fluoranthene		ND	68.3	76.4	11.2
Benzo(k)fluoranthene		ND	77.5	74.1	4.4
Benzo(e)pyrene		ND	55.3	64.8	15.8
Benzo(a)pyrene		ND	61.4	72.4	16.4
Perylene		ND	107.2	111.9	4.3
Indeno(1,2,3-c,d)pyrene		ND	62.8	64.8	3.1
Dibenzo(a,h)anthracene		ND	96.9	92.6	4.5
Benzo(g,h,i)perylene		ND	62.3	70.1	11.7
2-Methylnaphthalene	1.1	J	101.3	103.3	2.0
1-Methylnaphthalene	0.7	J	100.7	104.7	3.9
2,6-Dimethylnaphthalene		ND	105.2	86.0	20.0
1,6,7-Trimethylnaphthalene		ND	92.6	92.2	0.5
1-Methylphenanthrene		ND	96.9	100.8	3.9
			84.5	**86.1**	**8.2** **Avg.**

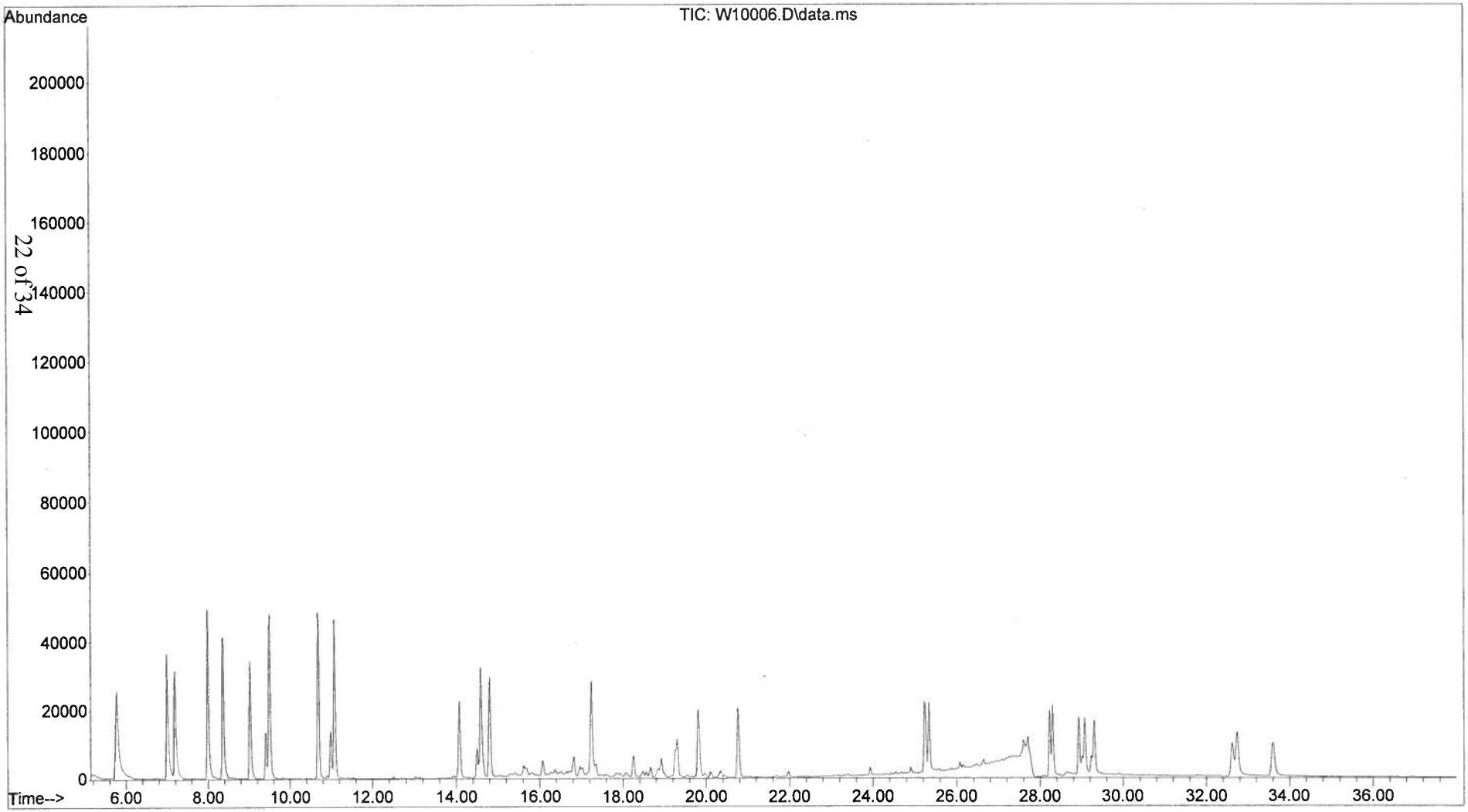
ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Total Ion Chromatograms
For PAH Analyses

Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : W10006.D
Acq On : 13 Aug 2010 5:39 pm
Operator : Mackan
Sample : CAL 250
Misc :
ALS Vial : 3 Sample Multiplier: 1

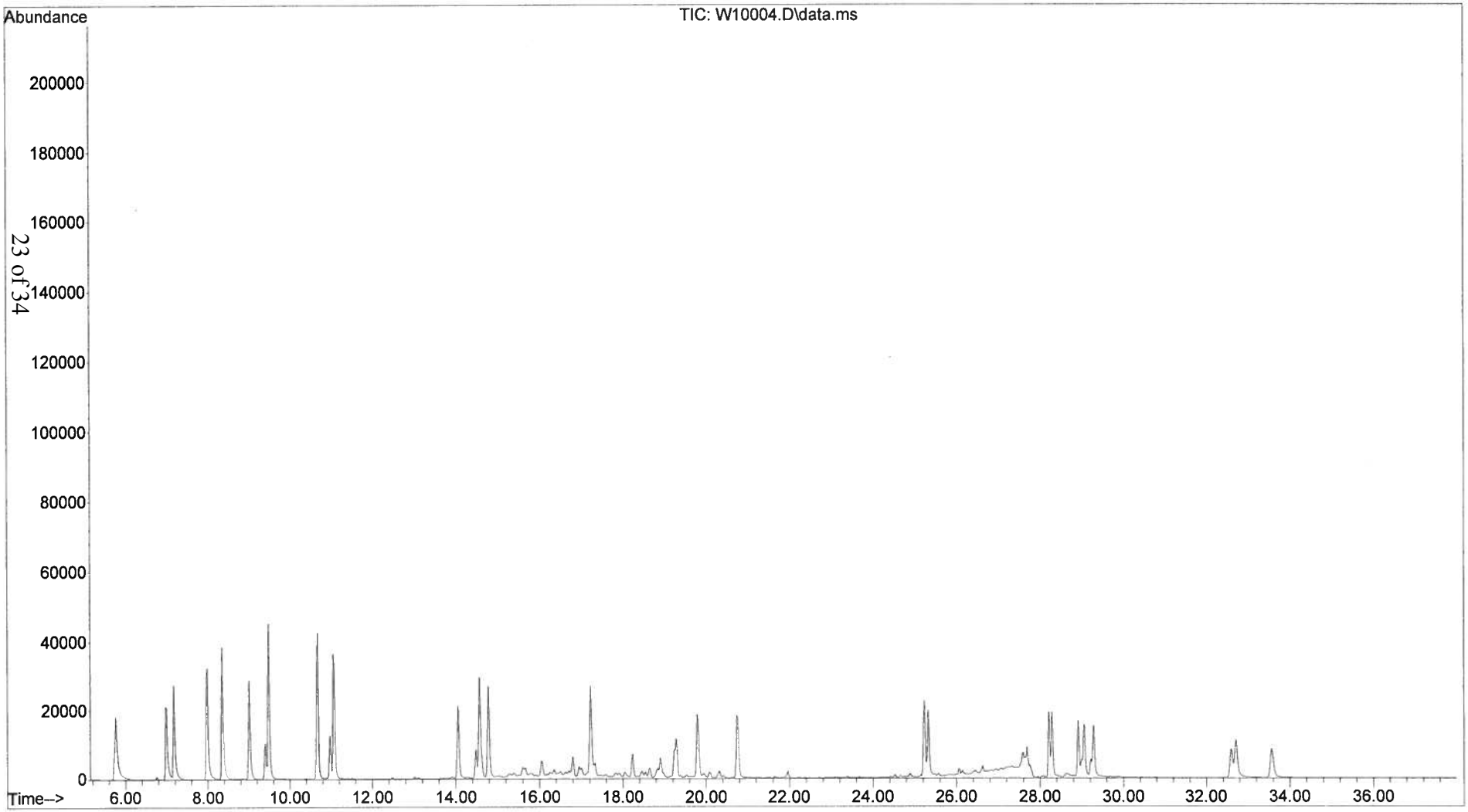
Quant Time: Sep 26 16:09:05 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : W10004.D
Acq On : 14 Aug 2010 2:31 pm
Operator : Mackan
Sample : CAL 250
Misc :
ALS Vial : 3 Sample Multiplier: 1

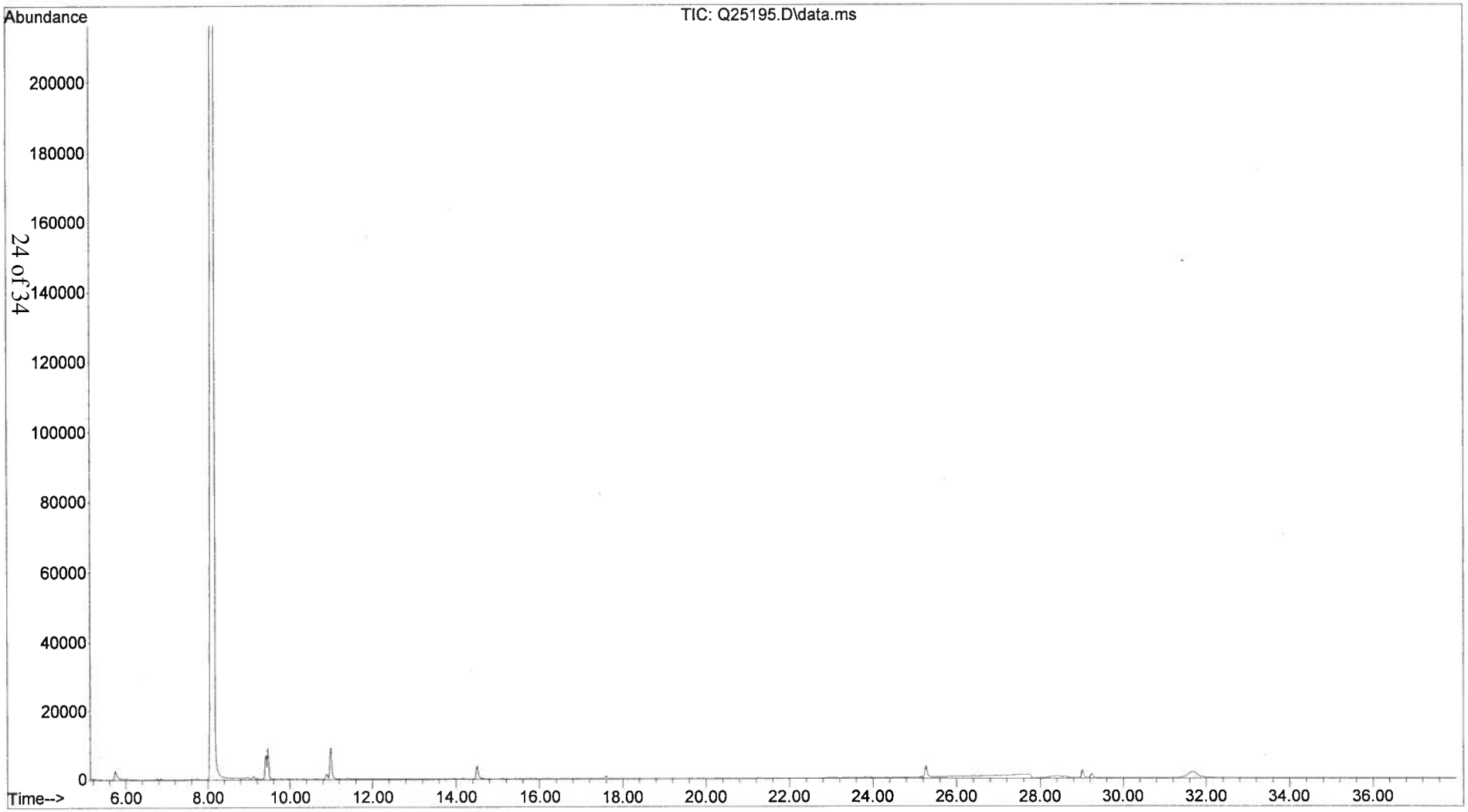
Quant Time: Sep 26 16:01:43 2010
Quant Method : E:\MSDCHEM\1\METHODS\AR9169M9.M
Quant Title : PAH Calibration File
QLast Update : Wed Apr 28 15:07:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : Q25195.D
Acq On : 13 Aug 2010 9:58 pm
Operator : Mackan
Sample : BLANK
Misc : M3647
ALS Vial : 4 Sample Multiplier: 1

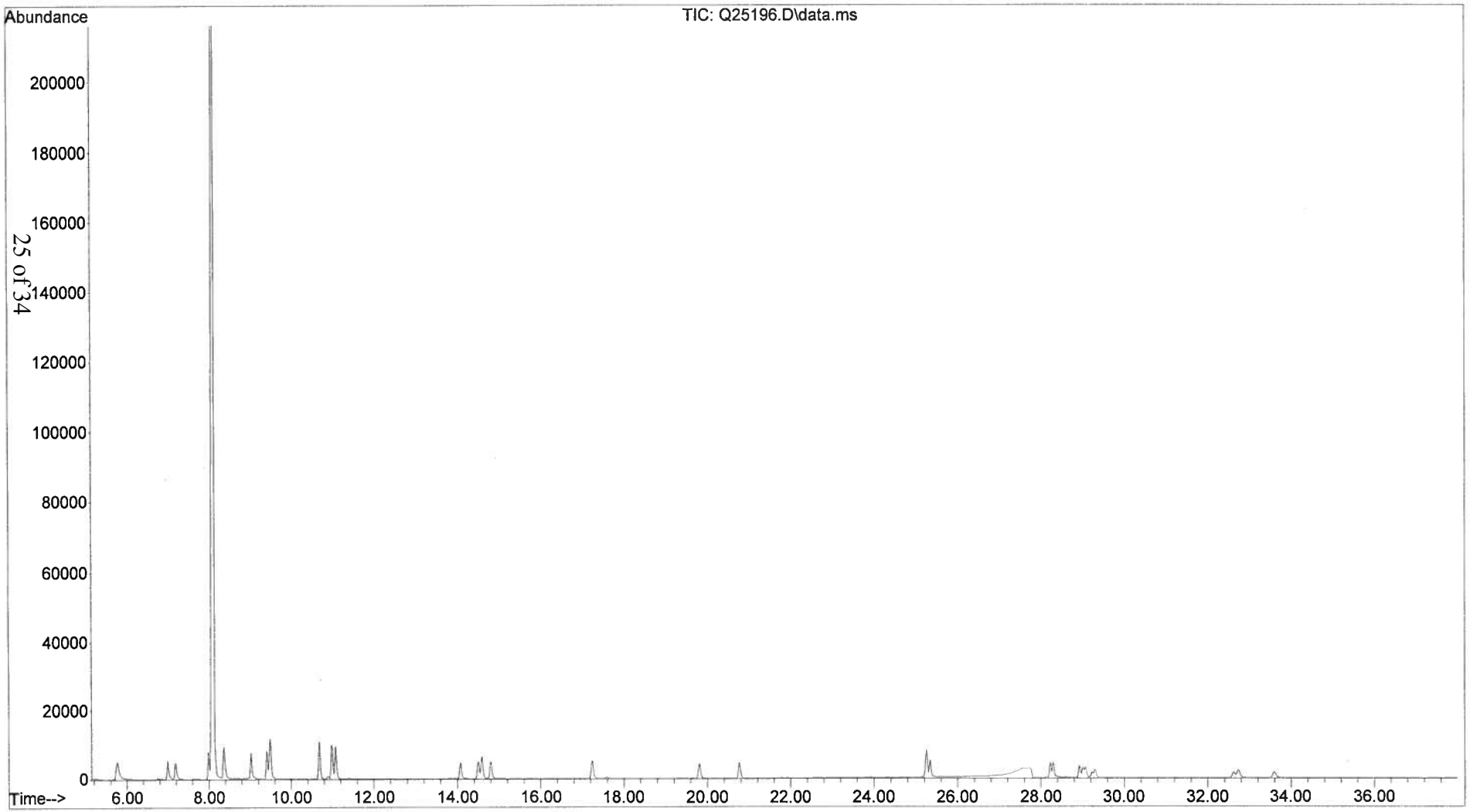
Quant Time: Sep 26 16:13:51 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : Q25196.D
Acq On : 13 Aug 2010 10:41 pm
Operator : Mackan
Sample : LBS
Misc : M3647
ALS Vial : 5 Sample Multiplier: 1

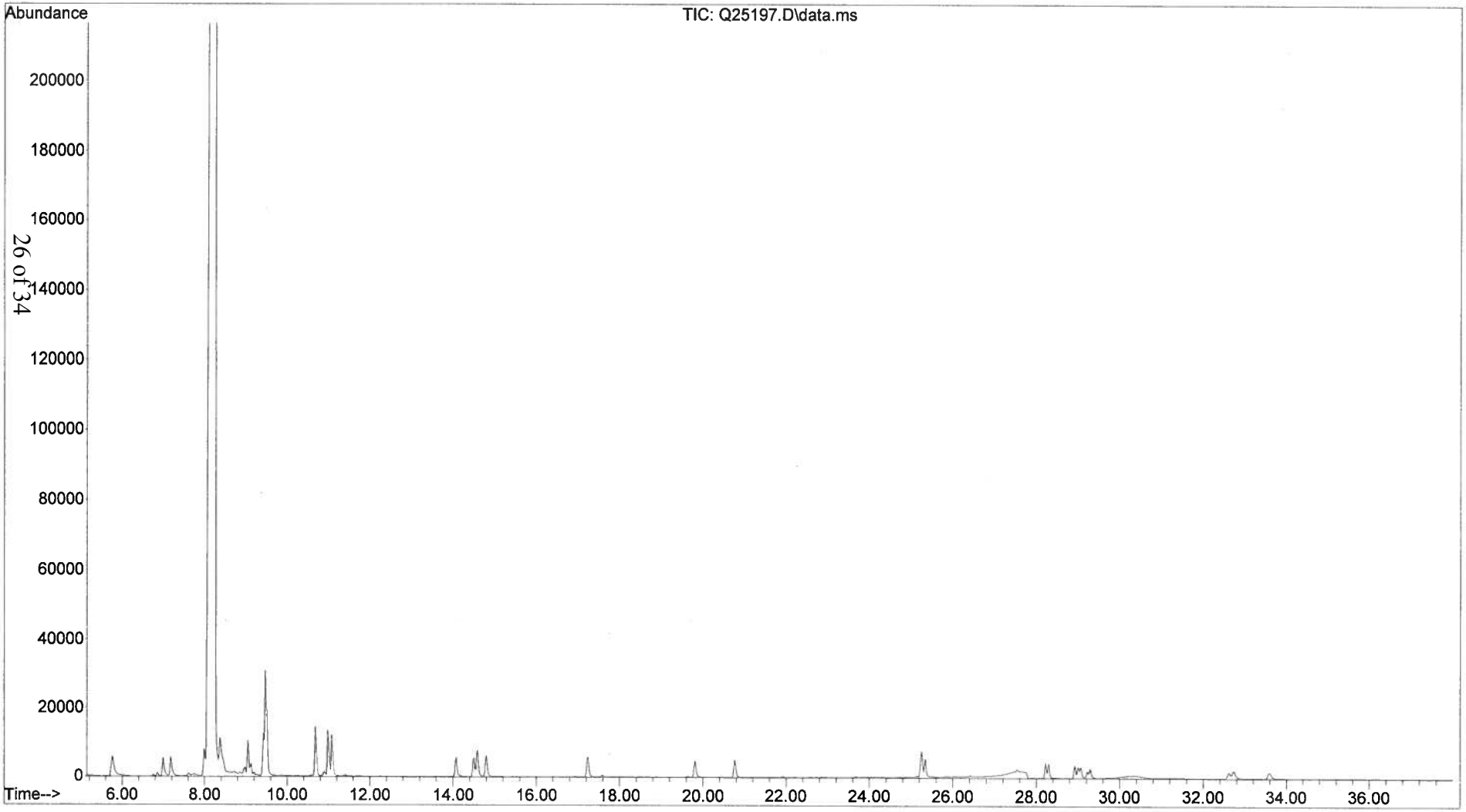
Quant Time: Sep 26 19:09:44 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : Q25197.D
Acq On : 13 Aug 2010 11:24 pm
Operator : Mackan
Sample : LBSD
Misc : M3647
ALS Vial : 6 Sample Multiplier: 1

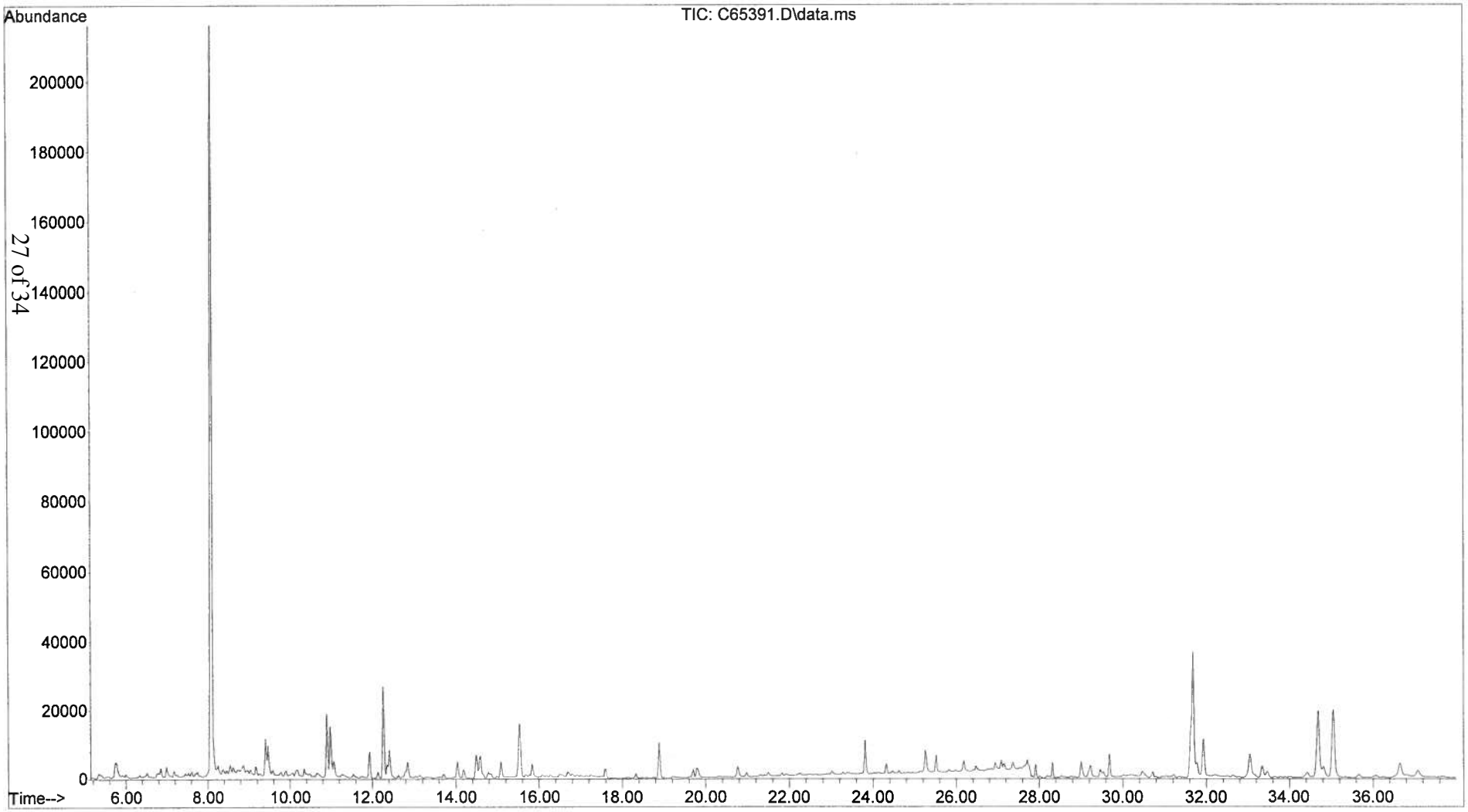
Quant Time: Sep 26 16:32:41 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65391.D
Acq On : 14 Aug 2010 12:08 am
Operator : Mackan
Sample : MOA10PAH001
Misc : M3647
ALS Vial : 7 Sample Multiplier: 1.04167

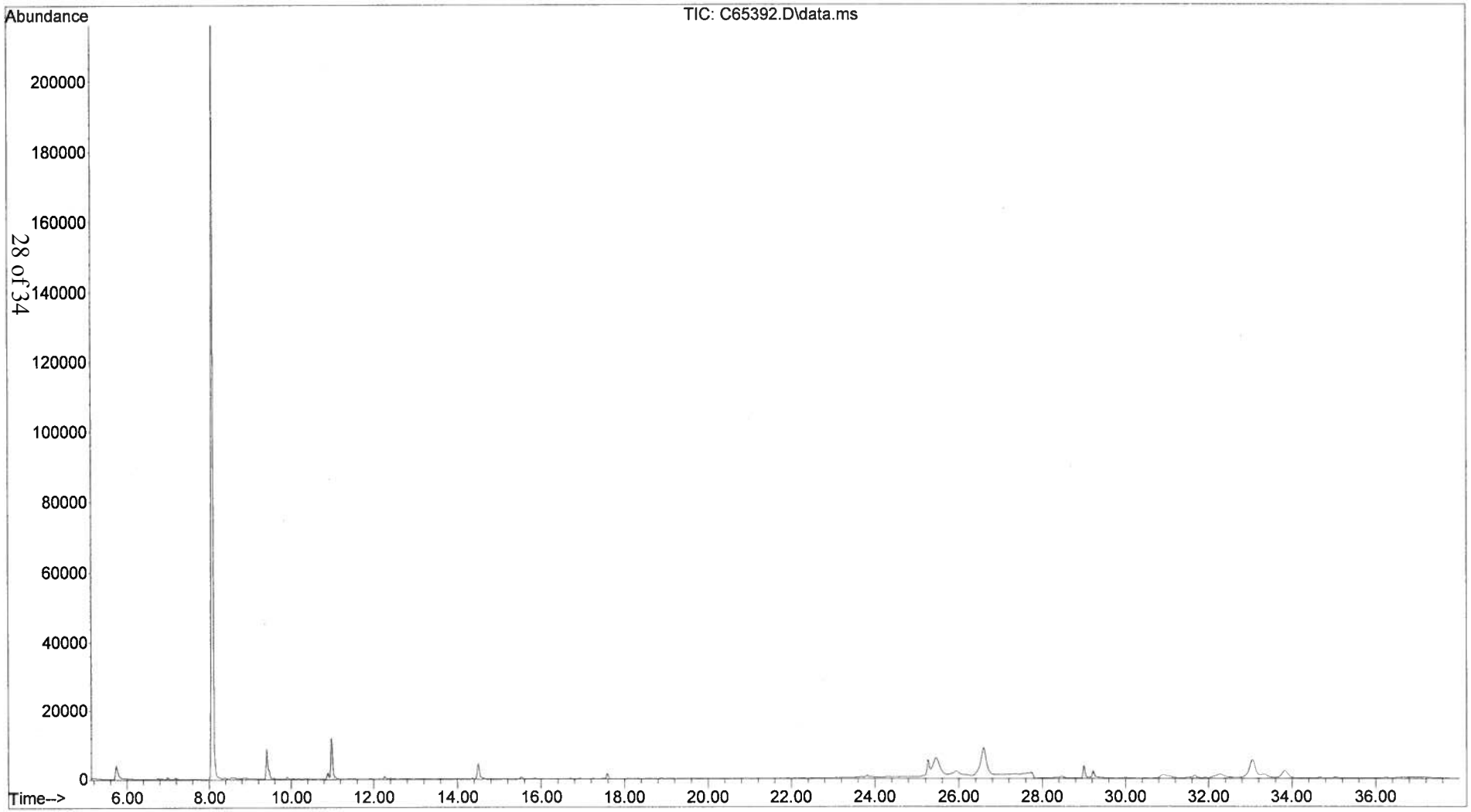
Quant Time: Sep 26 16:53:06 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65392.D
Acq On : 14 Aug 2010 12:51 am
Operator : Mackan
Sample : MOA10PAH002
Misc : M3647
ALS Vial : 8 Sample Multiplier: 1.08696

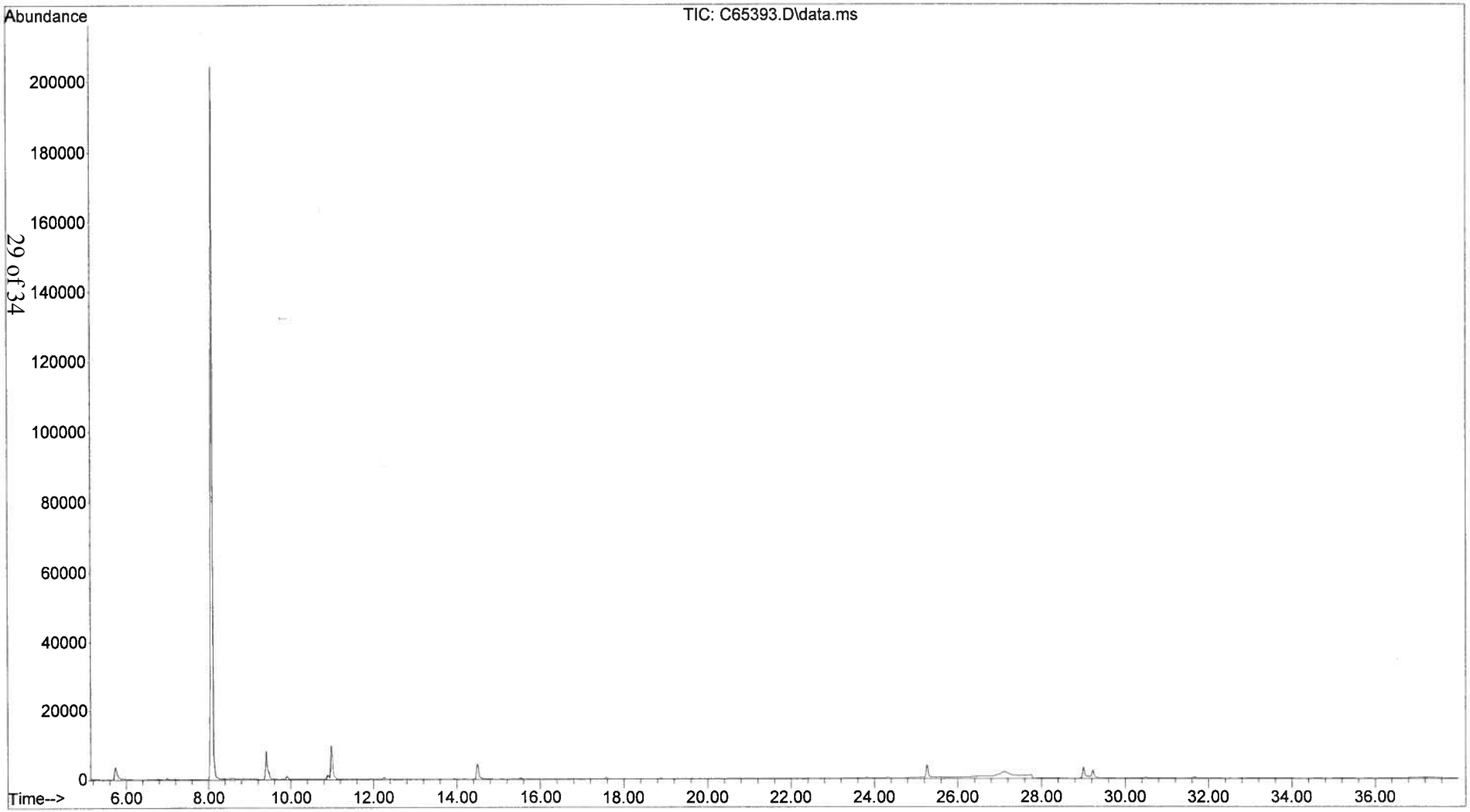
Quant Time: Sep 26 19:03:09 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65393.D
Acq On : 14 Aug 2010 1:34 am
Operator : Mackan
Sample : MOA10PAH003
Misc : M3647
ALS Vial : 9 Sample Multiplier: 1.02041

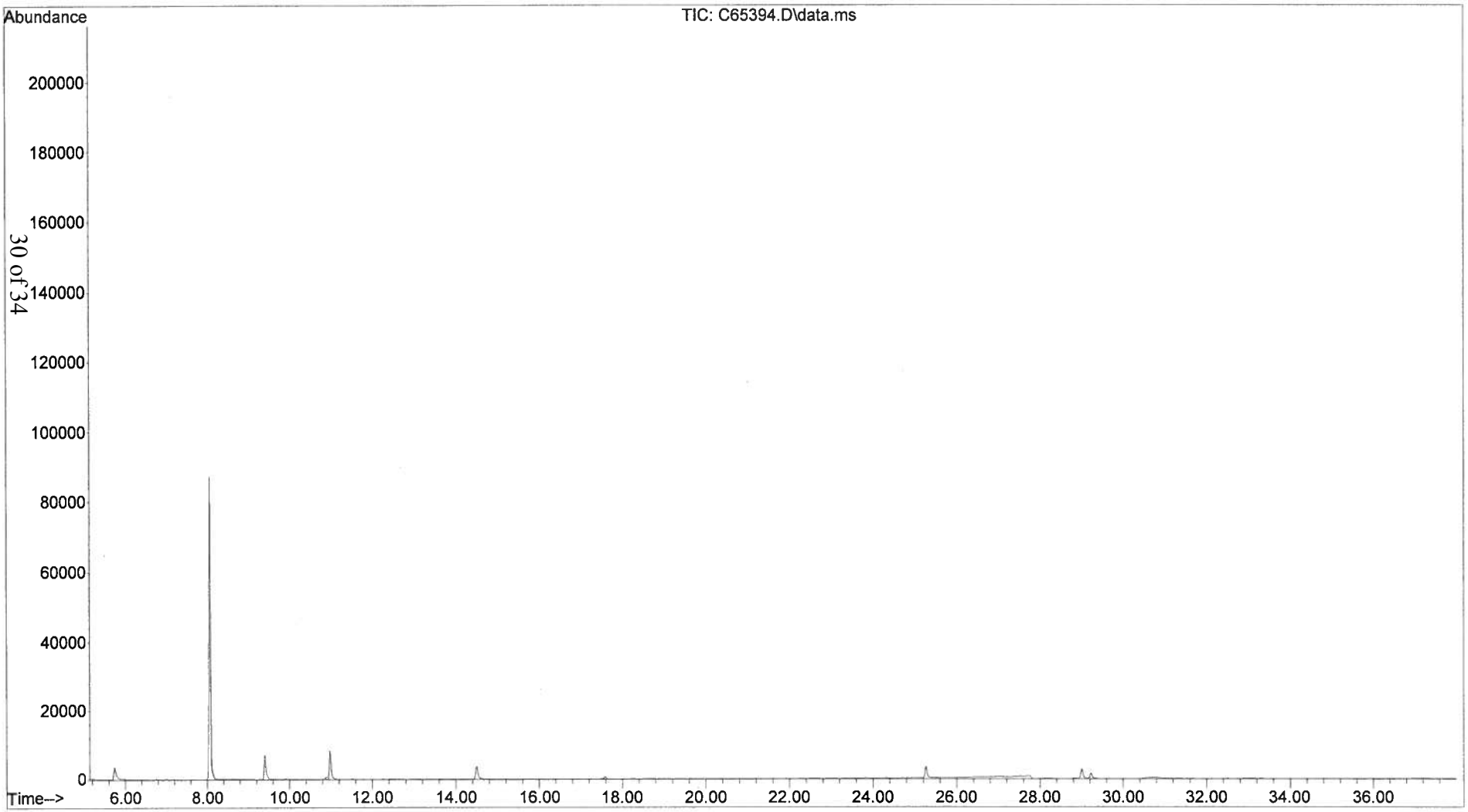
Quant Time: Sep 26 19:03:36 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65394.D
Acq On : 14 Aug 2010 2:17 am
Operator : Mackan
Sample : MOA10PAH004
Misc : M3647
ALS Vial : 10 Sample Multiplier: 1.04167

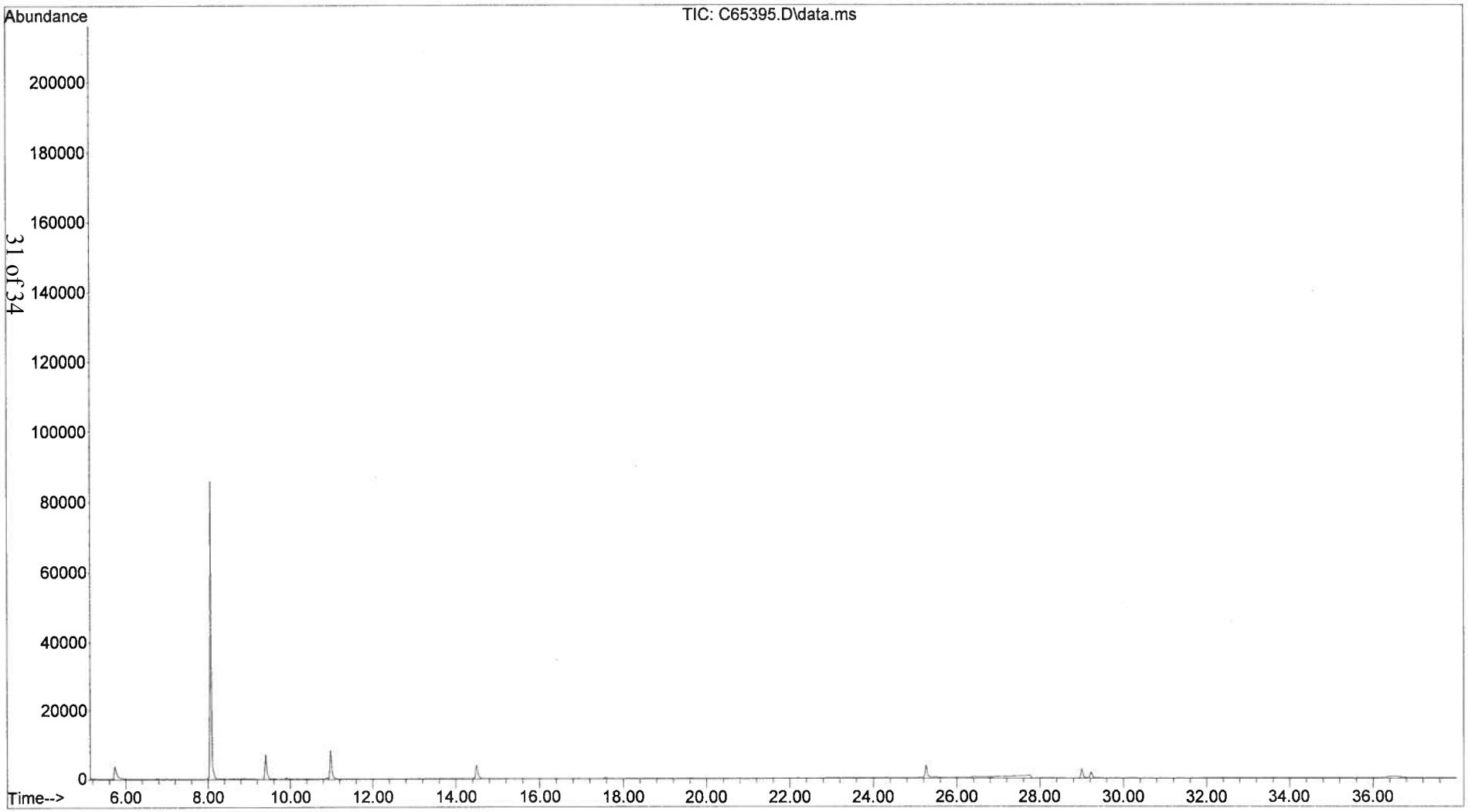
Quant Time: Sep 26 19:04:01 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65395.D
Acq On : 14 Aug 2010 3:00 am
Operator : Mackan
Sample : MOA10PAH005
Misc : M3647
ALS Vial : 11 Sample Multiplier: 1.03093

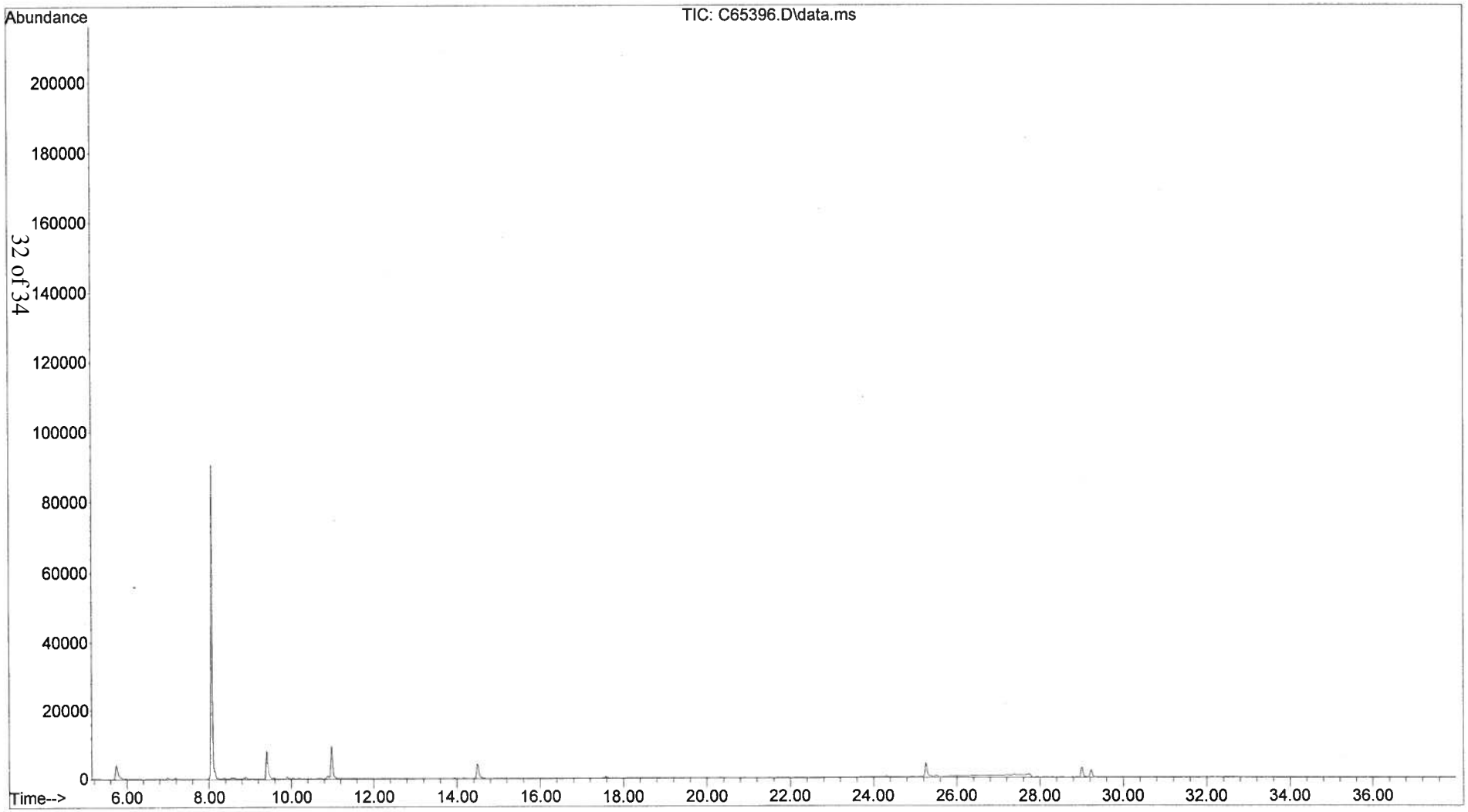
Quant Time: Sep 26 19:04:29 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65396.D
Acq On : 14 Aug 2010 3:43 am
Operator : Mackan
Sample : MOA10PAH006
Misc : M3647
ALS Vial : 12 Sample Multiplier: 1.02041

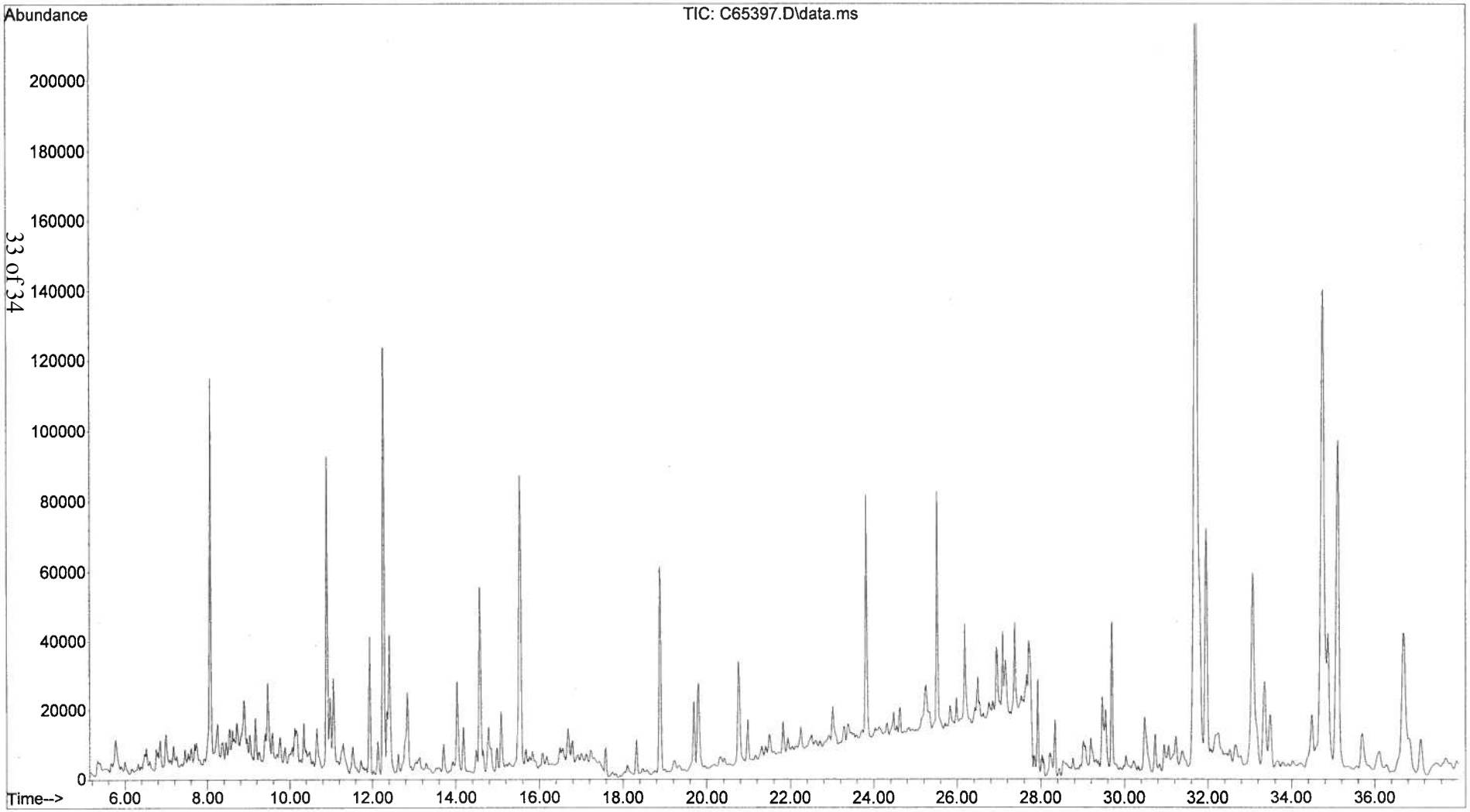
Quant Time: Sep 26 19:04:57 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : E:\msdchem\1\DATA\M3647AR\
Data File : C65397.D
Acq On : 14 Aug 2010 4:27 am
Operator : Mackan
Sample : MOA10PAH007
Misc : M3647
ALS Vial : 13 Sample Multiplier: 1.08696

Quant Time: Sep 26 19:07:43 2010
Quant Method : E:\msdchem\1\METHODS\AR9169M9b.M
Quant Title : PAH Calibration File
QLast Update : Fri Sep 24 14:25:36 2010
Response via : Initial Calibration



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of this report

APPENDIX C

Receiving Water Quality Monitoring

C4 Trace Metals

Battelle

RECEIVING WATER, TRACE METALS

SAMPLE ID NUMBER	LAB SAMPLE ID NUMBER	SAMPLE LOCATION	ANALYSIS TYPE	SAMPLE TYPE
MOA10MTL001	1672*107	F1-1S	METALS	SAMPLE
MOA10MTL002	1672*108	F1-2S	METALS	SAMPLE
MOA10MTL003	1672*109	F1-3S	METALS	SAMPLE
MOA10MTL004	1672*115	C1-1S	METALS	SAMPLE
MOA10MTL005	1672*116	C1-2S	METALS	SAMPLE
MOA10MTL006	1672*117	C1-3S	METALS	SAMPLE
MOA10MTL007	1672*110	EFFLUENT	METALS	SAMPLE

Battelle
The Business of Innovation

August 5, 2009

Mr. Gary Lawley
Kinnetic Laboratories, Inc.
Oceanographic and Environmental Consulting
Alaska Regional Office
1102 West 7th Avenue
Anchorage, AK 99501

Dear Gary:

Enclosed are final results for trace metals in seawater and effluent samples received from Kinnetic Laboratories on July 15 and 16, 2010. Samples were received in good condition with cooler temperatures of 5.2 and 3.5°C. Half of each sample was filtered and all samples were subsequently acidified. Chromium, Ni, Cu, Zn, Ag, Cd, and Pb in seawater samples were pre-concentrated (FePd) prior to analysis by inductively coupled plasma mass spectroscopy (ICP/MS). The total effluent sample for these metals was prepped for total recoverable metals, while the dissolved sample was analyzed direct without a prep step. Mercury and As were determined in seawater and effluent samples by cold vapor atomic fluorescence (CVAF) and flow injection analysis system with hydride generation atomic absorption spectroscopy (FIAS), respectively.

Zinc, Cu and Pb were detected in the Fe/Pd blank at concentrations less than 5x the MDL. Chromium and Zn were detected in the TRM blank at concentrations less than 5x the MDL. Other metals were undetected in the Fe/Pd and TRM blanks. All metals were undetected in the direct analyzed sample. Reported Standard Reference Material (SRM) results were within the acceptable criteria of ±25% for all metals. Matrix spikes and duplicate results were within our default criteria of ±25%. Sample results were not blank corrected. I have sent an Excel file containing the data via email for your convenience.

A cost breakdown has been included with these data and appears in Tables 1 and 2. An invoice will be sent to you under separate cover. If you have any questions or comments concerning the data, please don't hesitate to contact me at 360-681-3627 or email: l.moats@pnl.gov at anytime. These samples will be disposed of on August 31, 2010, unless otherwise advised by you.

Sincerely,

Linda S. Bingler Moats
Senior Research Scientist

Enc.

BATTELLE MARINE SCIENCES LABORATORY
1529 W. Sequim Bay Road
Sequim, WA 98382
(360) 683-4151
(cf#1672)

KINNETICS

12/1/10

CONCENTRATIONS OF METALS IN SEAWATER and EFFLUENT SAMPLES
Samples Received: 07/15-16/10
(concentrations in μg/L - not blank corrected)

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag ICP/MS	Cd ICP/MS	Pb ICP/MS	Hg CVAF
SAMPLE RESULTS													
1672*107		MOA10MTL001	Fe/Pd	Total	5.41	8.17	18.4	32.5	5.29	0.163	0.132	2.62	0.0550
1672*108		MOA10MTL002	Fe/Pd	Total	11.6	13.9	24.1	37.4	8.60	0.102	0.153	7.21	0.0520
1672*109		MOA10MTL003	Fe/Pd	Total	11.4	13.3	22.9	34.7	8.20	0.0910	0.136	6.79	0.0418
1672*110		MOA10MTL007	TRM	Total	3.00	4.59	85.5	115	1.86	0.158	0.370	2.10	0.122
1672*111		MOA10MTL001	Fe/Pd	Dissolved	0.188	1.10	6.95	5.61	1.84	0.00614	0.0822	0.0266	0.00138
1672*112		MOA10MTL002	Fe/Pd	Dissolved	0.188	0.842	1.36	0.464	1.58	0.00231	0.0585	0.00286	0.000383
1672*113		MOA10MTL003	Fe/Pd	Dissolved	0.311	0.834	1.18	0.449	1.62	0.00258	0.0536	0.00389	0.00555
1672*114		MOA10MTL007	Direct	Dissolved	2.61	3.83	37.9	65.4	1.50	0.106	0.121	0.325	0.0232
1672*115		MOA10MTL004	Fe/Pd	Total	10.2	12.3	19.9	30.9	7.21	0.0903	0.120	5.42	0.0448
1672*116		MOA10MTL005	Fe/Pd	Total	16.6	19.7	33.5	50.7	10.8	0.145	0.175	9.88	0.0824
1672*117		MOA10MTL006	Fe/Pd	Total	15.3	16.2	26.5	41.8	8.89	0.105	0.146	7.77	0.0517
1672*118		MOA10MTL004	Fe/Pd	Dissolved	0.175	0.760	0.723	0.341	1.45	0.002 U	0.0462	0.00178	0.000642
1672*119		MOA10MTL005	Fe/Pd	Dissolved	0.250	0.868	0.851	0.450	1.40	0.00274	0.0512	0.00248	0.00739
1672*120		MOA10MTL006	Fe/Pd	Dissolved	0.239	0.866	0.813	3.53	1.44	0.00383	0.0514	0.00334	0.000243
PROCEDURAL BLANK			**Fe/Pd**	**Total/Diss**	0.055 U	0.026 U	0.0630	0.121	NA	0.002 U	0.002 U	0.00126	NA
			Direct	**Dissolved**	0.059 U	0.008 U	0.004 U	0.032 U	0.008 U	0.004 U	0.004 U	0.003 U	0.00010 U
			TRM	**Total**	0.151	0.005 U	0.007 U	0.0648	0.027 U	0.002 U	0.004 U	0.002 U	0.00010 U
METHOD DETECTION LIMIT			**Fe/Pd**	**Total/Diss**	**0.055**	**0.026**	**0.023**	**0.042**	**NA**	**0.002**	**0.002**	**0.001**	**NA**
			Direct	**Dissolved**	**0.059**	**0.008**	**0.004**	**0.032**	**0.008**	**0.004**	**0.004**	**0.003**	**0.00010**
			TRM	**Total**	**0.080**	**0.005**	**0.007**	**0.051**	**0.027**	**0.002**	**0.004**	**0.002**	**0.00010**
STANDARD REFERENCE MATERIAL													
1640			TRM	Total	39.2	28.3	88.8	56.4	56.9 *	7.23	22.4	27.0	NA
1640			Direct	Dissolved	37.8	27.1	85.2	55.2	56.9 *	7.19	22.6	27.7	NA
1640		certified value			38.6	27.4	85.2	53.2	60.5 *	7.62	22.8	27.9	NC
1640		range			±1.6	±0.8	±1.2	±1.1	±0.72 *	±0.25	±0.96	±0.14	NC
1640		**% difference**	**TRM**	**Total**	**1%**	**3%**	**4%**	**6%**	**6%**	**5%**	**2%**	**3%**	NA
1640		**% difference**	**Direct**	**Dissolved**	**2%**	**1%**	**0%**	**4%**	**6%**	**6%**	**1%**	**1%**	**N/A**

*1643e

BATTELLE MARINE SCIENCES LABORATORY
1529 W. Sequim Bay Road
Sequim, WA 98382
(360) 683-4151
(cf#1672)

KINNETICS
CONCENTRATIONS OF METALS IN SEAWATER and EFFLUENT SAMPLES
Samples Received: 07/15-16/10
(concentrations in μg/L - not blank corrected)

12/1/10

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag ICP/MS	Cd ICP/MS	Pb ICP/MS	Hg CVAF
STANDARD REFERENCE MATERIAL, cont.													
CASS-5			Fe/Pd		NA	0.358	0.369	NA	1.07 **	NA	NA	0.0112	NA
CASS-5		certified value			NA	0.330	0.380	NA	1.11 **	NC	NA	0.0110	NA
CASS-5		range			NA	±0.023	±0.055	NA	±0.16 **	NC	NA	±0.002	NA
		% difference			**N/A**	**9%**	**3%**	**N/A**	**4%**	**N/A**	**N/A**	**2%**	**N/A**
**CASS-4													
SLEW-2			Fe/Pd		0.178	NA	NA	1.10	NA	NA	0.0198	NA	NA
SLEW-2		certified value			0.169	NA	NA	1.10	NA	NC	0.0190	NA	NA
SLEW-2		range			±0.018	NA	NA	±0.14	NA	NC	±0.002	NA	NA
		% difference			**5%**	**N/A**	**N/A**	**0%**	**N/A**	**N/A**	**4%**	**N/A**	**N/A**
1641d			Total		NA	NA	NA	NA	NA	NA	NA	NA	1609
1641d		certified value			NC	NC	NC	NC	NC	NC	NC	NC	1590
1641d		range			NC	NC	NC	NC	NC	NC	NC	NC	±18.0
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1%**
LOW LEVEL STANDARD (Supports Effluent analysis only)													
		Amount Spiked			0.100	0.100	0.100	0.100	NA	0.100	0.100	0.100	NA
		Amount Recovered			0.114	0.104	0.104	0.0960	NA	0.104	0.105	0.107	NA
		Percent Recovery			**114%**	**104%**	**104%**	**96%**	**N/A**	**104%**	**105%**	**107%**	**N/A**
HIGH LEVEL STANDARD (Supports Effluent analysis only)													
		Amount Spiked			400	400	400	400	NA	0.300	400	400	NA
		Amount Recovered			384	382	390	387	NA	0.308	380	381	NA
		Percent Recovery			**96%**	**95%**	**97%**	**97%**	**N/A**	**103%**	**95%**	**95%**	**N/A**
LABORATORY CONTROL STANDARD													
		Amount Spiked			2.00	2.00	2.00	2.00	5.00	2.00	2.00	2.00	0.00496
		Amount Recovered			2.00	2.27	2.11	2.24	4.98	1.94	1.99	1.90	0.00508
		Percent Recovery			**100%**	**114%**	**105%**	**112%**	**100%**	**97%**	**99%**	**95%**	**102%**

BATTELLE MARINE SCIENCES LABORATORY
1529 W. Sequim Bay Road
Sequim, WA 98382
(360) 683-4151
(cf#1672)

KINNETICS
CONCENTRATIONS OF METALS IN SEAWATER and EFFLUENT SAMPLES
Samples Received: 07/15-16/10
(concentrations in μg/L - not blank corrected)

12/1/10

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag ICP/MS	Cd ICP/MS	Pb ICP/MS	Hg CVAF
MATRIX SPIKE RESULTS													
		Amount Spiked			NA	NA	NA	NA	5.00	NA	NA	NA	0.0106
		1672*111	Fe/Pd	Dissolved	NA	NA	NA	NA	1.84	NA	NA	NA	0.00138
		1672*111 + Spike R1	Fe/Pd	Dissolved	NS	NS	NS	NS	6.57	NS	NS	NS	0.0121
		Amount Recovered			NA	NA	NA	NA	4.73	NA	NA	NA	0.0107
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**95%**	**N/A**	**N/A**	**N/A**	**101%**
		Amount Spiked			NA	NA	NA	NA	5.00	NA	NA	NA	0.0106
		1672*111	Fe/Pd	Dissolved	NA	NA	NA	NA	1.84	NA	NA	NA	0.00138
		1672*111 + Spike R2	Fe/Pd	Dissolved	NS	NS	NS	NS	6.71	NS	NS	NS	0.0122
		Amount Recovered			NA	NA	NA	NA	4.87	NA	NA	NA	0.0108
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**97%**	**N/A**	**N/A**	**N/A**	**102%**
		Amount Spiked			2.00	2.00	2.00	2.00	NA	2.00	2.00	2.00	NA
		1672*113	Fe/Pd	Dissolved	0.311	0.834	1.18	0.449	NA	0.00258	0.0536	0.00389	NA
		1672*113 + Spike R1	Fe/Pd	Dissolved	2.54	2.64	3.09	2.26	NS	1.84	1.88	1.82	NS
		Amount Recovered			2.23	1.81	1.90	1.81	NA	1.84	1.83	1.81	NA
		Percent Recovery			**111%**	**90%**	**95%**	**91%**	**N/A**	**92%**	**91%**	**91%**	**N/A**
		Amount Spiked			2.00	2.00	2.00	2.00	NA	2.00	2.00	2.00	NA
		1672*113	Fe/Pd	Dissolved	0.311	0.834	1.18	0.449	NA	0.00258	0.0536	0.00389	NA
		1672*113 + Spike R2	Fe/Pd	Dissolved	2.70	2.81	3.30	2.49	NS	1.99	2.03	1.94	NS
		Amount Recovered			2.39	1.98	2.12	2.04	NA	1.99	1.97	1.94	NA
		Percent Recovery			**120%**	**99%**	**106%**	**102%**	**N/A**	**99%**	**99%**	**97%**	**N/A**
		Amount Spiked			NA	NA	NA	NA	NA	NA	NA	NA	0.00982
		1672*118	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.000642
		1672*118 + Spike R1	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.0108
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.0102
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**103%**
		Amount Spiked			NA	NA	NA	NA	NA	NA	NA	NA	0.0103
		1672*118	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.000642
		1672*118 + Spike R2	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.0113
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.0107
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**103%**

BATTELLE MARINE SCIENCES LABORATORY
1529 W. Sequim Bay Road
Sequim, WA 98382
(360) 683-4151
(cf#1672)

KINNETICS
CONCENTRATIONS OF METALS IN SEAWATER and EFFLUENT SAMPLES
Samples Received: 07/15-16/10
(concentrations in μg/L - not blank corrected)

12/1/10

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag ICP/MS	Cd ICP/MS	Pb ICP/MS	Hg CVAF
REPLICATE RESULTS													
1672*108	1	MOA10MTL002	Fe/Pd	Total	11.6	13.9	24.1	37.4	8.60	0.102	0.153	7.21	0.0520
1672*108	2	MOA10MTL002	Fe/Pd	Total	13.2	14.4	24.6	38.5	NA	0.103	0.149	7.47	NA
		% difference			**13%**	**4%**	**2%**	**3%**	**N/A**	**1%**	**3%**	**3%**	**N/A**
1672*109	1	MOA09MTL003	Fe/Pd	Total	11.4	13.3	22.9	34.7	8.20	0.0910	0.136	6.79	0.0418
1672*109	2	MOA09MTL003	Fe/Pd	Total	NA	NA	NA	NA	8.26	NA	NA	NA	0.0408
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**1%**	**N/A**	**N/A**	**N/A**	**2%**

U = not detected at or above detection limit.
NC = not certified.
NA, N/A = not analyzed or applicable.
NS = not spiked.

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Battelle Northwest Laboratory 1529 West Sequim Bay Road Sequim, WA 98382 Attn: Linda Bingler (360)681-3627	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 30 days.	P.O. #: AK10-1007 / KLI Proj. #:506.02

ANALYSIS TYPE: Total dissolved and total recoverable metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. All ICP/MS except As, Cr, Zn (GFAA) and Hg (CVAA).

MATRIX: Water | **Preservative:** None, 6°C | **Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS Raw	Silt.
MOA10MTL001	F1-1S	1	7/13 1600		1672 · 107	111
MOA10MTL002	F1-2S	1	— 1640		108	112
MOA10MTL003	F1-3S	1	7/13 1650		109	113
MOA10MTL004	C1-1S	1			—	
MOA10MTL005	C1-2S	1			—	
MOA10MTL006	C1-3S	1			—	
~~MOA10MTL007~~	~~Effluent~~		? see next sheet		1672 · 110	114

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/14 1400	Fed Ex	[signature]	07/15/10 1240

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	FROM:	
Battelle Northwest Laboratory 1529 West Sequim Bay Road Sequim, WA 98382 Attn: Linda Bingler (360)681-3627	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1007	KLI Proj. #:506.02

ANALYSIS TYPE: Total dissolved and total recoverable metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. All ICP/MS except As, Cr, Zn (GFAA) and Hg (CVAA).

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS Raw SiH
✓ MOA10MTL007	Effluent	1	Start 7/13/10 06:00 End 7/14/10 06:00 Sampler Initials MN / MI		1672 · 110 114

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MSS 7/14/10	7/14 1310	hand	[signature]	
[signature]	7/14 1400	Fed	[signature]	07/15/10 12/40

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**	
Battelle Northwest Laboratory 1529 West Sequim Bay Road Sequim, WA 98382 Attn: Linda Bingler (360)681-3627	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date: 30 days.	P.O. #: AK10-1007	KLI Proj. #:506.02

ANALYSIS TYPE: Total dissolved and total recoverable metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc. All ICP/MS except As, Cr, Zn (GFAA) and Hg (CVAA).

MATRIX: Water	**Preservative:** None, 6°C	**Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
MOA10MTL001	F1-1S	1	7/13 1600	previously sent	
MOA10MTL002	F1-2S	1	1640		
MOA10MTL003	F1-3S	1	1650		Raw Int
MOA10MTL004	C1-1S	1	7/14/10 1725	1672	115 1672·118
MOA10MTL005	C1-2S	1	1738		116 119
MOA10MTL006	C1-3S	1	1755	1672	117 1672·120

SENT 7/14/10

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/15/10 1000	Fed-X	[signature]	07/16/10 1205

SAMPLED BY (NAME/SIGNATURE): _____

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 107-110 Batch: 17

Project Name: Kinnetics Project Manager: MOATS

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater & effluent WP# W34435

Yes	No	
	X	Navy-type Project (requires high-level sample tracking procedures)
	X	USDA Samples (see Compliance Agreement Checklist)
X		Filter Samples: Amount: Entire sample Half of sample
	✓	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Login Lab)
	X	Special instructions:

PM Verification:

Sample Preservation Instructions: .2% HNO_3

See LIMS for archive/disposal information

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
	N/A		Custody seal present — Seal intact? YES NO
N/A			Cooler temperature (acceptable range: 4±2°C or solids:frozen) (if multiple coolers, note temp. of each) — 5.2 °C, °C
		N/A	Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc) Comment/Remedy:
N/A			Were all chain of custody forms signed and dated?
N/A	N/A		Were samples filtered at MSL?

Sample condition(s): Acceptable Other (explain):

Container type: Teflon Poly Glass Cap. Vial Other:

Notes:

Completed By: [signature] Date/Time: 07/15/10 1240

SAMPLE PRESERVATION

	Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
	Random pH checked for ~10% of samples (use dip paper) Sample IDs:
	Complete pH check required for project (use pH meter and record on pH Record form)
X	Sample(s) were preserved at MSL

Type:		Notes:	Lot#
X	0.2% HNO3		1209060
	0.5% HCl (Hg samples)		
	Refrigerate/Freeze		
	Other		

Completed By: [signature] Date/Time: 7/15/10 1305

Storage Shelf: K-5-D

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 1115 Batch: 18

Project Name: Kinnetic Laboratories Project Manager: D Oats

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater WP# W34435

Yes	No	
	X	Navy-type Project (requires high-level sample tracking procedures)
	X	USDA Samples (see Compliance Agreement Checklist)
X		Filter Samples: Amount: Entire sample / Half of sample
	X	Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Login Lab)
	X	Special instructions:

PM Verification:

Sample Preservation Instructions: .2% HNO_3

See LIMS for archive/disposal information

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
	X		Custody seal present — Seal intact? YES NO
X			Cooler temperature (acceptable range: 4±2°C or solids:frozen) (if multiple coolers, note temp. of each) — 3.5 °C; °C
		X	Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc) Comment/Remedy:
X			Were all chain of custody forms signed and dated?
X			Were samples filtered at MSL?

Sample condition(s): Acceptable / Other (explain):

Container type: Teflon Poly Glass Cap. Vial Other:

Notes:

Completed By: [signature] Date/Time: 07/16/10 1205

SAMPLE PRESERVATION

	Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
	Random pH checked for ~10% of samples (use dip paper) Sample IDs:
	Complete pH check required for project (use pH meter and record on pH Record form)
X	Sample(s) were preserved at MSL

Type:			Notes:	Lot#
	X	0.2% HNO3		1209062
		0.5% HCl (Hg samples)		
		Refrigerate/Freeze		
		Other		

Completed By: [signature] Date/Time: 7/16/10 1250

Storage Shelf: R-5-D

APPENDIX C

Receiving Water Quality Monitoring

C5 Intertidal Bacteria

Anchorage Water & Wastewater Utility & Spectra Laboratories

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/17/2010

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

P.O.#: AK10-1006
Project: #506.02
Sample Matrix: Water
Date Sampled: 07/13/2010
Date Received: 07/14/2010
Spectra Project: 2010070236

Client ID	Spectra #	Analyte	Result	Units	Method
F1-1S	1	Fecal Coliform by MPN in	50	MPN/100ml	SM 9221E
F1-2S	2	Fecal Coliform by MPN in	8	MPN/100ml	SM 9221E
F1-3S	3	Fecal Coliform by MPN in	8	MPN/100ml	SM 9221E
F1-4S	4	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
F2-1S	5	Fecal Coliform by MPN in	8	MPN/100ml	SM 9221E
F2-2S	6	Fecal Coliform by MPN in	7	MPN/100ml	SM 9221E
F2-3S	7	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
F2-4S	8	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
F3-1S	9	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
F3-2S	10	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
F3-3S	11	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
F3-4S	12	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a7/snb

Kinnetic Laboratories, Inc. Chain of Custody Record 2010T0236

LABORATORY:	**FROM:**
Spectra Laboratories 2221 Ross Way Tacoma, Washington 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1006	KLI Proj. #: 506.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).

MATRIX: Water	**Preservative:** $Na_2S_2O_3$, <10 °C	**Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
F1-1S	MOA10FEC065	1	7/13 1600		
F1-2S	MOA10FEC066	1	1640		
F1-3S	MOA10FEC067	1	1650		
F1-4S	MOA10FEC068	1	1714		
F2-1S	MOA10FEC069	1	1748		
F2-2S	MOA10FEC070	1	1755		
F2-3S	MOA10FEC071	1	1802		
F2-4S	MOA10FEC072	1	1814		
F3-1S	MOA10FEC073	1	1930		
F3-2S	MOA10FEC074	1	1935		
F3-3S	MOA10FEC075	1	1940		
F3-4S	MOA10FEC076	1	7/13 1956		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/14 1200	Gold Streak	[signature]	7/14/1092

SAMPLED BY (NAME/SIGNATURE): [signature]

ANCHORAGE WATER AND WASTEWATER UTILITY

WATER QUALITY SECTION

Analytical Report

Sample ID	Date collected	Sample name	Parameter	Result	Unit	Method	Analyst
AA77332	7/13/10	MOA10FEC001	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77333	7/13/10	MOA10FEC002	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77334	7/13/10	MOA10FEC003	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77335	7/13/10	MOA10FEC004	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77336	7/13/10	MOA10FEC005	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77337	7/13/10	MOA10FEC006	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77338	7/13/10	MOA10FEC007	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77339	7/13/10	MOA10FEC008	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77340	7/13/10	MOA10FEC009	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77341	7/13/10	MOA10FEC010	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77342	7/13/10	MOA10FEC011	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77343	7/13/10	MOA10FEC012	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77344	7/13/10	MOA10FEC013	Fecal Coliform, MPN	13	FC/100 mL	EPA 600/8-78	WWSWG
AA77345	7/13/10	MOA10FEC014	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77346	7/13/10	MOA10FEC015	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77347	7/13/10	MOA10FEC016	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77348	7/13/10	MOA10FEC017	Fecal Coliform, MPN	6	FC/100 mL	EPA 600/8-78	WWSWG
AA77349	7/13/10	MOA10FEC018	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77350	7/13/10	MOA10FEC019	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77351	7/13/10	MOA10FEC020	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77354	7/13/10	MOA10FEC021	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77355	7/13/10	MOA10FEC022	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77356	7/13/10	MOA10FEC023	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77357	7/13/10	MOA10FEC024	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77358	7/14/10	MOA10FEC025	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77359	7/14/10	MOA10FEC026	Fecal Coliform, MPN	7	FC/100 mL	EPA 600/8-78	WWSWG
AA77360	7/14/10	MOA10FEC027	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77361	7/14/10	MOA10FEC028	Fecal Coliform, MPN	11	FC/100 mL	EPA 600/8-78	WWSWG
AA77362	7/14/10	MOA10FEC029	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77363	7/14/10	MOA10FEC030	Fecal Coliform, MPN	4	FC/100 mL	EPA 600/8-78	WWSWG
AA77364	7/14/10	MOA10FEC031	Fecal Coliform, MPN	7	FC/100 mL	EPA 600/8-78	WWSWG

Reported by: _____ Date: 11/17/2010

Paul W. Smith, Water Quality Analyst

ANCHORAGE WATER AND WASTEWATER UTILITY

WATER QUALITY SECTION

Analytical Report

Sample ID	Date collected	Sample name	Parameter	Result	Unit	Method	Analyst
AA77365	7/14/10	MOA10FEC032	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77366	7/14/10	MOA10FEC033	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77367	7/14/10	MOA10FEC034	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77368	7/14/10	MOA10FEC035	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77369	7/14/10	MOA10FEC036	Fecal Coliform, MPN	11	FC/100 mL	EPA 600/8-78	WWSWG
AA77370	7/14/10	MOA10FEC037	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77371	7/14/10	MOA10FEC038	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77372	7/14/10	MOA10FEC039	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77373	7/14/10	MOA10FEC040	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77374	7/13/10	MOA10FEC041	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77375	7/13/10	MOA10FEC042	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77376	7/13/10	MOA10FEC043	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77377	7/13/10	MOA10FEC044	Fecal Coliform, MPN	33	FC/100 mL	EPA 600/8-78	WWSWG
AA77378	7/13/10	MOA10FEC045	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77379	7/13/10	MOA10FEC046	Fecal Coliform, MPN	5	FC/100 mL	EPA 600/8-78	WWSWG
AA77380	7/13/10	MOA10FEC047	Fecal Coliform, MPN	240	FC/100 mL	EPA 600/8-78	WWSWG
AA77381	7/13/10	MOA10FEC048	Fecal Coliform, MPN	46	FC/100 mL	EPA 600/8-78	WWSWG
AA77382	7/13/10	MOA10FEC049	Fecal Coliform, MPN	11	FC/100 mL	EPA 600/8-78	WWSWG
AA77383	7/13/10	MOA10FEC050	Fecal Coliform, MPN	17	FC/100 mL	EPA 600/8-78	WWSWG
AA77384	7/13/10	MOA10FEC051	Fecal Coliform, MPN	23	FC/100 mL	EPA 600/8-78	WWSWG
AA77385	7/13/10	MOA10FEC052	Fecal Coliform, MPN	17	FC/100 mL	EPA 600/8-78	WWSWG
AA77386	7/13/10	MOA10FEC053	Fecal Coliform, MPN	<2	FC/100 mL	EPA 600/8-78	WWSWG
AA77387	7/13/10	MOA10FEC054	Fecal Coliform, MPN	11	FC/100 mL	EPA 600/8-78	WWSWG
AA77388	7/13/10	MOA10FEC055	Fecal Coliform, MPN	2	FC/100 mL	EPA 600/8-78	WWSWG
AA77389	7/13/10	MOA10FEC056	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77390	7/13/10	0911	Fecal Coliform, MPN	8	FC/100 mL	EPA 600/8-78	WWSWG
AA77391	7/13/10	0911	Fecal Coliform, MPN	11	FC/100 mL	EPA 600/8-78	WWSWG
AA77392	7/13/10	MOA10FEC059	Fecal Coliform, MPN	<0.5	FC/100 mL	EPA 600/8-78	WWSWG
AA77393	7/13/10	MOA10FEC060	Fecal Coliform, MPN	49	FC/100 mL	EPA 600/8-78	WWSWG
AA77394	7/13/10	MOA10FEC061	Fecal Coliform, MPN	49	FC/100 mL	EPA 600/8-78	WWSWG
AA77395	7/13/10	MOA10FEC062	Fecal Coliform, MPN	79	FC/100 mL	EPA 600/8-78	WWSWG

Reported by: _____ Date: 11/17/2010

Paul W. Smith, Water Quality Analyst

ANCHORAGE WATER AND WASTEWATER UTILITY

WATER QUALITY SECTION

Analytical Report

Sample ID	Date collected	Sample name	Parameter	Result	Unit	Method	Analyst
AA77396	7/13/10	MOA10FEC063	Fecal Coliform, MPN	>2400	FC/100 mL	EPA 600/8-78	WWSWG
AA77397	7/13/10	MOA10FEC064	Fecal Coliform, MPN	540	FC/100 mL	EPA 600/8-78	WWSWG

Reported by: _____ Date: 11/17/2010

Paul W. Smith, Water Quality Analyst

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
AWWU to perform in house.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date:	P.O. #: AK10-NA / KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9221 C & E).

MATRIX: Water | **Preservative:** $Na_2S_2O_3$, <10 °C | **Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
E1-1S	MOA07FEC001	1	7/13 0915		
E1-2S	MOA07FEC002	1	0925		
E1-3S	MOA07FEC003	1	0936		
E1-4S	MOA07FEC004	1	0952		
E2-1S	MOA07FEC005	1	1113		
E2-2S	MOA07FEC006	1	1116		
E2-3S	MOA07FEC007	1	1124		
E2-4S	MOA07FEC008	1	7/13 1138		
E3-1S	MOA07FEC009	1			
E3-2S	MOA07FEC010	1			
E3-3S	MOA07FEC011	1			
E3-4S	MOA07FEC012	1			

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/13	hand	[signature]	7/13/10 11:00am

SAMPLED BY (NAME/SIGNATURE): [signature]

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Kinnetic Laboratories, Inc. Chain of Custody Record

s 1 r	**FROM:** Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date: 30 days.	P.O. #: AK10-1006 / KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).

MATRIX: Water | **Preservative:** $Na_2S_2O_3$, <10 °C | **Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
E1-1S	MOA07FEC001				
E1-2S	MOA07FEC002				
E1-3S	MOA07FEC003				
E1-4S	MOA07FEC004				
E2-1S	MOA07FEC005				
E2-2S	MOA07FEC006				
E2-3S	MOA07FEC007				
E2-4S	MOA07FEC008				
E3-1S	MOA07FEC009	1	7/13 1317		
E3-2S	MOA07FEC010	1	1326		
E3-3S	MOA07FEC011	1	1343		
E3-4S	MOA07FEC012	1	7/13 1402		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	7/13 1534	hand		15:35
	7/13/10 15:55	hand		1800

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
AWWU to perform in house.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date:	P.O. #: AK10-NA / KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9221 C & E).

MATRIX: Water | **Preservative:** $Na_2S_2O_3$, <10 °C | **Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION 10	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
F1-1S	MOA07FEC013	1	7/13/10 1600		
F1-2S	MOA07FEC014	1	1640		
F1-3S	MOA07FEC015	1	1650		
F1-4S	MOA07FEC016	1	1714		
F2-1S	MOA07FEC017	1	1748		
F2-2S	MOA07FEC018	1	1755		
F2-3S	MOA07FEC019	1	1802		
F2-4S	MOA07FEC020	1	1814		
F3-1S	MOA07FEC021	1			
F3-2S	MOA07FEC022	1			
F3-3S	MOA07FEC023	1			
F3-4S	MOA07FEC024	1			

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/13 1840	hand	[signature]	6/13/10 1840

SAMPLED BY (NAME/SIGNATURE): _____

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301-2668 P.S.

Kinnetic Laboratories, Inc. Chain of Custody Record

FROM:

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley
(907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.

P.O. #: AK10-1006

KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).

MATRIX: Water

Preservative: $Na_2S_2O_3$, <10 °C

Type of Container: 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
F1-1S	MOA07FEC013				
F1-2S	MOA07FEC014				
F1-3S	MOA07FEC015				
F1-4S	MOA07FEC016				
F2-1S	MOA07FEC017				
F2-2S	MOA07FEC018				
F2-3S	MOA07FEC019				
F2-4S	MOA07FEC020				
F3-1S	MOA07FEC021		1930		
F3-2S	MOA07FEC022		1935		
F3-3S	MOA07FEC023		1940		
F3-4S	MOA07FEC024		1956		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7/13 0010	hand		
[illegible]	7/14/10			

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
AWWU to perform in house.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date:	P.O. #: AK10-NA / KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9221 C & E).

MATRIX: Water | **Preservative:** $Na_2S_2O_3$, <10 °C | **Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
C1-1S	MOA07FEC025	1	7/14/10 1725		
C1-2S	MOA07FEC026	1	1738		
C1-3S	MOA07FEC027	1	1755		
C1-4S	MOA07FEC028	1	1816		
C2-1S	MOA07FEC029	1	1850		
~~C2-2S(A)~~	~~MOA07FEC030~~	~~1~~	1900	Field	
C2-2S(B)	MOA07FEC031	1	1900	triplicate	
C2-2S(C)	MOA07FEC032	1	1900		
~~C2-3S~~	~~MOA07FEC033~~	~~1~~	1915		
C2-4S	MOA07FEC034	1	1928		
~~C3-1S(A)~~	~~MOA07FEC035~~	~~1~~	2034		Fecal laboratory triplicate in larger container; analyze 3 times.
C3-1S(B)	MOA07FEC036	1	2034 ~~2048~~	lab	
C3-1S(C)	MOA07FEC037	1	2034 ~~2056~~	triplicate	
~~C3-2S~~	~~MOA07FEC038~~	~~1~~	2048		
C3-3S	MOA07FEC039	1	2056		
C3-4S	MOA07FEC040	1	7/14/10 2110		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7/14 1100	hand	[illegible]	7/14/10 2310

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
AWWU to perform in house.	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax
Required Completion Date:	P.O. #: AK10-NA / KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9221 C & E).

MATRIX: Water | **Preservative:** $Na_2S_2O_3$, <10 °C | **Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
IT-1 Rep1	MOA07FEC041	1	7/13/10 2107	✓	
IT-1 Rep2	MOA07FEC042	1	2107	✓	
IT-2 Rep1	MOA07FEC043	1	2102	✓	
IT-2 Rep2	MOA07FEC044	1	2102	✓	
IT-3 Rep1	MOA07FEC045	1	2052	✓	
IT-3 Rep2	MOA07FEC046	1	2052	✓	
IT-4 Rep1	MOA07FEC047	1	2049	✓	
IT-4 Rep2	MOA07FEC048	1	2049	✓	
IT-5 Rep1	MOA07FEC049	1	2044	✓	
IT-5 Rep2	MOA07FEC050	1	2044	✓	
IT-6 Rep1	MOA07FEC051	1	2040	✓	
IT-6 Rep2	MOA07FEC052	1	2040	✓	
IT-7 Rep1	MOA07FEC053	1	2035	✓	
IT-7 Rep2	MOA07FEC054	1	2035	✓	
IT-C Rep1	MOA07FEC055	1	2010	✓	
IT-C Rep2	MOA07FEC056	1	7/13/10 2010	✓	

→ Note. Correct sAmple #'s Are All MOA10*EC~~000~~

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7/13 0010	hand		
[illegible]	7/14/10 0010			

SAMPLED BY (NAME/SIGNATURE): _____

Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY: AWWU to perform in house.	**FROM:** Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax	
Required Completion Date:	P.O. #: AK10-NA	KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9221 C & E).

MATRIX: Water	**Preservative:** None, <10 °C	**Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
Chester Creek	MOA10FEC059	1	7-13-10 13:01		
Chester Creek	MOA10FEC060	1	7-13-10 13:01		
Ship Creek Rep1	MOA10FEC061	1	[illegible]		
Ship Creek Rep2	MOA10FEC062	1	7-13-10 [illegible]		
Fish Creek Rep1	MOA10FEC063	1	7-13-10 13:16		
Fish Creek Rep2	MOA10FEC064	1	7-13-10 13:16		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7-13-10 [illegible]	hand	[signature]	7/13/10 1600

SAMPLED BY (NAME/SIGNATURE): Brenda Gumminger [signature]

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Kinnetic Laboratories, Inc. Chain of Custody Record

LABORATORY:	**FROM:**
Spectra Laboratories 2221 Ross Way Tacoma, Washington 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276.6178 phone (907) 278-6881 fax

Required Completion Date: 30 days.	P.O. #: AK10-1006	KLI Proj. #:506.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).

MATRIX: Water	**Preservative:** $Na_2S_2O_3$, <10 °C	**Type of Container:** 125 ml HDPE

SAMPLE IDENTIFICATION	SAMPLE LOCATION	NO. OF CONTAINERS	SAMPLE DATE & TIME	CONDITION UPON RECEIPT	COMMENTS
F1-1S	MOA10FEC065	1	7/13 1600		
F1-2S	MOA10FEC066	1	1640		
F1-3S	MOA10FEC067	1	1650		
F1-4S	MOA10FEC068	1	1714		
F2-1S	MOA10FEC069	1	1748		
F2-2S	MOA10FEC070	1	1755		
F2-3S	MOA10FEC071	1	1802		
F2-4S	MOA10FEC072	1	1814		
F3-1S	MOA10FEC073	1	1930		
F3-2S	MOA10FEC074	1	1935		
F3-3S	MOA10FEC075	1	1940		
F3-4S	MOA10FEC076	1	7/13 1956		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: *Please report all QC data, including method blanks, matrix spike/spike duplicates, duplicates, etc. Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Gary	7/14 1200	Gold Streak		

SAMPLED BY (NAME/SIGNATURE): _____

APPENDIX C

Receiving Water Quality Monitoring

C6 Total Residual Chlorine and Turbidity Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
TOTAL RESIDUAL CHLORINE - LABORATORY REPORT

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU

PROJECT: 2010 ASPLUND WPCF RECEIVING WATER QUALITY

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	Residual Chlorine (µg/L)
MOA10TRC001	E1-1S	7/13/10	9:15	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC002	E1-2S	7/13/10	9:25	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC003	E1-3S	7/13/10	9:36	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC004	E1-4S	7/13/10	9:52	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC005	E2-1S	7/13/10	11:13	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC006	E2-2S	7/13/10	11:16	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC007	E2-3S	7/13/10	11:24	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC008	E2-4S	7/13/10	11:38	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC009	E3-1S	7/13/10	13:17	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC010	E3-2S	7/13/10	13:26	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC011	E3-3S	7/13/10	13:43	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC012	E3-4S	7/13/10	14:02	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC013	F1-1S	7/13/10	16:00	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC014	F1-2S	7/13/10	16:40	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC015	F1-3S	7/13/10	16:50	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC016	F1-4S	7/13/10	17:14	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC017	F2-1S	7/13/10	17:48	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC018	F2-2S	7/13/10	17:55	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC019	F2-3S	7/13/10	18:02	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC020	F2-4S	7/13/10	18:14	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC021	F3-1S	7/13/10	19:30	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC022	F3-2S	7/13/10	19:35	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC023	F3-3S	7/13/10	19:40	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC024	F3-4S	7/13/10	19:56	7/13/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC025	C1-1S	7/14/10	17:28	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC026	C1-2S	7/14/10	17:38	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC027	C1-3S	7/14/10	17:55	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC028	C1-4S	7/14/10	18:16	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC029	C2-1S	7/14/10	18:50	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC030	C2-2SA	7/14/10	19:00	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC031	C2-2SB	7/14/10	19:00	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC032	C2-2SC	7/14/10	19:00	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC033	C2-3S	7/14/10	19:15	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC034	C2-4S	7/14/10	19:28	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC035	C3-1S	7/14/10	20:34	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC038	C3-2S	7/14/10	20:48	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC039	C3-3S	7/14/10	20:56	7/14/10	< 5 minutes	ND (<10 µg/L)
MOA10TRC040	C3-4S	7/14/10	21:10	7/14/10	< 5 minutes	ND (<10 µg/L)

REVIEWED BY: M. Savoie DATE: 10/15/10 SIGNATURE: M Savoie

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2010 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	7/13/10	16:35

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA10TUR001	E1-1S	7/13/2010	9:15	7/13/10	16:40	309
MOA10TUR002	E1-1M	7/13/10	9:15	7/13/10	16:42	575
MOA10TUR003	E1-1B	7/13/10	9:15	7/13/10	16:44	432
MOA10TUR004	E1-2S	7/13/10	9:25	7/13/10	16:46	382
MOA10TUR005	E1-2M	7/13/10	9:25	7/13/10	16:48	415
MOA10TUR006	E1-2B	7/13/10	9:25	7/13/10	16:50	350
MOA10TUR007	E1-3S	7/13/10	9:36	7/13/10	16:52	202
MOA10TUR008	E1-3M	7/13/10	9:36	7/13/10	16:54	328
MOA10TUR009	E1-3B	7/13/10	9:36	7/13/10	16:56	376
MOA10TUR010	E1-4S	7/13/10	9:52	7/13/10	16:58/17:00	215/221
MOA10TUR011	E1-4M	7/13/10	9:52	7/13/10	17:03	354
MOA10TUR012	E1-4B	7/13/10	9:52	7/13/10	17:04	370
MOA10TUR013	E2-1S	7/13/10	11:13	7/13/10	17:06	454
MOA10TUR014	E2-1M	7/13/10	11:13	7/13/10	17:09	462
MOA10TUR015	E2-1B	7/13/10	11:13	7/13/10	17:11	464
MOA10TUR016	E2-2S	7/13/10	11:16	7/13/10	17:18	456
MOA10TUR017	E2-2M	7/13/10	11:16	7/13/10	17:20	433
MOA10TUR018	E2-2B	7/13/10	11:16	7/13/10	17:21	478
MOA10TUR019	E2-3S	7/13/10	11:24	7/13/10	17:24	468
MOA10TUR020	E2-3M	7/13/10	11:24	7/13/10	17:26/17:28	488/489
MOA10TUR021	E2-3B	7/13/10	11:24	7/13/10	17:30	480
MOA10TUR022	E2-4S	7/13/10	11:38	7/13/10	17:33	444
MOA10TUR023	E2-4M	7/13/10	11:38	7/13/10	17:35	452
MOA10TUR024	E2-4B	7/13/10	11:38	7/13/10	17:38	450
MOA10TUR025	E3-1S	7/13/10	13:17	7/13/10	17:42	485
MOA10TUR026	E3-1M	7/13/10	13:17	7/13/10	17:45	494
MOA10TUR027	E3-1B	7/13/10	13:17	7/13/10	17:48	497
MOA10TUR028	E3-2S	7/13/10	13:26	7/13/10	17:51	476
MOA10TUR029	E3-2M	7/13/10	13:26	7/13/10	17:54	487
MOA10TUR030	E3-2B	7/13/10	13:26	7/13/10	17:56/17:57	509/516
MOA10TUR031	E3-3S	7/13/10	13:43	7/13/10	18:00	492
MOA10TUR032	E3-3M	7/13/10	13:43	7/13/10	18:03	511
MOA10TUR033	E3-3B	7/13/10	13:43	7/13/10	18:05	513
MOA10TUR034	E3-4S	7/13/10	14:02	7/13/10	18:08	248
MOA10TUR035	E3-4M	7/13/10	14:02	7/13/10	18:10	539
MOA10TUR036	E3-4B	7/13/10	14:02	7/13/10	18:12/18:15	577/587

REVIEWED BY: _____ DATE: 11/1/10 SIGNATURE: _____

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2010 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	7/13/10	16:35

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA10TUR037	F1-1S	7/13/2010	16:00	7/14/10	9:59	260
MOA10TUR038	F1-1M	7/13/10	16:00	7/14/10	10:03	525
MOA10TUR039	F1-1B	7/13/10	16:00	7/14/10	10:06	560
MOA10TUR040	F1-2S	7/13/10	16:40	7/14/10	10:10	440
MOA10TUR041	F1-2M	7/13/10	16:40	7/14/10	10:14	415
MOA10TUR042	F1-2B	7/13/10	16:40	7/14/10	10:17	475
MOA10TUR043	F1-3S	7/13/10	16:50	7/14/10	10:23	320
MOA10TUR044	F1-3M	7/13/10	16:50	7/14/10	10:25	410
MOA10TUR045	F1-3B	7/13/10	16:50	7/14/10	10:27	420
MOA10TUR046	F1-4S	7/13/10	17:14	7/14/10	10:31	190/195
MOA10TUR047	F1-4M	7/13/10	17:14	7/14/10	10:35	325
MOA10TUR048	F1-4B	7/13/10	17:14	7/14/10	10:36	370
MOA10TUR049	F2-1S	7/13/10	17:48	7/14/10	10:40	550
MOA10TUR050	F2-1M	7/13/10	17:48	7/14/10	10:43	560
MOA10TUR051	F2-1B	7/13/10	17:48	7/14/10	10:45	575
MOA10TUR052	F2-2S	7/13/10	17:55	7/14/10	10:49	490
MOA10TUR053	F2-2M	7/13/10	17:55	7/14/10	10:51	545
MOA10TUR054	F2-2B	7/13/10	17:55	7/14/10	10:54	580
MOA10TUR055	F2-3S	7/13/10	18:02	7/14/10	10:57	310/285
MOA10TUR056	F2-3M	7/13/10	18:02	7/14/10	11:01	540
MOA10TUR057	F2-3B	7/13/10	18:02	7/14/10	11:03	570
MOA10TUR058	F2-4S	7/13/10	18:14	7/14/10	11:05	195
MOA10TUR059	F2-4M	7/13/10	18:14	7/14/10	11:08	590
MOA10TUR060	F2-4B	7/13/10	18:14	7/14/10	11:10	610
MOA10TUR061	F3-1S	7/13/10	19:30	7/14/10	11:13	470
MOA10TUR062	F3-1M	7/13/10	19:30	7/14/10	11:15	480
MOA10TUR063	F3-1B	7/13/10	19:30	7/14/10	11:17	495
MOA10TUR064	F3-2S	7/13/10	19:35	7/14/10	11:20	445/460
MOA10TUR065	F3-2M	7/13/10	19:35	7/14/10	11:23	490
MOA10TUR066	F3-2B	7/13/10	19:35	7/14/10	11:25	510
MOA10TUR067	F3-3S	7/13/10	19:40	7/14/10	11:29	415
MOA10TUR068	F3-3M	7/13/10	19:40	7/14/10	11:31	425
MOA10TUR069	F3-3B	7/13/10	19:40	7/14/10	11:33	450
MOA10TUR070	F3-4S	7/13/10	19:56	7/14/10	11:35	430
MOA10TUR071	F3-4M	7/13/10	19:56	7/14/10	11:36	450
MOA10TUR072	F3-4B	7/13/10	19:56	7/14/10	11:38	455

REVIEWED BY: _____ DATE: 11/1/10 SIGNATURE: _____

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2010 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	7/13/10	16:35

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA10TUR073	C1-1S	7/14/10	17:28	7/15/10	16:49	61
MOA10TUR074	C1-1M	7/14/2010	17:28	7/15/10	16:51	510
MOA10TUR075	C1-1B	7/14/2010	17:28	7/15/10	16:52	520
MOA10TUR076	C1-2S	7/14/2010	17:38	7/15/10	16:54	480
MOA10TUR077	C1-2M	7/14/2010	17:38	7/15/10	16:56	520
MOA10TUR078	C1-2B	7/14/2010	17:38	7/15/10	16:58	565
MOA10TUR079	C1-3S	7/14/2010	17:55	7/15/10	16:59	370
MOA10TUR080	C1-3M	7/14/2010	17:55	7/15/10	17:01	525
MOA10TUR081	C1-3B	7/14/2010	17:55	7/15/10	17:04	565
MOA10TUR082	C1-4S	7/14/2010	18:16	7/15/10	17:06	600/575
MOA10TUR083	C1-4M	7/14/2010	18:16	7/15/10	17:08	560
MOA10TUR084	C1-4B	7/14/2010	18:16	7/15/10	17:10	570
MOA10TUR085	C2-1S	7/14/2010	18:50	7/15/10	17:12	380
MOA10TUR086	C2-1M	7/14/2010	18:50	7/15/10	17:14	440
MOA10TUR087	C2-1B	7/14/2010	18:50	7/15/10	17:15	530
MOA10TUR088	C2-2S	7/14/2010	19:00	7/15/10	17:23	340
MOA10TUR089	C2-2M	7/14/2010	19:00	7/15/10	17:24	420
MOA10TUR090	C2-2B	7/14/2010	19:00	7/15/10	17:26	525
MOA10TUR091	C2-3SA	7/14/2010	19:15	7/15/10	17:29	320
MOA10TUR092	C2-3SB	7/14/2010	19:15	7/15/10	17:31	325
MOA10TUR093	C2-3SC	7/14/2010	19:15	7/15/10	17:32	310
MOA10TUR094	C2-3M	7/14/2010	19:15	7/15/10	17:34	450
MOA10TUR095	C2-3B	7/14/2010	19:15	7/15/10	17:35	530
MOA10TUR096	C2-4S	7/14/2010	19:28	7/15/10	17:37	490
MOA10TUR097	C2-4M	7/14/2010	19:28	7/15/10	17:38	470
MOA10TUR098	C2-4B	7/14/2010	19:28	7/15/10	17:40	560
MOA10TUR099	C3-1S A	7/14/2010	20:34	7/15/10	17:42	420
MOA10TUR100	C3-1S B	7/14/2010	20:34	7/15/10	17:44	445
MOA10TUR101	C3-1S C	7/14/2010	20:34	7/15/10	17:46	455
MOA10TUR102	C3-1M	7/14/2010	20:34	7/15/10	17:49	445/450
MOA10TUR103	C3-1B	7/14/2010	20:34	7/15/10	17:50	490
MOA10TUR104	C3-2S	7/14/2010	20:48	7/15/10	17:52	380
MOA10TUR105	C3-2M	7/14/2010	20:48	7/15/10	17:54	470
MOA10TUR106	C3-2B	7/14/2010	20:48	7/15/10	17:56	540
MOA10TUR107	C3-3S	7/14/2010	20:56	7/15/10	17:57	280
MOA10TUR108	C3-3M	7/14/2010	20:56	7/15/10	17:59	535
MOA10TUR109	C3-3B	7/14/2010	20:56	7/15/10	18:01	545
MOA10TUR110	C3-4S	7/14/2010	21:10	7/15/10	18:03	435
MOA10TUR111	C3-4M	7/14/2010	21:10	7/15/10	18:05	470
MOA10TUR112	C3-4B	7/14/2010	21:10	7/15/10	18:07	500/515

REVIEWED BY: _____ DATE: 11/1/10 SIGNATURE: _____

APPENDIX C

Receiving Water Quality Monitoring

C7 Hydrographic Data Profiles

Kinnetic Laboratories, Inc.

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E1-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.219	1.482	11.397	8.05	9.50	219	8.147	0
1.0	13.223	1.497	11.517	8.06	9.49	324	8.239	0
1.5	13.227	1.506	11.592	8.07	9.49	387	8.296	0
2.0	13.230	1.515	11.673	8.07	9.49	420	8.358	0
2.5	13.233	1.525	11.749	8.07	9.50	434	8.416	0
3.0	13.238	1.549	11.954	8.08	9.47	433	8.572	0
3.5	13.241	1.561	12.055	8.09	9.48	425	8.650	0
4.0	13.243	1.572	12.145	8.09	9.48	411	8.719	0
4.5	13.245	1.591	12.297	8.09	9.47	393	8.836	0
5.0	13.248	1.618	12.528	8.09	9.46	365	9.013	0
5.5	13.251	1.648	12.778	8.09	9.47	337	9.205	0
6.0	13.253	1.667	12.941	8.09	9.46	317	9.330	0
6.5	13.255	1.682	13.063	8.09	9.46	306	9.423	0
7.0	13.257	1.697	13.190	8.08	9.48	297	9.521	0
7.5	13.259	1.717	13.357	8.08	9.47	286	9.649	0
8.0	13.262	1.742	13.572	8.07	9.48	266	9.814	0
8.5	13.265	1.772	13.823	8.07	9.48	251	10.007	0
9.0	13.267	1.796	14.025	8.07	9.48	243	10.162	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E1-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.240	1.532	11.807	8.07	9.48	216	8.459	0
1.0	13.243	1.587	12.271	8.08	9.46	352	8.816	0
1.5	13.247	1.606	12.424	8.08	9.48	350	8.933	0
2.0	13.249	1.615	12.499	8.09	9.45	344	8.990	0
2.5	13.251	1.622	12.562	8.10	9.47	338	9.038	0
3.0	13.254	1.634	12.657	8.10	9.48	335	9.111	0
3.5	13.257	1.641	12.717	8.11	9.47	323	9.157	0
4.0	13.260	1.652	12.812	8.11	9.47	316	9.229	0
4.5	13.265	1.669	12.955	8.11	9.48	309	9.338	0
5.0	13.272	1.693	13.152	8.11	9.48	273	9.489	0
5.5	13.278	1.707	13.264	8.11	9.48	234	9.574	0
6.0	13.282	1.719	13.364	8.11	9.48	219	9.650	0
6.5	13.284	1.729	13.454	8.11	9.48	209	9.719	0
7.0	13.287	1.738	13.525	8.11	9.48	204	9.773	0
7.5	13.291	1.748	13.610	8.11	9.47	201	9.838	0
8.0	13.296	1.762	13.722	8.11	9.47	198	9.923	0
8.5	13.301	1.779	13.868	8.10	9.47	196	10.035	0
9.0	13.303	1.796	14.012	8.10	9.46	192	10.146	0
9.5	13.304	1.810	14.129	8.10	9.46	190	10.235	0
10.0	13.305	1.824	14.246	8.10	9.47	191	10.325	0
10.5	13.304	1.837	14.362	8.10	9.46	194	10.414	0
11.0	13.304	1.849	14.460	8.10	9.47	195	10.490	0
11.5	13.305	1.860	14.555	8.09	9.47	195	10.563	0
12.0	13.305	1.867	14.616	8.09	9.46	195	10.610	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E1-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.263	1.520	11.700	8.06	9.46	191	8.374	0
1.0	13.256	1.636	12.675	8.08	9.44	247	9.124	0
1.5	13.258	1.669	12.953	8.09	9.44	256	9.338	0
2.0	13.259	1.682	13.062	8.10	9.45	248	9.422	0
2.5	13.261	1.704	13.248	8.10	9.43	230	9.565	0
3.0	13.262	1.728	13.450	8.10	9.39	205	9.720	0
3.5	13.263	1.734	13.504	8.10	9.42	186	9.761	0
4.0	13.264	1.735	13.506	8.11	9.44	184	9.762	0
4.5	13.265	1.738	13.536	8.11	9.44	188	9.785	0
5.0	13.266	1.744	13.588	8.11	9.44	190	9.826	0
5.5	13.268	1.757	13.692	8.11	9.44	190	9.905	0
6.0	13.271	1.773	13.828	8.11	9.44	185	10.009	0
6.5	13.272	1.776	13.854	8.11	9.45	180	10.029	0
7.0	13.276	1.781	13.897	8.11	9.45	181	10.062	0
7.5	13.280	1.783	13.907	8.11	9.46	184	10.068	0
8.0	13.287	1.796	14.014	8.11	9.43	183	10.150	0
8.5	13.295	1.808	14.116	8.11	9.45	183	10.227	0
9.0	13.300	1.814	14.170	8.11	9.45	187	10.267	0
9.5	13.311	1.827	14.270	8.11	9.45	191	10.343	0
10.0	13.322	1.848	14.442	8.11	9.44	206	10.473	0
10.5	13.326	1.857	14.525	8.11	9.44	215	10.536	0
11.0	13.324	1.860	14.547	8.11	9.46	215	10.554	0
11.5	13.323	1.860	14.547	8.11	9.45	214	10.554	0
12.0	13.320	1.864	14.583	8.11	9.44	215	10.582	0
12.5	13.316	1.869	14.630	8.11	9.45	212	10.619	0
13.0	13.313	1.872	14.655	8.11	9.44	214	10.638	0
13.5	13.310	1.874	14.669	8.11	9.46	215	10.650	0
14.0	13.308	1.876	14.688	8.11	9.48	216	10.665	0
14.5	13.306	1.877	14.700	8.10	9.48	223	10.674	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E1-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.287	1.678	13.017	8.06	9.41	128	9.383	0
1.0	13.282	1.701	13.215	8.09	9.39	127	9.536	0
1.5	13.280	1.713	13.316	8.10	9.42	126	9.613	0
2.0	13.268	1.725	13.423	8.10	9.43	120	9.698	0
2.5	13.252	1.765	13.770	8.10	9.40	116	9.967	0
3.0	13.252	1.804	14.104	8.10	9.39	133	10.224	0
3.5	13.260	1.816	14.197	8.10	9.39	166	10.295	0
4.0	13.268	1.818	14.208	8.10	9.38	187	10.302	0
4.5	13.285	1.821	14.228	8.10	9.39	199	10.314	0
5.0	13.301	1.825	14.260	8.11	9.41	210	10.337	0
5.5	13.309	1.828	14.284	8.11	9.40	215	10.354	0
6.0	13.319	1.832	14.311	8.11	9.39	217	10.373	0
6.5	13.328	1.836	14.341	8.11	9.41	220	10.395	0
7.0	13.332	1.839	14.369	8.11	9.40	222	10.415	0
7.5	13.336	1.845	14.412	8.11	9.40	227	10.448	0
8.0	13.336	1.852	14.477	8.11	9.42	226	10.498	0
8.5	13.335	1.861	14.551	8.11	9.43	224	10.555	0
9.0	13.333	1.867	14.607	8.11	9.42	236	10.598	0
9.5	13.335	1.864	14.581	8.11	9.43	224	10.578	0
10.0	13.333	1.869	14.620	8.11	9.43	228	10.608	0
10.5	13.331	1.872	14.646	8.11	9.43	230	10.629	0
11.0	13.328	1.875	14.674	8.11	9.47	233	10.651	0
11.5	13.324	1.878	14.703	8.11	9.48	238	10.674	0
12.0	13.322	1.880	14.720	8.11	9.48	245	10.687	0
12.5	13.322	1.881	14.724	8.11	9.48	249	10.690	0
13.0	13.323	1.881	14.724	8.11	9.48	250	10.690	0
13.5	13.322	1.881	14.726	8.11	9.49	252	10.692	0
14.0	13.321	1.881	14.727	8.11	9.51	258	10.692	0
14.5	13.321	1.876	14.683	8.11	9.49	269	10.659	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E2-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.306	1.579	12.181	8.09	9.44	293	8.737	0
1.0	13.307	1.580	12.186	8.10	9.44	292	8.740	0
1.5	13.307	1.580	12.192	8.10	9.46	289	8.745	0
2.0	13.305	1.580	12.191	8.11	9.45	291	8.745	0
2.5	13.303	1.580	12.192	8.11	9.44	292	8.745	0
3.0	13.302	1.580	12.193	8.11	9.44	291	8.746	0
3.5	13.301	1.581	12.197	8.11	9.45	292	8.749	0
4.0	13.301	1.581	12.197	8.11	9.46	291	8.750	0
4.5	13.301	1.581	12.199	8.11	9.45	291	8.751	0
5.0	13.300	1.581	12.202	8.11	9.45	291	8.754	0
5.5	13.300	1.582	12.205	8.11	9.47	290	8.756	0
6.0	13.300	1.582	12.205	8.11	9.50	290	8.756	0
6.5	13.300	1.582	12.206	8.11	9.51	291	8.757	0
7.0	13.300	1.582	12.205	8.11	9.50	291	8.756	0
7.5	13.300	1.582	12.205	8.11	9.50	293	8.756	0
8.0	13.301	1.582	12.207	8.11	9.50	295	8.757	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E2-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.303	1.583	12.215	8.08	9.44	294	8.763	0
1.0	13.303	1.583	12.217	8.09	9.45	292	8.765	0
1.5	13.302	1.583	12.219	8.09	9.45	292	8.766	0
2.0	13.302	1.584	12.221	8.10	9.45	292	8.768	0
2.5	13.302	1.584	12.223	8.10	9.46	292	8.770	0
3.0	13.302	1.584	12.225	8.10	9.46	293	8.771	0
3.5	13.301	1.584	12.226	8.11	9.46	296	8.772	0
4.0	13.301	1.584	12.227	8.11	9.46	297	8.772	0
4.5	13.301	1.584	12.227	8.11	9.49	294	8.773	0
5.0	13.301	1.584	12.227	8.11	9.49	293	8.773	0
5.5	13.301	1.584	12.228	8.11	9.49	292	8.774	0
6.0	13.302	1.585	12.232	8.11	9.49	292	8.777	0
6.5	13.302	1.585	12.234	8.11	9.50	294	8.778	0
7.0	13.301	1.585	12.234	8.11	9.50	305	8.778	0
7.5	13.301	1.585	12.235	8.11	9.53	298	8.779	0
8.0	13.302	1.585	12.233	8.11	9.53	295	8.777	0
8.5	13.301	1.585	12.232	8.11	9.51	297	8.777	0
9.0	13.301	1.585	12.232	8.11	9.52	297	8.776	0
9.5	13.302	1.585	12.232	8.11	9.53	301	8.776	0
10.0	13.302	1.585	12.235	8.11	9.54	298	8.779	0
10.5	13.301	1.586	12.238	8.11	9.55	293	8.781	0
11.0	13.301	1.586	12.237	8.11	9.55	294	8.780	0
11.5	13.302	1.585	12.232	8.11	9.54	294	8.776	0
12.0	13.302	1.585	12.229	8.11	9.52	296	8.774	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E2-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.297	1.600	12.357	8.06	9.43	294	8.874	0
1.0	13.296	1.599	12.352	8.07	9.42	294	8.870	0
1.5	13.296	1.598	12.346	8.08	9.44	294	8.865	0
2.0	13.296	1.598	12.342	8.08	9.45	294	8.862	0
2.5	13.295	1.598	12.341	8.09	9.45	293	8.861	0
3.0	13.295	1.598	12.343	8.10	9.45	292	8.863	0
3.5	13.295	1.598	12.345	8.10	9.44	292	8.864	0
4.0	13.295	1.598	12.347	8.11	9.46	293	8.866	0
4.5	13.295	1.598	12.347	8.11	9.47	294	8.866	0
5.0	13.295	1.598	12.344	8.11	9.48	296	8.864	0
5.5	13.295	1.598	12.343	8.11	9.47	298	8.863	0
6.0	13.295	1.598	12.346	8.11	9.48	298	8.865	0
6.5	13.294	1.599	12.354	8.11	9.48	298	8.872	0
7.0	13.295	1.600	12.358	8.11	9.48	298	8.875	0
7.5	13.294	1.599	12.355	8.11	9.51	298	8.872	0
8.0	13.295	1.599	12.354	8.11	9.52	297	8.871	0
8.5	13.295	1.600	12.357	8.11	9.51	299	8.874	0
9.0	13.295	1.599	12.355	8.11	9.51	299	8.872	0
9.5	13.294	1.599	12.351	8.11	9.52	298	8.869	0
10.0	13.295	1.600	12.357	8.12	9.53	300	8.873	0
10.5	13.295	1.600	12.359	8.11	9.53	305	8.876	0
11.0	13.295	1.602	12.375	8.11	9.53	307	8.888	0
11.5	13.295	1.603	12.382	8.12	9.53	308	8.893	0
12.0	13.295	1.603	12.383	8.11	9.54	312	8.894	0
12.5	13.294	1.603	12.382	8.12	9.55	306	8.893	0
13.0	13.294	1.602	12.375	8.12	9.56	308	8.887	0
13.5	13.294	1.601	12.371	8.12	9.56	298	8.885	0
14.0	13.294	1.601	12.372	8.12	9.55	297	8.885	0
14.5	13.295	1.602	12.374	8.12	9.54	339	8.887	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E2-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.304	1.612	12.455	8.08	9.42	282	8.948	0
1.0	13.302	1.611	12.453	8.08	9.40	281	8.947	0
1.5	13.301	1.611	12.452	8.08	9.43	283	8.946	0
2.0	13.301	1.611	12.451	8.08	9.43	282	8.945	0
2.5	13.301	1.611	12.450	8.08	9.42	282	8.945	0
3.0	13.302	1.611	12.452	8.09	9.44	283	8.945	0
3.5	13.301	1.611	12.454	8.09	9.45	283	8.947	0
4.0	13.301	1.612	12.459	8.11	9.45	283	8.952	0
4.5	13.301	1.612	12.462	8.11	9.45	283	8.954	0
5.0	13.301	1.613	12.464	8.11	9.45	285	8.955	0
5.5	13.301	1.613	12.466	8.11	9.46	286	8.957	0
6.0	13.301	1.613	12.467	8.11	9.48	285	8.958	0
6.5	13.301	1.613	12.469	8.11	9.47	282	8.959	0
7.0	13.302	1.614	12.474	8.11	9.47	281	8.962	0
7.5	13.302	1.615	12.480	8.11	9.45	282	8.968	0
8.0	13.302	1.616	12.489	8.11	9.45	283	8.974	0
8.5	13.302	1.616	12.490	8.11	9.48	283	8.975	0
9.0	13.302	1.615	12.487	8.11	9.47	285	8.973	0
9.5	13.302	1.615	12.487	8.11	9.50	287	8.973	0
10.0	13.302	1.615	12.481	8.11	9.49	286	8.968	0
10.5	13.302	1.614	12.478	8.11	9.50	285	8.966	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E3-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.290	1.428	10.929	8.11	9.54	301	7.776	0
1.0	13.288	1.428	10.929	8.11	9.54	303	7.776	0
1.5	13.287	1.428	10.929	8.11	9.56	300	7.777	0
2.0	13.286	1.428	10.930	8.11	9.56	301	7.777	0
2.5	13.284	1.428	10.931	8.11	9.57	303	7.779	0
3.0	13.284	1.428	10.932	8.11	9.57	304	7.779	0
3.5	13.285	1.428	10.932	8.11	9.56	304	7.779	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E3-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.293	1.429	10.935	8.10	9.53	304	7.780	0
1.0	13.292	1.429	10.938	8.11	9.53	301	7.782	0
1.5	13.290	1.429	10.940	8.11	9.53	308	7.784	0
2.0	13.291	1.430	10.940	8.11	9.55	310	7.784	0
2.5	13.291	1.430	10.940	8.11	9.55	309	7.784	0
3.0	13.291	1.430	10.940	8.11	9.54	310	7.784	0
3.5	13.291	1.430	10.940	8.11	9.57	310	7.784	0
4.0	13.289	1.430	10.942	8.11	9.56	310	7.787	0
4.5	13.289	1.430	10.943	8.11	9.56	315	7.787	0
5.0	13.289	1.430	10.942	8.11	9.58	325	7.786	0
5.5	13.289	1.430	10.940	8.11	9.58	318	7.785	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E3-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.394	1.436	10.967	8.07	9.47	249	7.789	0
1.0	13.289	1.433	10.967	8.10	9.53	311	7.805	0
1.5	13.289	1.433	10.969	8.11	9.53	312	7.807	0
2.0	13.288	1.433	10.973	8.11	9.53	313	7.810	0
2.5	13.287	1.433	10.974	8.11	9.53	316	7.811	0
3.0	13.288	1.434	10.974	8.11	9.54	317	7.811	0
3.5	13.288	1.434	10.975	8.11	9.55	318	7.812	0
4.0	13.288	1.434	10.976	8.11	9.55	320	7.812	0
4.5	13.287	1.434	10.976	8.11	9.58	321	7.813	0
5.0	13.287	1.434	10.976	8.11	9.56	322	7.813	0
5.5	13.288	1.434	10.976	8.11	9.54	323	7.813	0
6.0	13.288	1.434	10.977	8.11	9.56	324	7.813	0
6.5	13.287	1.434	10.976	8.11	9.59	326	7.813	0
7.0	13.287	1.434	10.977	8.11	9.58	334	7.813	0
7.5	13.288	1.434	10.977	8.11	9.58	328	7.814	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: E3-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.344	1.437	10.985	8.09	9.52	176	7.811	0
1.0	13.320	1.436	10.988	8.11	9.53	203	7.817	0
1.5	13.304	1.437	10.997	8.11	9.55	248	7.826	0
2.0	13.285	1.437	11.007	8.11	9.55	313	7.837	0
2.5	13.273	1.438	11.014	8.12	9.53	345	7.844	0
3.0	13.269	1.439	11.027	8.12	9.53	355	7.854	0
3.5	13.267	1.441	11.039	8.12	9.56	356	7.864	0
4.0	13.265	1.442	11.054	8.12	9.56	361	7.876	0
4.5	13.265	1.443	11.060	8.12	9.56	366	7.881	0
5.0	13.264	1.443	11.061	8.12	9.57	370	7.881	0
5.5	13.264	1.443	11.061	8.12	9.58	374	7.882	0
6.0	13.265	1.443	11.059	8.12	9.58	377	7.880	0
6.5	13.265	1.443	11.060	8.12	9.58	370	7.881	0
7.0	13.264	1.443	11.063	8.12	9.57	369	7.883	0
7.5	13.264	1.444	11.064	8.12	9.59	369	7.884	0
8.0	13.263	1.444	11.068	8.12	9.58	369	7.887	0
8.5	13.263	1.444	11.070	8.12	9.59	376	7.888	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F1-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.199	1.267	9.621	8.12	9.67	316	6.783	0
1.0	13.183	1.266	9.617	8.13	9.67	339	6.782	0
1.5	13.185	1.265	9.613	8.12	9.68	349	6.779	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F1-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.273	1.301	9.882	8.09	9.62	292	6.973	0
1.0	13.270	1.301	9.882	8.10	9.63	291	6.974	0
1.5	13.268	1.301	9.881	8.10	9.62	293	6.973	0
2.0	13.268	1.300	9.880	8.10	9.64	295	6.973	0
2.5	13.267	1.300	9.881	8.10	9.64	297	6.973	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F1-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.298	1.308	9.935	8.11	9.63	254	7.010	0
1.0	13.294	1.308	9.940	8.11	9.64	257	7.014	0
1.5	13.293	1.309	9.942	8.11	9.64	271	7.016	0
2.0	13.292	1.309	9.942	8.11	9.64	276	7.016	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F1-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.372	1.314	9.965	8.12	9.57	104	7.022	0
1.0	13.340	1.317	9.999	8.12	9.57	226	7.053	0
1.5	13.335	1.317	10.001	8.12	9.58	234	7.055	0
2.0	13.333	1.317	9.999	8.12	9.58	237	7.054	0
2.5	13.333	1.317	10.002	8.12	9.59	234	7.056	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F2-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.397	1.461	11.167	8.11	9.49	407	7.942	0
1.0	13.395	1.460	11.166	8.12	9.49	411	7.942	0
1.5	13.396	1.461	11.171	8.12	9.49	409	7.946	0
2.0	13.396	1.462	11.177	8.12	9.50	409	7.950	0
2.5	13.396	1.462	11.178	8.12	9.50	411	7.951	0
3.0	13.397	1.462	11.179	8.12	9.49	414	7.951	0
3.5	13.396	1.462	11.179	8.12	9.51	416	7.951	0
4.0	13.396	1.462	11.177	8.12	9.53	424	7.950	0
4.5	13.396	1.461	11.171	8.12	9.52	422	7.945	0
5.0	13.395	1.460	11.162	8.12	9.53	432	7.939	0
5.5	13.393	1.459	11.156	8.13	9.53	441	7.934	0
6.0	13.393	1.459	11.155	8.13	9.55	437	7.934	0
6.5	13.394	1.459	11.156	8.13	9.56	434	7.935	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F2-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.407	1.464	11.190	8.11	9.34	403	7.958	0
1.0	13.402	1.462	11.177	8.11	9.35	405	7.950	0
1.5	13.400	1.461	11.168	8.12	9.36	411	7.942	0
2.0	13.400	1.460	11.164	8.12	9.40	411	7.940	0
2.5	13.399	1.460	11.163	8.12	9.43	412	7.939	0
3.0	13.398	1.460	11.162	8.12	9.44	413	7.938	0
3.5	13.397	1.460	11.159	8.12	9.45	414	7.936	0
4.0	13.396	1.459	11.150	8.13	9.45	416	7.929	0
4.5	13.395	1.457	11.139	8.13	9.46	416	7.921	0
5.0	13.392	1.456	11.127	8.13	9.45	417	7.913	0
5.5	13.391	1.454	11.116	8.13	9.44	419	7.904	0
6.0	13.390	1.453	11.108	8.13	9.48	421	7.898	0
6.5	13.389	1.453	11.102	8.13	9.49	423	7.894	0
7.0	13.389	1.452	11.096	8.13	9.49	423	7.889	0
7.5	13.387	1.451	11.088	8.13	9.50	427	7.883	0
8.0	13.388	1.451	11.089	8.13	9.50	426	7.884	0
8.5	13.387	1.450	11.080	8.13	9.49	428	7.877	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F2-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.398	1.439	10.990	8.10	9.50	357	7.806	0
1.0	13.387	1.440	10.998	8.11	9.50	366	7.814	0
1.5	13.387	1.445	11.041	8.11	9.50	392	7.847	0
2.0	13.390	1.449	11.073	8.11	9.50	398	7.871	0
2.5	13.390	1.449	11.076	8.12	9.51	402	7.873	0
3.0	13.387	1.448	11.068	8.12	9.52	407	7.868	0
3.5	13.386	1.448	11.062	8.12	9.54	415	7.863	0
4.0	13.384	1.447	11.057	8.12	9.54	418	7.860	0
4.5	13.381	1.445	11.044	8.12	9.55	421	7.850	0
5.0	13.379	1.444	11.034	8.12	9.56	423	7.843	0
5.5	13.375	1.442	11.018	8.13	9.53	420	7.831	0
6.0	13.373	1.439	10.994	8.13	9.52	427	7.813	0
6.5	13.371	1.436	10.968	8.13	9.54	435	7.793	0
7.0	13.370	1.434	10.952	8.13	9.56	440	7.781	0
7.5	13.370	1.433	10.943	8.13	9.56	446	7.774	0
8.0	13.370	1.432	10.936	8.13	9.56	445	7.769	0
8.5	13.370	1.431	10.931	8.13	9.57	452	7.765	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F2-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.467	1.437	10.953	8.09	9.50	247	7.767	0
1.0	13.461	1.451	11.070	8.10	9.50	219	7.858	0
1.5	13.453	1.460	11.143	8.10	9.50	221	7.915	0
2.0	13.450	1.459	11.136	8.11	9.49	237	7.910	0
2.5	13.445	1.457	11.126	8.11	9.50	250	7.903	0
3.0	13.426	1.457	11.126	8.11	9.53	255	7.906	0
3.5	13.411	1.459	11.150	8.12	9.52	297	7.927	0
4.0	13.400	1.457	11.138	8.12	9.53	358	7.919	0
4.5	13.396	1.455	11.117	8.12	9.54	405	7.904	0
5.0	13.393	1.451	11.088	8.12	9.53	421	7.882	0
5.5	13.391	1.448	11.065	8.12	9.54	427	7.865	0
6.0	13.388	1.445	11.041	8.13	9.55	427	7.847	0
6.5	13.386	1.442	11.017	8.13	9.56	432	7.829	0
7.0	13.385	1.438	10.985	8.13	9.57	436	7.804	0
7.5	13.383	1.434	10.953	8.13	9.56	438	7.780	0
8.0	13.383	1.433	10.944	8.13	9.57	442	7.773	0
8.5	13.383	1.432	10.935	8.13	9.60	447	7.766	0
9.0	13.382	1.428	10.900	8.13	9.59	447	7.739	0
9.5	13.383	1.424	10.864	8.14	9.60	455	7.712	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F3-1 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.384	1.581	12.172	8.11	9.44	326	8.718	0
1.0	13.386	1.580	12.167	8.11	9.44	329	8.713	0
1.5	13.386	1.579	12.158	8.11	9.44	325	8.706	0
2.0	13.386	1.579	12.155	8.12	9.44	325	8.704	0
2.5	13.387	1.579	12.155	8.12	9.44	326	8.704	0
3.0	13.386	1.579	12.154	8.12	9.45	322	8.703	0
3.5	13.385	1.578	12.146	8.12	9.45	333	8.697	0
4.0	13.384	1.580	12.168	8.12	9.45	335	8.714	0
4.5	13.384	1.580	12.167	8.12	9.46	336	8.713	0
5.0	13.385	1.580	12.163	8.13	9.46	333	8.710	0
5.5	13.384	1.580	12.165	8.13	9.48	335	8.712	0
6.0	13.383	1.580	12.168	8.13	9.47	337	8.714	0
6.5	13.382	1.581	12.174	8.13	9.48	342	8.719	0
7.0	13.381	1.582	12.183	8.13	9.48	350	8.726	0
7.5	13.381	1.582	12.182	8.13	9.49	353	8.726	0
8.0	13.381	1.582	12.184	8.13	9.51	347	8.727	0
8.5	13.381	1.582	12.184	8.14	9.50	347	8.727	0
9.0	13.380	1.582	12.179	8.14	9.49	348	8.723	0
9.5	13.380	1.581	12.177	8.14	9.49	345	8.722	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F3-2 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.387	1.582	12.184	8.10	9.42	319	8.726	0
1.0	13.382	1.581	12.176	8.11	9.43	323	8.721	0
1.5	13.383	1.582	12.179	8.11	9.43	326	8.723	0
2.0	13.383	1.582	12.181	8.12	9.44	325	8.724	0
2.5	13.383	1.582	12.181	8.12	9.45	327	8.724	0
3.0	13.382	1.582	12.180	8.13	9.45	324	8.724	0
3.5	13.382	1.582	12.180	8.13	9.46	326	8.724	0
4.0	13.382	1.582	12.179	8.13	9.44	328	8.723	0
4.5	13.383	1.582	12.178	8.13	9.46	329	8.722	0
5.0	13.381	1.581	12.172	8.13	9.46	328	8.718	0
5.5	13.381	1.580	12.167	8.13	9.45	325	8.714	0
6.0	13.382	1.580	12.163	8.13	9.48	326	8.710	0
6.5	13.382	1.580	12.165	8.14	9.46	327	8.712	0
7.0	13.382	1.580	12.168	8.14	9.47	328	8.715	0
7.5	13.381	1.581	12.172	8.14	9.46	328	8.717	0
8.0	13.383	1.581	12.173	8.14	9.48	327	8.718	0
8.5	13.382	1.581	12.171	8.14	9.48	327	8.717	0
9.0	13.382	1.580	12.167	8.14	9.52	330	8.714	0
9.5	13.383	1.580	12.161	8.14	9.52	329	8.709	0
10.0	13.382	1.579	12.158	8.14	9.52	338	8.707	0
10.5	13.381	1.579	12.157	8.14	9.53	343	8.706	0
11.0	13.379	1.578	12.149	8.14	9.53	342	8.700	0
11.5	13.379	1.577	12.137	8.14	9.54	335	8.691	0
12.0	13.380	1.575	12.125	8.14	9.52	340	8.682	0
12.5	13.380	1.575	12.124	8.15	9.53	343	8.681	0
13.0	13.380	1.576	12.128	8.15	9.54	345	8.684	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F3-3 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.432	1.458	11.137	8.11	9.49	258	7.914	0
1.0	13.406	1.511	11.580	8.11	9.48	270	8.259	0
1.5	13.397	1.527	11.717	8.12	9.47	270	8.365	0
2.0	13.390	1.551	11.925	8.12	9.44	285	8.526	0
2.5	13.388	1.563	12.023	8.12	9.44	300	8.602	0
3.0	13.387	1.566	12.049	8.12	9.44	309	8.622	0
3.5	13.387	1.568	12.061	8.12	9.46	310	8.632	0
4.0	13.389	1.564	12.028	8.12	9.45	313	8.606	0
4.5	13.378	1.582	12.187	8.12	9.44	319	8.730	0
5.0	13.376	1.585	12.211	8.13	9.43	322	8.749	0
5.5	13.375	1.587	12.225	8.13	9.46	321	8.760	0
6.0	13.374	1.588	12.237	8.13	9.47	324	8.769	0
6.5	13.373	1.590	12.248	8.13	9.45	334	8.777	0
7.0	13.373	1.590	12.255	8.13	9.45	321	8.783	0
7.5	13.372	1.592	12.269	8.13	9.48	326	8.794	0
8.0	13.371	1.593	12.275	8.13	9.48	328	8.799	0
8.5	13.370	1.593	12.281	8.13	9.49	327	8.803	0
9.0	13.368	1.595	12.292	8.13	9.51	326	8.813	0
9.5	13.366	1.597	12.315	8.13	9.51	329	8.830	0
10.0	13.364	1.598	12.324	8.13	9.51	329	8.837	0
10.5	13.363	1.599	12.328	8.13	9.49	339	8.841	0
11.0	13.363	1.599	12.331	8.13	9.50	341	8.843	0
11.5	13.363	1.599	12.330	8.13	9.53	337	8.843	0
12.0	13.363	1.598	12.320	8.13	9.53	341	8.835	0
12.5	13.364	1.596	12.307	8.13	9.53	344	8.824	0
13.0	13.364	1.596	12.306	8.13	9.54	341	8.823	0
13.5	13.365	1.598	12.319	8.13	9.54	335	8.833	0
14.0	13.364	1.597	12.316	8.14	9.54	336	8.831	0
14.5	13.364	1.597	12.309	8.14	9.55	336	8.826	0
15.0	13.364	1.596	12.301	8.14	9.56	337	8.819	0
15.5	13.365	1.596	12.299	8.14	9.55	334	8.818	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: F3-4 **Date: 7/13/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.379	1.575	12.128	8.04	9.43	305	8.684	0
1.0	13.367	1.583	12.198	8.06	9.43	305	8.740	0
1.5	13.362	1.589	12.247	8.06	9.43	306	8.778	0
2.0	13.357	1.594	12.287	8.07	9.44	306	8.810	0
2.5	13.355	1.596	12.310	8.08	9.44	306	8.828	0
3.0	13.353	1.598	12.324	8.10	9.44	310	8.839	0
3.5	13.350	1.601	12.351	8.11	9.44	310	8.861	0
4.0	13.348	1.604	12.374	8.12	9.44	309	8.879	0
4.5	13.346	1.606	12.393	8.12	9.44	309	8.894	0
5.0	13.344	1.607	12.402	8.12	9.45	310	8.901	0
5.5	13.342	1.608	12.412	8.12	9.47	310	8.908	0
6.0	13.341	1.610	12.427	8.13	9.46	310	8.921	0
6.5	13.340	1.611	12.437	8.13	9.46	311	8.928	0
7.0	13.338	1.612	12.445	8.13	9.45	311	8.934	0
7.5	13.339	1.612	12.451	8.13	9.45	311	8.939	0
8.0	13.338	1.613	12.454	8.13	9.46	312	8.942	0
8.5	13.336	1.613	12.456	8.13	9.47	311	8.943	0
9.0	13.336	1.613	12.459	8.13	9.48	311	8.945	0
9.5	13.336	1.614	12.465	8.13	9.49	313	8.950	0
10.0	13.335	1.615	12.470	8.13	9.47	313	8.955	0
10.5	13.333	1.615	12.475	8.13	9.50	314	8.958	0
11.0	13.333	1.616	12.480	8.13	9.50	312	8.962	0
11.5	13.332	1.616	12.484	8.13	9.51	314	8.965	0
12.0	13.331	1.617	12.488	8.13	9.49	314	8.969	0
12.5	13.330	1.617	12.490	8.13	9.51	315	8.970	0
13.0	13.331	1.617	12.490	8.13	9.51	314	8.970	0
13.5	13.330	1.617	12.490	8.13	9.52	319	8.970	0
14.0	13.329	1.617	12.493	8.13	9.52	320	8.972	0
14.5	13.329	1.618	12.498	8.13	9.53	314	8.977	0
15.0	13.328	1.618	12.499	8.13	9.54	323	8.978	0
15.5	13.328	1.618	12.497	8.13	9.55	329	8.976	0
16.0	13.328	1.618	12.496	8.13	9.54	333	8.975	0
16.5	13.329	1.618	12.494	8.13	9.55	329	8.974	0
17.0	13.330	1.618	12.494	8.13	9.54	332	8.974	0
17.5	13.329	1.617	12.490	8.13	9.55	334	8.970	0
18.0	13.329	1.617	12.487	8.13	9.52	334	8.968	0
18.5	13.328	1.617	12.489	8.13	9.55	334	8.970	0
19.0	13.328	1.618	12.497	8.13	9.56	339	8.976	0
19.5	13.328	1.618	12.497	8.14	9.58	339	8.976	0
20.0	13.327	1.618	12.497	8.14	9.57	338	8.976	0
20.5	13.327	1.617	12.491	8.14	9.58	340	8.971	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C1-1 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.473	1.144	8.559	8.09	9.70	209	5.925	0
1.0	13.391	1.205	9.070	8.10	9.62	276	6.330	0
1.5	13.377	1.207	9.085	8.11	9.64	282	6.344	0
2.0	13.359	1.207	9.096	8.11	9.61	299	6.355	0
2.5	13.352	1.208	9.099	8.11	9.64	316	6.359	0
3.0	13.343	1.208	9.105	8.11	9.64	321	6.365	0
3.5	13.336	1.209	9.112	8.11	9.63	328	6.371	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C1-2 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.325	1.214	9.160	8.11	9.72	357	6.409	0
1.0	13.261	1.216	9.191	8.11	9.72	375	6.443	0
1.5	13.235	1.219	9.218	8.11	9.74	412	6.468	0
2.0	13.223	1.220	9.236	8.11	9.73	449	6.483	0
2.5	13.219	1.221	9.242	8.11	9.73	480	6.488	0
3.0	13.216	1.221	9.245	8.11	9.73	499	6.491	0
3.5	13.213	1.221	9.246	8.11	9.73	515	6.493	0
4.0	13.210	1.221	9.243	8.11	9.73	525	6.491	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C1-3 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.446	1.217	9.151	8.08	9.71	316	6.384	0
1.0	13.339	1.216	9.172	8.11	9.73	363	6.417	0
1.5	13.312	1.218	9.194	8.12	9.72	371	6.437	0
2.0	13.296	1.219	9.204	8.12	9.71	381	6.448	0
2.5	13.285	1.219	9.211	8.12	9.71	393	6.455	0
3.0	13.278	1.220	9.218	8.12	9.72	402	6.461	0
3.5	13.272	1.220	9.222	8.12	9.72	410	6.465	0
4.0	13.266	1.220	9.224	8.12	9.73	419	6.468	0
4.5	13.259	1.220	9.226	8.13	9.74	430	6.470	0
5.0	13.256	1.220	9.227	8.13	9.73	440	6.472	0
5.5	13.254	1.221	9.229	8.13	9.73	451	6.474	0
6.0	13.252	1.221	9.230	8.13	9.73	455	6.474	0
6.5	13.251	1.221	9.231	8.13	9.74	466	6.476	0
7.0	13.253	1.221	9.234	8.13	9.75	462	6.477	0
7.5	13.258	1.222	9.243	8.13	9.74	465	6.483	0
8.0	13.261	1.223	9.250	8.13	9.74	470	6.489	0
8.5	13.263	1.224	9.252	8.13	9.75	466	6.490	0
9.0	13.272	1.225	9.258	8.13	9.74	467	6.493	0
9.5	13.293	1.229	9.290	8.13	9.74	477	6.515	0
10.0	13.311	1.233	9.318	8.13	9.73	495	6.533	0
10.5	13.329	1.237	9.344	8.13	9.73	500	6.550	0
11.0	13.344	1.240	9.363	8.13	9.73	519	6.563	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C1-4 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.992	1.074	8.101	8.06	9.84	425	5.643	0
1.0	12.979	1.123	8.500	8.08	9.82	442	5.953	0
1.5	12.984	1.125	8.510	8.10	9.82	445	5.960	0
2.0	13.001	1.129	8.536	8.11	9.80	442	5.977	0
2.5	13.022	1.136	8.594	8.12	9.80	445	6.019	0
3.0	13.042	1.141	8.631	8.12	9.82	440	6.045	0
3.5	13.048	1.144	8.654	8.13	9.82	438	6.062	0
4.0	13.054	1.147	8.678	8.13	9.82	437	6.079	0
4.5	13.060	1.150	8.696	8.13	9.83	441	6.092	0
5.0	13.064	1.151	8.703	8.13	9.82	443	6.097	0
5.5	13.083	1.155	8.730	8.13	9.80	429	6.115	0
6.0	13.095	1.161	8.776	8.13	9.81	435	6.148	0
6.5	13.107	1.165	8.813	8.13	9.82	440	6.175	0
7.0	13.112	1.170	8.850	8.13	9.81	444	6.203	0
7.5	13.102	1.170	8.853	8.13	9.82	438	6.206	0
8.0	13.092	1.168	8.834	8.13	9.83	447	6.194	0
8.5	13.068	1.156	8.748	8.14	9.83	451	6.130	0
9.0	13.075	1.158	8.760	8.14	9.82	453	6.139	0
9.5	13.079	1.161	8.786	8.14	9.85	445	6.158	0
10.0	13.067	1.156	8.747	8.14	9.86	440	6.131	0
10.5	13.066	1.154	8.730	8.14	9.86	448	6.117	0
11.0	13.066	1.155	8.735	8.14	9.86	453	6.121	0
11.5	13.062	1.154	8.727	8.14	9.87	451	6.116	0
12.0	13.059	1.152	8.713	8.14	9.88	447	6.105	0
12.5	13.057	1.152	8.710	8.14	9.87	443	6.103	0
13.0	13.055	1.151	8.704	8.14	9.88	447	6.099	0
13.5	13.060	1.152	8.709	8.14	9.89	456	6.102	0
14.0	13.065	1.153	8.724	8.14	9.89	449	6.113	0
14.5	13.074	1.156	8.745	8.14	9.88	447	6.127	0
15.0	13.077	1.160	8.771	8.14	9.88	460	6.147	0
15.5	13.076	1.160	8.773	8.14	9.88	456	6.149	0
16.0	13.076	1.160	8.775	8.14	9.89	449	6.151	0
16.5	13.048	1.153	8.720	8.14	9.90	449	6.112	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-1 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.926	1.326	9.916	8.09	9.31	259	6.897	0
1.0	13.886	1.325	9.922	8.09	9.32	265	6.908	0
1.5	13.846	1.324	9.926	8.10	9.31	291	6.918	0
2.0	13.833	1.324	9.931	8.11	9.32	319	6.923	0
2.5	13.826	1.325	9.934	8.11	9.34	339	6.927	0
3.0	13.824	1.325	9.936	8.11	9.34	344	6.929	0
3.5	13.823	1.325	9.938	8.11	9.34	345	6.931	0
4.0	13.823	1.325	9.937	8.11	9.35	341	6.930	0
4.5	13.822	1.325	9.938	8.11	9.36	337	6.931	0
5.0	13.821	1.325	9.938	8.12	9.38	341	6.931	0
5.5	13.821	1.325	9.938	8.12	9.38	341	6.931	0
6.0	13.821	1.325	9.937	8.12	9.37	343	6.930	0
6.5	13.819	1.325	9.937	8.12	9.34	343	6.930	0
7.0	13.816	1.325	9.937	8.12	9.36	354	6.931	0
7.5	13.812	1.325	9.937	8.12	9.36	347	6.932	0
8.0	13.805	1.325	9.939	8.12	9.37	346	6.934	0
8.5	13.803	1.325	9.939	8.12	9.37	350	6.934	0
9.0	13.800	1.325	9.940	8.12	9.38	352	6.935	0
9.5	13.794	1.325	9.942	8.13	9.37	347	6.938	0
10.0	13.779	1.325	9.948	8.13	9.38	347	6.945	0
10.5	13.759	1.326	9.958	8.13	9.42	350	6.956	0
11.0	13.739	1.326	9.970	8.13	9.43	355	6.968	0
11.5	13.719	1.328	9.984	8.13	9.44	363	6.982	0
12.0	13.691	1.329	10.004	8.13	9.44	370	7.002	0
12.5	13.659	1.330	10.022	8.13	9.46	398	7.021	0
13.0	13.636	1.331	10.033	8.13	9.42	423	7.033	0
13.5	13.624	1.332	10.042	8.13	9.41	449	7.042	0
14.0	13.603	1.332	10.051	8.13	9.45	451	7.052	0
14.5	13.588	1.333	10.060	8.13	9.45	458	7.061	0
15.0	13.579	1.333	10.067	8.13	9.41	486	7.068	0
15.5	13.588	1.333	10.063	8.13	9.43	483	7.064	0
16.0	13.594	1.333	10.059	8.13	9.45	476	7.059	0
16.5	13.596	1.333	10.056	8.13	9.46	484	7.057	0
17.0	13.584	1.333	10.063	8.13	9.45	490	7.064	0
17.5	13.568	1.333	10.069	8.13	9.45	477	7.072	0
18.0	13.540	1.334	10.083	8.13	9.45	487	7.087	0
18.5	13.539	1.334	10.084	8.13	9.47	502	7.088	0
19.0	13.530	1.334	10.086	8.13	9.49	492	7.091	0
19.5	13.509	1.334	10.093	8.13	9.49	501	7.099	0
20.0	13.493	1.335	10.099	8.13	9.49	507	7.106	0
20.5	13.482	1.335	10.102	8.13	9.47	509	7.110	0
21.0	13.475	1.334	10.102	8.13	9.46	519	7.111	0
21.5	13.469	1.334	10.100	8.14	9.47	518	7.111	0
22.0	13.462	1.333	10.098	8.13	9.49	519	7.110	0
22.5	13.457	1.333	10.093	8.14	9.47	519	7.107	0
23.0	13.446	1.331	10.085	8.13	9.47	545	7.102	0
23.5	13.438	1.328	10.062	8.14	9.48	584	7.086	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-2a **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.872	1.335	10.004	8.08	9.40	252	6.974	0
1.0	13.832	1.334	10.005	8.09	9.42	257	6.980	0
1.5	13.823	1.332	9.995	8.10	9.44	302	6.974	0
2.0	13.820	1.331	9.990	8.10	9.46	317	6.971	0
2.5	13.817	1.330	9.984	8.11	9.48	317	6.967	0
3.0	13.813	1.329	9.976	8.11	9.48	318	6.961	0
3.5	13.810	1.328	9.969	8.11	9.50	323	6.956	0
4.0	13.808	1.328	9.969	8.12	9.54	335	6.957	0
4.5	13.805	1.329	9.971	8.12	9.51	344	6.958	0
5.0	13.802	1.329	9.974	8.12	9.53	348	6.961	0
5.5	13.787	1.329	9.982	8.12	9.54	351	6.970	0
6.0	13.764	1.330	9.992	8.12	9.51	354	6.982	0
6.5	13.742	1.330	10.002	8.13	9.52	362	6.993	0
7.0	13.719	1.331	10.011	8.13	9.53	374	7.003	0
7.5	13.708	1.331	10.017	8.13	9.56	375	7.009	0
8.0	13.701	1.331	10.020	8.13	9.55	380	7.013	0
8.5	13.696	1.331	10.022	8.13	9.56	383	7.015	0
9.0	13.685	1.332	10.028	8.13	9.59	388	7.022	0
9.5	13.672	1.332	10.036	8.13	9.59	391	7.030	0
10.0	13.650	1.334	10.051	8.13	9.59	396	7.045	0
10.5	13.629	1.335	10.065	8.13	9.58	415	7.058	0
11.0	13.620	1.335	10.072	8.13	9.61	433	7.066	0
11.5	13.596	1.336	10.086	8.13	9.61	444	7.080	0
12.0	13.558	1.336	10.093	8.12	9.61	475	7.091	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-2b **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.906	1.338	10.022	8.11	9.39	230	6.982	0
1.0	13.836	1.334	10.008	8.10	9.41	268	6.982	0
1.5	13.823	1.332	9.996	8.11	9.42	311	6.975	0
2.0	13.820	1.331	9.991	8.11	9.46	321	6.972	0
2.5	13.818	1.331	9.989	8.11	9.47	320	6.971	0
3.0	13.817	1.331	9.986	8.12	9.49	320	6.969	0
3.5	13.811	1.330	9.983	8.11	9.50	321	6.967	0
4.0	13.803	1.329	9.978	8.12	9.49	322	6.965	0
4.5	13.793	1.329	9.976	8.12	9.51	329	6.965	0
5.0	13.783	1.329	9.981	8.12	9.52	341	6.970	0
5.5	13.768	1.329	9.987	8.12	9.55	348	6.976	0
6.0	13.750	1.330	9.997	8.12	9.56	354	6.987	0
6.5	13.738	1.330	10.003	8.12	9.53	365	6.994	0
7.0	13.727	1.331	10.011	8.12	9.55	368	7.002	0
7.5	13.721	1.331	10.015	8.12	9.56	374	7.006	0
8.0	13.718	1.331	10.016	8.12	9.56	373	7.007	0
8.5	13.710	1.332	10.020	8.12	9.55	376	7.011	0
9.0	13.691	1.333	10.034	8.12	9.55	384	7.025	0
9.5	13.668	1.334	10.050	8.12	9.55	398	7.041	0
10.0	13.638	1.335	10.065	8.12	9.56	406	7.057	0
10.5	13.575	1.335	10.083	8.12	9.58	445	7.081	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-2c **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.883	1.325	9.920	8.10	9.42	254	6.908	0
1.0	13.834	1.332	9.992	8.10	9.40	298	6.970	0
1.5	13.821	1.331	9.988	8.11	9.42	317	6.970	0
2.0	13.808	1.330	9.984	8.11	9.45	323	6.968	0
2.5	13.790	1.329	9.982	8.12	9.44	329	6.969	0
3.0	13.779	1.329	9.984	8.12	9.45	332	6.973	0
3.5	13.763	1.329	9.988	8.12	9.45	336	6.979	0
4.0	13.750	1.330	9.994	8.12	9.48	336	6.985	0
4.5	13.735	1.331	10.006	8.12	9.48	360	6.997	0
5.0	13.726	1.331	10.013	8.12	9.49	376	7.003	0
5.5	13.717	1.332	10.019	8.12	9.49	371	7.009	0
6.0	13.711	1.332	10.022	8.12	9.50	376	7.013	0
6.5	13.700	1.332	10.029	8.12	9.50	383	7.020	0
7.0	13.665	1.334	10.048	8.12	9.52	395	7.040	0
7.5	13.631	1.335	10.072	8.12	9.52	415	7.063	0
8.0	13.612	1.335	10.073	8.12	9.48	427	7.067	0
8.5	13.602	1.335	10.074	8.12	9.47	433	7.070	0
9.0	13.576	1.333	10.067	8.12	9.45	448	7.068	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-3 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.920	1.330	9.952	8.10	9.59	225	6.926	0
1.0	13.822	1.330	9.980	8.10	9.60	262	6.963	0
1.5	13.803	1.330	9.980	8.11	9.58	289	6.966	0
2.0	13.792	1.329	9.981	8.11	9.59	296	6.968	0
2.5	13.770	1.329	9.983	8.11	9.59	306	6.974	0
3.0	13.734	1.329	9.992	8.11	9.58	325	6.986	0
3.5	13.708	1.329	9.998	8.12	9.61	352	6.994	0
4.0	13.695	1.328	9.999	8.12	9.62	373	6.998	0
4.5	13.682	1.328	9.998	8.12	9.60	396	6.999	0
5.0	13.685	1.328	9.997	8.12	9.60	409	6.997	0
5.5	13.686	1.328	9.997	8.12	9.59	412	6.997	0
6.0	13.686	1.328	9.999	8.12	9.60	407	6.999	0
6.5	13.681	1.328	10.001	8.12	9.62	422	7.001	0
7.0	13.661	1.328	10.001	8.12	9.63	425	7.004	0
7.5	13.654	1.327	9.998	8.12	9.63	442	7.003	0
8.0	13.656	1.327	9.995	8.13	9.64	428	7.001	0
8.5	13.657	1.327	9.994	8.13	9.64	426	7.000	0
9.0	13.661	1.327	9.995	8.13	9.63	416	7.000	0
9.5	13.646	1.326	9.993	8.13	9.61	440	7.000	0
10.0	13.660	1.327	9.994	8.13	9.61	433	6.999	0
10.5	13.671	1.328	9.997	8.13	9.63	420	7.000	0
11.0	13.672	1.328	9.999	8.13	9.62	402	7.001	0
11.5	13.670	1.328	9.999	8.13	9.64	405	7.002	0
12.0	13.665	1.328	9.999	8.13	9.64	417	7.002	0
12.5	13.676	1.328	9.999	8.13	9.64	426	7.000	0
13.0	13.667	1.328	10.001	8.13	9.65	417	7.004	0
13.5	13.644	1.327	9.998	8.13	9.66	405	7.005	0
14.0	13.631	1.326	9.993	8.13	9.67	404	7.003	0
14.5	13.622	1.325	9.989	8.13	9.66	416	7.001	0
15.0	13.616	1.325	9.987	8.13	9.66	412	7.000	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-4 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.415	1.196	8.989	8.06	9.53	303	6.264	0
1.0	13.406	1.200	9.021	8.05	9.52	328	6.291	0
1.5	13.409	1.203	9.050	8.07	9.49	344	6.312	0
2.0	13.412	1.206	9.076	8.09	9.50	346	6.332	0
2.5	13.421	1.212	9.117	8.09	9.51	349	6.362	0
3.0	13.429	1.215	9.144	8.10	9.52	352	6.381	0
3.5	13.437	1.219	9.168	8.11	9.49	354	6.399	0
4.0	13.445	1.223	9.204	8.10	9.49	354	6.425	0
4.5	13.462	1.228	9.237	8.11	9.50	357	6.448	0
5.0	13.483	1.232	9.270	8.11	9.50	361	6.470	0
5.5	13.505	1.238	9.311	8.11	9.46	363	6.498	0
6.0	13.532	1.246	9.369	8.12	9.47	368	6.538	0
6.5	13.555	1.254	9.424	8.12	9.49	367	6.578	0
7.0	13.571	1.261	9.478	8.12	9.49	349	6.616	0
7.5	13.578	1.265	9.509	8.12	9.48	341	6.639	0
8.0	13.577	1.267	9.531	8.12	9.49	336	6.656	0
8.5	13.575	1.268	9.533	8.12	9.47	336	6.658	0
9.0	13.572	1.269	9.546	8.12	9.48	340	6.669	0
9.5	13.562	1.269	9.549	8.12	9.47	343	6.673	0
10.0	13.551	1.268	9.544	8.12	9.47	346	6.670	0
10.5	13.548	1.269	9.548	8.12	9.48	357	6.674	0
11.0	13.544	1.269	9.555	8.12	9.48	370	6.680	0
11.5	13.547	1.270	9.563	8.12	9.47	378	6.686	0
12.0	13.553	1.272	9.577	8.12	9.48	375	6.695	0
12.5	13.561	1.278	9.617	8.12	9.49	374	6.725	0
13.0	13.565	1.281	9.647	8.12	9.48	380	6.748	0
13.5	13.566	1.284	9.665	8.12	9.48	383	6.761	0
14.0	13.565	1.285	9.673	8.12	9.48	384	6.767	0
14.5	13.563	1.286	9.683	8.12	9.49	383	6.776	0
15.0	13.560	1.285	9.676	8.12	9.50	387	6.770	0
15.5	13.559	1.284	9.672	8.12	9.49	390	6.768	0
16.0	13.555	1.285	9.681	8.12	9.47	395	6.775	0
16.5	13.558	1.290	9.716	8.12	9.47	396	6.802	0
17.0	13.553	1.290	9.720	8.12	9.45	402	6.805	0
17.5	13.540	1.287	9.701	8.12	9.48	406	6.793	0
18.0	13.531	1.287	9.698	8.12	9.50	409	6.792	0
18.5	13.526	1.286	9.697	8.12	9.51	409	6.792	0
19.0	13.518	1.286	9.699	8.12	9.50	421	6.795	0
19.5	13.509	1.285	9.692	8.12	9.50	427	6.790	0
20.0	13.495	1.282	9.672	8.12	9.49	433	6.778	0
20.5	13.481	1.277	9.633	8.12	9.50	447	6.750	0
21.0	13.488	1.276	9.623	8.12	9.53	441	6.741	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C2-4 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
21.5	13.487	1.275	9.614	8.12	9.52	427	6.734	0
22.0	13.482	1.276	9.619	8.12	9.50	433	6.739	0
22.5	13.456	1.270	9.582	8.12	9.53	443	6.715	0
23.0	13.425	1.260	9.503	8.13	9.53	458	6.658	0
23.5	13.421	1.258	9.495	8.13	9.53	466	6.652	0
24.0	13.420	1.260	9.508	8.13	9.56	459	6.663	0
24.5	13.425	1.264	9.538	8.13	9.55	470	6.685	0
25.0	13.431	1.267	9.563	8.13	9.54	471	6.703	0
25.5	13.421	1.265	9.547	8.13	9.54	469	6.693	0
26.0	13.409	1.260	9.509	8.12	9.53	472	6.665	0
26.5	13.408	1.259	9.500	8.13	9.53	469	6.658	0
27.0	13.412	1.260	9.512	8.13	9.57	467	6.667	0
27.5	13.413	1.264	9.538	8.13	9.55	466	6.687	0
28.0	13.410	1.266	9.555	8.13	9.56	462	6.700	0
28.5	13.404	1.263	9.538	8.13	9.57	467	6.688	0
29.0	13.399	1.261	9.520	8.13	9.55	473	6.675	0
29.5	13.408	1.265	9.554	8.13	9.55	483	6.700	0
30.0	13.422	1.272	9.606	8.12	9.56	480	6.738	0
30.5	13.420	1.273	9.612	8.12	9.56	472	6.742	0
31.0	13.409	1.270	9.594	8.12	9.55	469	6.730	0
31.5	13.397	1.267	9.570	8.12	9.56	477	6.714	0
32.0	13.385	1.264	9.552	8.13	9.59	480	6.702	0
32.5	13.376	1.262	9.534	8.13	9.60	481	6.689	0
33.0	13.370	1.258	9.505	8.13	9.58	487	6.668	0
33.5	13.366	1.258	9.501	8.13	9.57	490	6.665	0
34.0	13.369	1.260	9.519	8.13	9.60	491	6.679	0
34.5	13.371	1.262	9.534	8.13	9.60	484	6.690	0
35.0	13.365	1.261	9.528	8.13	9.60	480	6.686	0
35.5	13.353	1.257	9.498	8.13	9.61	485	6.665	0
36.0	13.347	1.256	9.493	8.13	9.61	496	6.663	0
36.5	13.346	1.256	9.492	8.13	9.58	505	6.662	0
37.0	13.345	1.255	9.483	8.13	9.59	518	6.655	0
37.5	13.346	1.255	9.480	8.13	9.59	545	6.653	0
38.0	13.345	1.254	9.473	8.13	9.45	548	6.647	0
38.5	13.350	1.249	9.434	8.13	9.16	556	6.617	0
39.0	13.359	1.250	9.440	8.13	9.13	594	6.620	0
39.5	13.386	1.262	9.530	8.13	9.09	604	6.685	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C3-1 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.569	1.391	10.555	8.09	9.46	302	7.444	0
1.0	13.566	1.477	11.255	8.09	9.44	314	7.983	0
1.5	13.566	1.477	11.255	8.10	9.44	314	7.983	0
2.0	13.565	1.477	11.254	8.10	9.44	316	7.983	0
2.5	13.563	1.477	11.255	8.10	9.44	319	7.984	0
3.0	13.560	1.477	11.256	8.10	9.43	323	7.985	0
3.5	13.556	1.477	11.258	8.10	9.45	328	7.987	0
4.0	13.554	1.477	11.258	8.10	9.45	336	7.988	0
4.5	13.545	1.477	11.262	8.10	9.45	336	7.992	0
5.0	13.537	1.477	11.265	8.10	9.46	340	7.996	0
5.5	13.533	1.478	11.267	8.11	9.45	344	7.998	0
6.0	13.532	1.478	11.267	8.11	9.46	343	7.998	0
6.5	13.533	1.477	11.266	8.11	9.45	343	7.997	0
7.0	13.533	1.477	11.267	8.11	9.46	345	7.998	0
7.5	13.535	1.478	11.266	8.11	9.46	347	7.997	0
8.0	13.538	1.478	11.265	8.11	9.46	350	7.995	0
8.5	13.543	1.477	11.263	8.11	9.46	351	7.993	0
9.0	13.542	1.477	11.263	8.11	9.46	343	7.993	0
9.5	13.539	1.477	11.264	8.11	9.45	351	7.995	0
10.0	13.542	1.477	11.263	8.11	9.47	357	7.994	0
10.5	13.541	1.477	11.263	8.11	9.46	342	7.994	0
11.0	13.540	1.477	11.264	8.11	9.46	335	7.994	0
11.5	13.541	1.477	11.263	8.11	9.46	332	7.994	0
12.0	13.541	1.477	11.263	8.11	9.45	333	7.993	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C3-2 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.466	1.478	11.292	8.09	9.45	304	8.028	0
1.0	13.464	1.479	11.299	8.09	9.46	299	8.033	0
1.5	13.462	1.480	11.305	8.10	9.47	313	8.039	0
2.0	13.461	1.480	11.308	8.11	9.46	321	8.040	0
2.5	13.460	1.480	11.310	8.11	9.46	323	8.042	0
3.0	13.459	1.480	11.313	8.11	9.45	322	8.045	0
3.5	13.456	1.481	11.318	8.11	9.44	323	8.049	0
4.0	13.453	1.482	11.325	8.11	9.44	328	8.055	0
4.5	13.452	1.482	11.331	8.11	9.45	337	8.060	0
5.0	13.451	1.483	11.334	8.11	9.46	345	8.062	0
5.5	13.451	1.483	11.335	8.11	9.47	349	8.063	0
6.0	13.452	1.483	11.335	8.11	9.48	354	8.063	0
6.5	13.454	1.483	11.334	8.11	9.47	357	8.062	0
7.0	13.456	1.483	11.333	8.11	9.47	358	8.060	0
7.5	13.460	1.483	11.331	8.11	9.46	359	8.059	0
8.0	13.463	1.483	11.330	8.11	9.47	364	8.057	0
8.5	13.466	1.483	11.329	8.11	9.47	365	8.056	0
9.0	13.475	1.483	11.327	8.11	9.47	368	8.054	0
9.5	13.481	1.483	11.326	8.11	9.46	376	8.052	0
10.0	13.485	1.483	11.325	8.11	9.47	395	8.050	0
10.5	13.488	1.483	11.323	8.11	9.47	411	8.048	0
11.0	13.494	1.482	11.316	8.11	9.46	401	8.042	0
11.5	13.498	1.481	11.308	8.11	9.46	421	8.035	0
12.0	13.500	1.481	11.306	8.11	9.47	438	8.033	0
12.5	13.506	1.480	11.291	8.12	9.47	436	8.021	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C3-4 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	13.389	1.342	10.193	8.01	9.50	292	7.194	0
1.0	13.382	1.335	10.131	8.01	9.53	291	7.148	0
1.5	13.374	1.331	10.101	8.03	9.52	294	7.126	0
2.0	13.370	1.326	10.067	8.04	9.52	296	7.100	0
2.5	13.366	1.324	10.050	8.05	9.53	297	7.088	0
3.0	13.359	1.315	9.976	8.06	9.55	296	7.032	0
3.5	13.358	1.313	9.961	8.06	9.53	298	7.020	0
4.0	13.361	1.318	9.996	8.07	9.52	302	7.047	0
4.5	13.365	1.324	10.047	8.09	9.53	301	7.086	0
5.0	13.369	1.329	10.089	8.10	9.53	299	7.117	0
5.5	13.375	1.334	10.129	8.10	9.53	300	7.147	0
6.0	13.382	1.341	10.183	8.11	9.53	300	7.187	0
6.5	13.389	1.349	10.251	8.11	9.52	297	7.239	0
7.0	13.396	1.361	10.342	8.11	9.52	295	7.308	0
7.5	13.403	1.370	10.420	8.11	9.50	300	7.367	0
8.0	13.404	1.368	10.396	8.11	9.51	312	7.348	0
8.5	13.404	1.356	10.299	8.12	9.53	312	7.274	0
9.0	13.404	1.353	10.278	8.12	9.51	303	7.258	0
9.5	13.407	1.357	10.305	8.12	9.49	300	7.278	0
10.0	13.413	1.366	10.377	8.12	9.48	302	7.332	0
10.5	13.422	1.376	10.461	8.12	9.48	305	7.396	0
11.0	13.429	1.382	10.511	8.12	9.48	304	7.432	0
11.5	13.434	1.394	10.603	8.12	9.47	305	7.503	0
12.0	13.436	1.401	10.658	8.12	9.47	309	7.545	0
12.5	13.436	1.404	10.682	8.12	9.46	314	7.564	0
13.0	13.437	1.404	10.690	8.12	9.47	315	7.569	0
13.5	13.431	1.396	10.619	8.12	9.49	309	7.516	0
14.0	13.427	1.383	10.516	8.12	9.50	302	7.437	0
14.5	13.428	1.377	10.464	8.12	9.48	299	7.397	0
15.0	13.436	1.392	10.584	8.12	9.45	305	7.488	0
15.5	13.442	1.411	10.744	8.12	9.46	316	7.610	0
16.0	13.446	1.420	10.816	8.12	9.46	326	7.665	0
16.5	13.448	1.424	10.849	8.12	9.45	329	7.690	0
17.0	13.455	1.435	10.934	8.12	9.47	330	7.754	0
17.5	13.461	1.443	11.004	8.12	9.44	330	7.807	0
18.0	13.460	1.447	11.031	8.12	9.42	327	7.828	0
18.5	13.459	1.446	11.025	8.12	9.44	328	7.824	0
19.0	13.458	1.444	11.006	8.12	9.46	329	7.809	0
19.5	13.459	1.444	11.008	8.12	9.46	328	7.810	0
20.0	13.461	1.446	11.027	8.12	9.45	329	7.825	0
20.5	13.460	1.446	11.026	8.12	9.43	333	7.824	0
21.0	13.459	1.445	11.017	8.12	9.45	327	7.817	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

Station: C3-4 **Date: 7/14/2010**

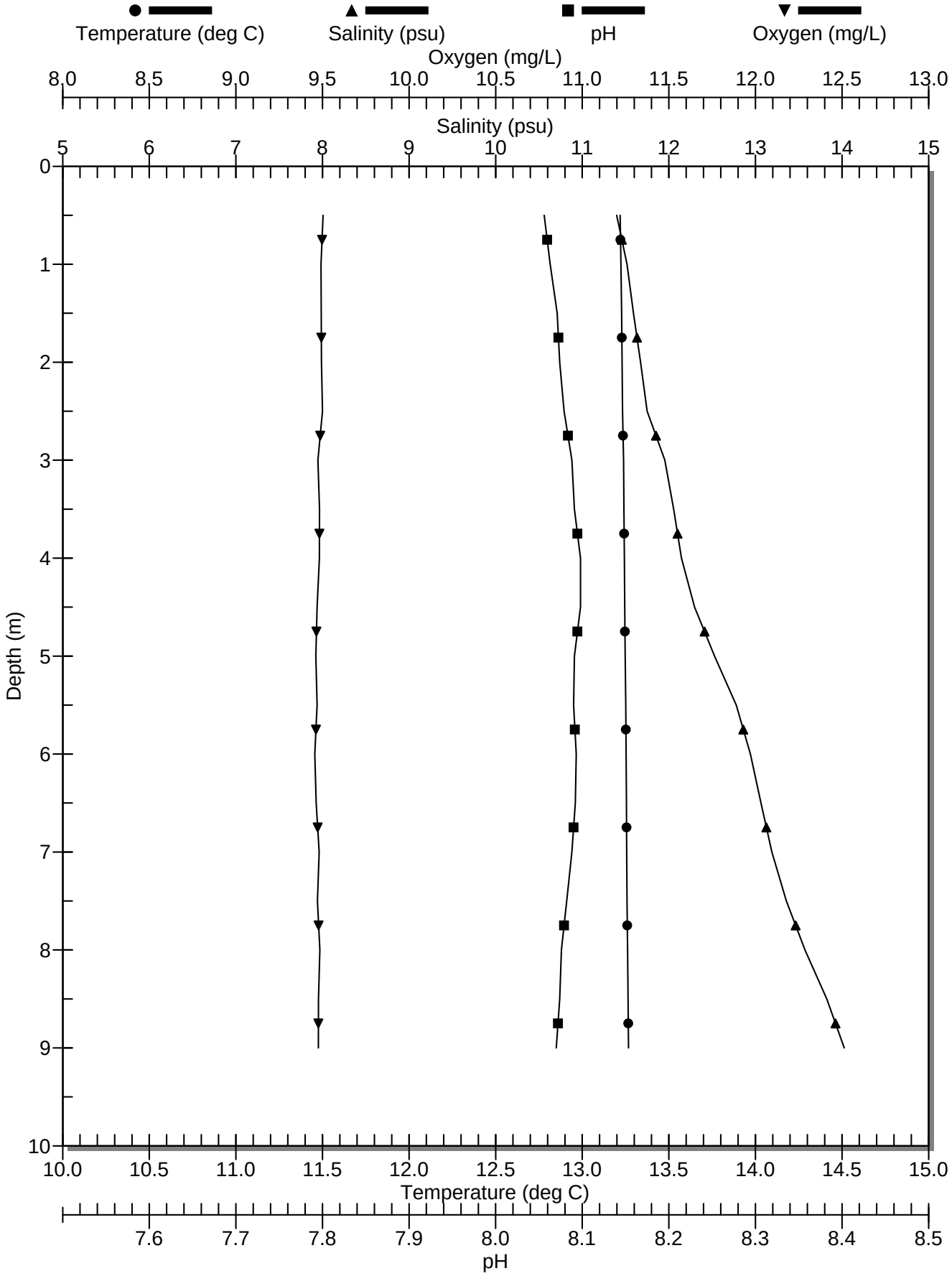
Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
21.5	13.457	1.444	11.008	8.12	9.45	328	7.811	0
22.0	13.458	1.444	11.007	8.12	9.44	326	7.809	0
22.5	13.459	1.442	10.996	8.12	9.44	324	7.801	0
23.0	13.460	1.449	11.047	8.12	9.44	326	7.840	0
23.5	13.465	1.455	11.102	8.12	9.45	330	7.881	0
24.0	13.469	1.464	11.172	8.12	9.45	334	7.935	0
24.5	13.471	1.474	11.249	8.12	9.45	339	7.994	0
25.0	13.474	1.476	11.267	8.12	9.43	341	8.007	0
25.5	13.476	1.474	11.250	8.11	9.42	341	7.994	0
26.0	13.476	1.471	11.223	8.12	9.44	340	7.973	0
26.5	13.473	1.466	11.186	8.12	9.44	336	7.945	0
27.0	13.471	1.463	11.163	8.12	9.45	332	7.927	0
27.5	13.469	1.471	11.224	8.12	9.45	336	7.975	0
28.0	13.466	1.479	11.298	8.12	9.43	343	8.032	0
28.5	13.462	1.483	11.334	8.11	9.42	347	8.060	0
29.0	13.456	1.485	11.351	8.11	9.42	347	8.074	0
29.5	13.454	1.486	11.359	8.11	9.42	348	8.081	0
30.0	13.452	1.487	11.362	8.11	9.42	350	8.084	0
30.5	13.452	1.487	11.363	8.12	9.43	352	8.084	0
31.0	13.453	1.486	11.356	8.11	9.45	352	8.079	0
31.5	13.453	1.486	11.356	8.11	9.46	352	8.079	0
32.0	13.452	1.486	11.359	8.12	9.43	351	8.082	0
32.5	13.453	1.486	11.354	8.11	9.45	351	8.078	0
33.0	13.457	1.484	11.336	8.12	9.46	352	8.063	0
33.5	13.462	1.478	11.288	8.12	9.44	350	8.025	0
34.0	13.463	1.472	11.238	8.12	9.44	343	7.986	0
34.5	13.456	1.470	11.220	8.12	9.45	338	7.974	0
35.0	13.449	1.468	11.206	8.12	9.46	335	7.964	0
35.5	13.447	1.466	11.196	8.12	9.47	333	7.956	0
36.0	13.446	1.465	11.186	8.12	9.48	331	7.950	0
36.5	13.445	1.466	11.190	8.12	9.47	332	7.953	0
37.0	13.445	1.466	11.192	8.12	9.48	332	7.954	0
37.5	13.448	1.466	11.189	8.12	9.49	332	7.951	0
38.0	13.453	1.466	11.190	8.12	9.47	333	7.951	0
38.5	13.458	1.466	11.185	8.12	9.47	333	7.947	0
39.0	13.459	1.463	11.161	8.12	9.46	333	7.928	0
39.5	13.458	1.462	11.153	8.12	9.46	330	7.922	0
40.0	13.458	1.462	11.158	8.12	9.48	328	7.926	0
40.5	13.459	1.463	11.164	8.12	9.48	331	7.930	0
41.0	13.460	1.464	11.168	8.12	9.47	336	7.933	0
41.5	13.464	1.457	11.115	8.12	9.46	333	7.892	0
42.0	13.460	1.466	11.184	8.12	9.47	340	7.946	0

Asplund WPCF - 2010 Receiving Water Hydrographic Data

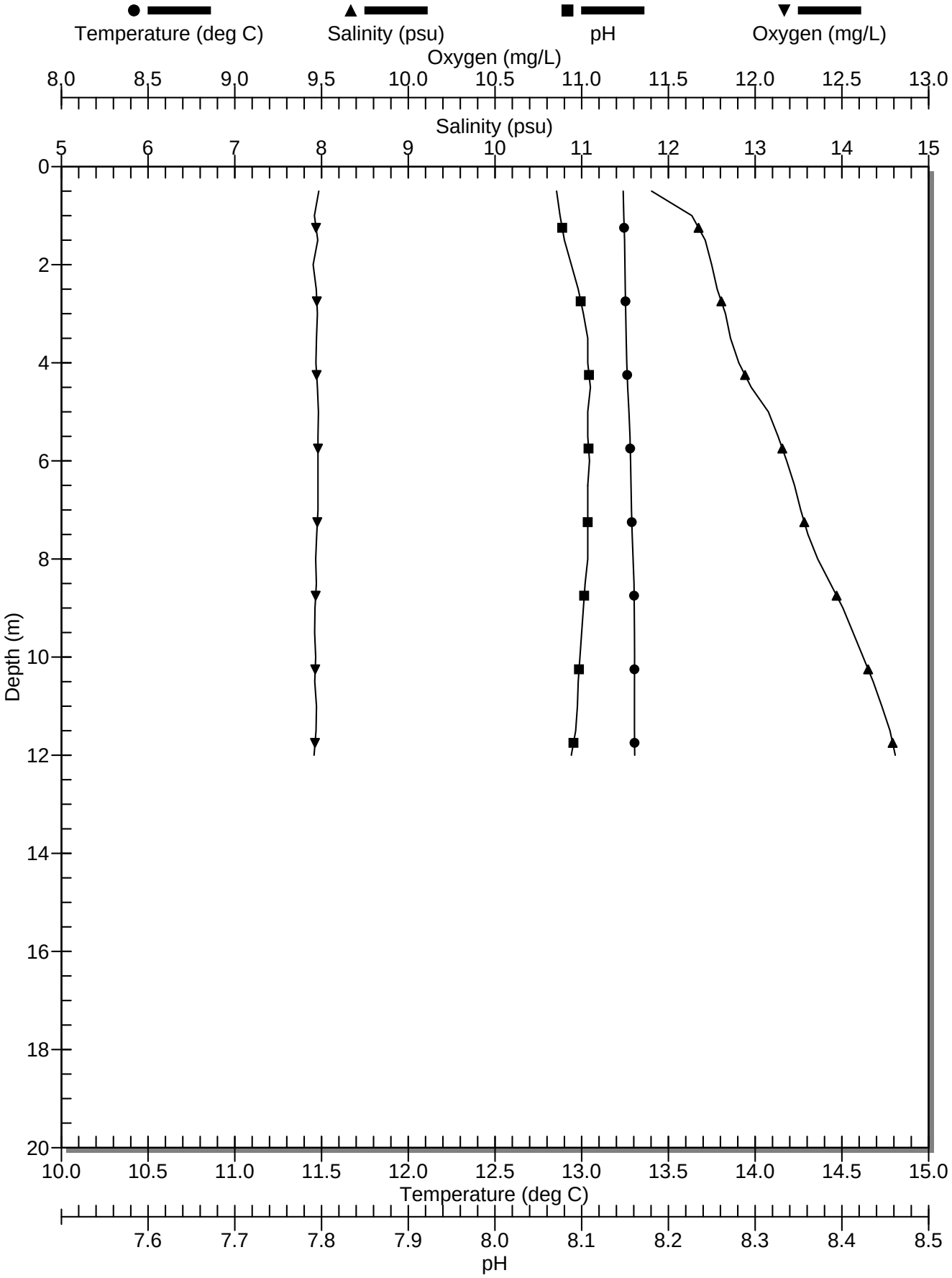
Station: C3-4 **Date: 7/14/2010**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
42.5	13.458	1.467	11.198	8.12	9.45	329	7.957	0
43.0	13.454	1.470	11.219	8.12	9.46	325	7.973	0
43.5	13.453	1.468	11.209	8.12	9.47	329	7.966	0
44.0	13.453	1.465	11.178	8.12	9.46	334	7.942	0
44.5	13.453	1.464	11.176	8.12	9.47	333	7.940	0
45.0	13.452	1.467	11.201	8.12	9.46	332	7.960	0
45.5	13.450	1.472	11.238	8.12	9.45	334	7.989	0
46.0	13.448	1.476	11.274	8.12	9.44	335	8.017	0
46.5	13.445	1.478	11.288	8.12	9.45	344	8.028	0
47.0	13.441	1.479	11.300	8.12	9.45	352	8.037	0
47.5	13.429	1.482	11.329	8.12	9.44	348	8.062	0
48.0	13.427	1.482	11.332	8.12	9.34	348	8.065	0
48.5	13.427	1.482	11.325	8.12	9.37	355	8.059	0
49.0	13.425	1.486	11.361	8.12	9.41	365	8.087	0
49.5	13.424	1.487	11.375	8.12	9.41	357	8.098	0
50.0	13.423	1.488	11.382	8.12	9.43	358	8.103	0
50.5	13.423	1.488	11.380	8.12	9.41	356	8.102	0
51.0	13.425	1.488	11.375	8.12	9.42	354	8.098	0
51.5	13.429	1.486	11.364	8.12	9.41	350	8.089	0
52.0	13.434	1.484	11.343	8.12	9.39	341	8.072	0
52.5	13.438	1.482	11.327	8.12	9.40	338	8.059	0
53.0	13.440	1.481	11.317	8.12	9.42	335	8.051	0
53.5	13.439	1.480	11.308	8.12	9.42	331	8.044	0
54.0	13.433	1.481	11.321	8.12	9.41	326	8.055	0
54.5	13.426	1.487	11.370	8.12	9.39	330	8.094	0
55.0	13.421	1.490	11.395	8.12	9.40	346	8.114	0
55.5	13.420	1.491	11.400	8.12	9.41	355	8.118	0
56.0	13.419	1.491	11.407	8.12	9.42	362	8.124	0
56.5	13.418	1.493	11.420	8.12	9.40	367	8.134	0
57.0	13.417	1.494	11.428	8.12	9.40	373	8.140	0
57.5	13.417	1.494	11.429	8.12	9.40	374	8.141	0
58.0	13.417	1.494	11.428	8.12	9.40	377	8.140	0
58.5	13.417	1.493	11.425	8.12	9.39	400	8.138	0
59.0	13.416	1.494	11.428	8.12	9.38	411	8.140	0
59.5	13.416	1.494	11.431	8.12	9.38	401	8.142	0
60.0	13.415	1.494	11.430	8.12	9.39	413	8.142	0
60.5	13.415	1.492	11.412	8.12	9.46	446	8.128	0

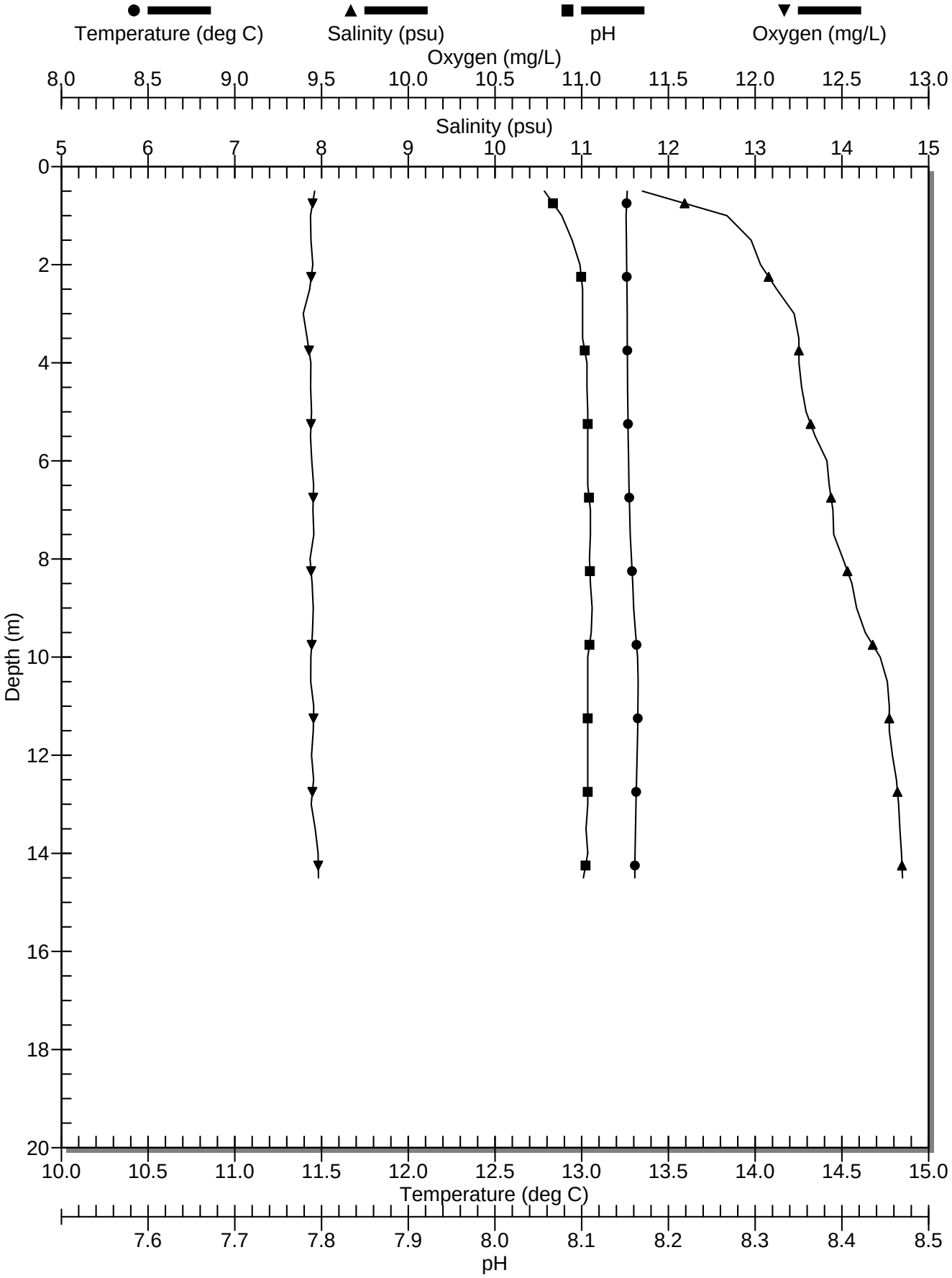
ASPLUND WPCF - Hydrographic Data - July 2010, uE1-1.cnv



ASPLUND WPCF - Hydrographic Data - July 2010, uE1-2.cnv



ASPLUND WPCF - Hydrographic Data - July 2010, uE1-3.cnv



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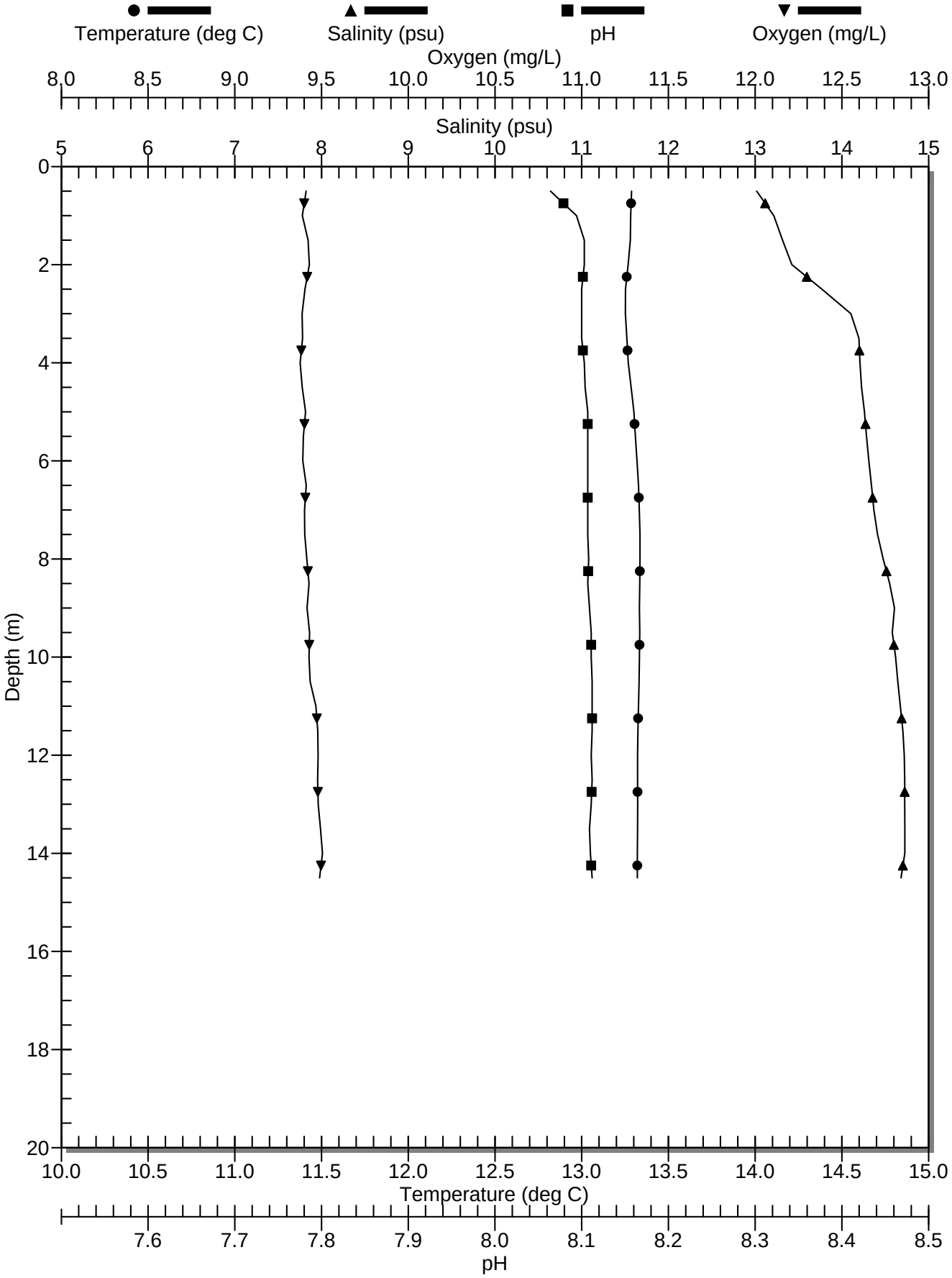

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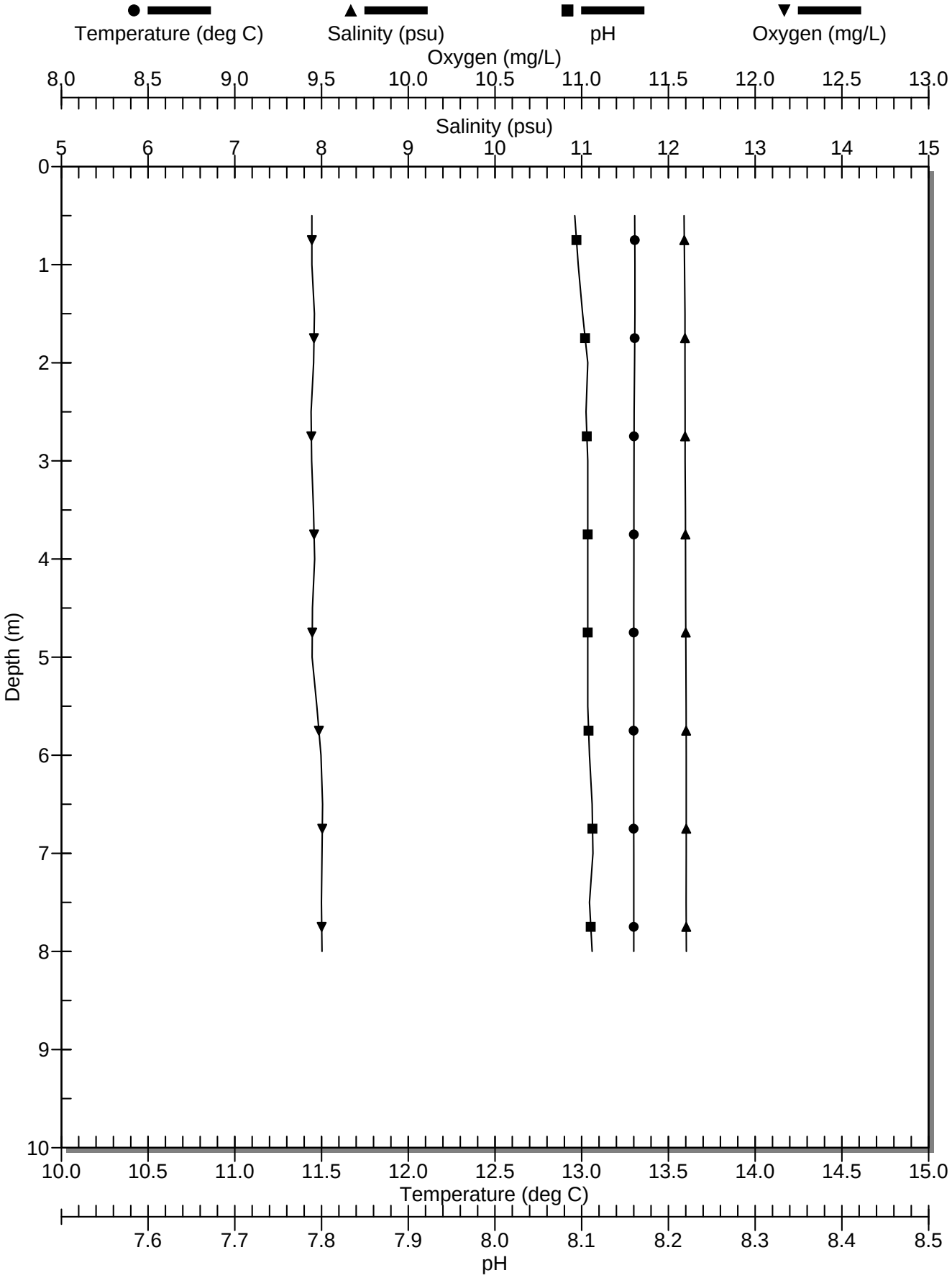

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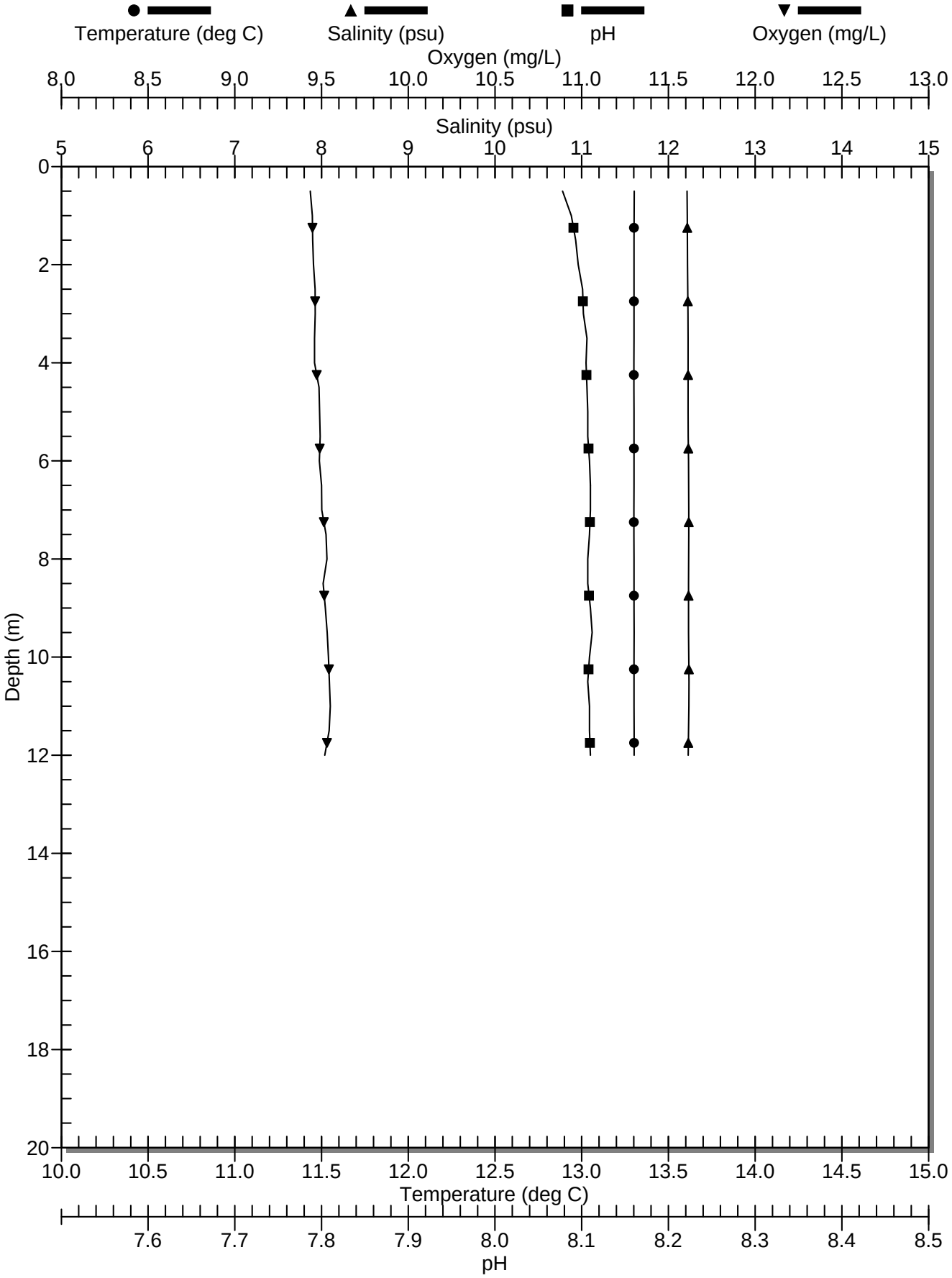

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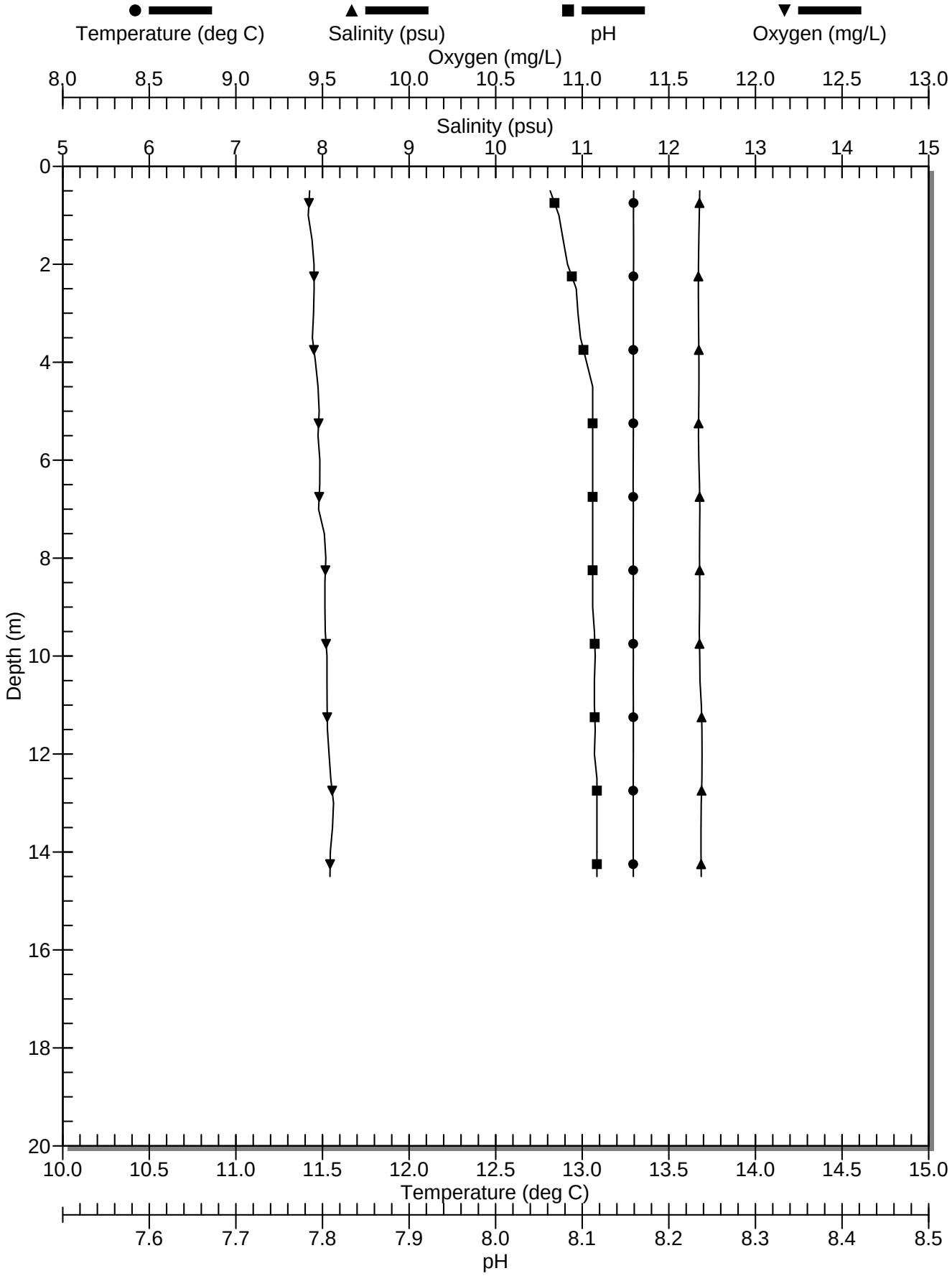

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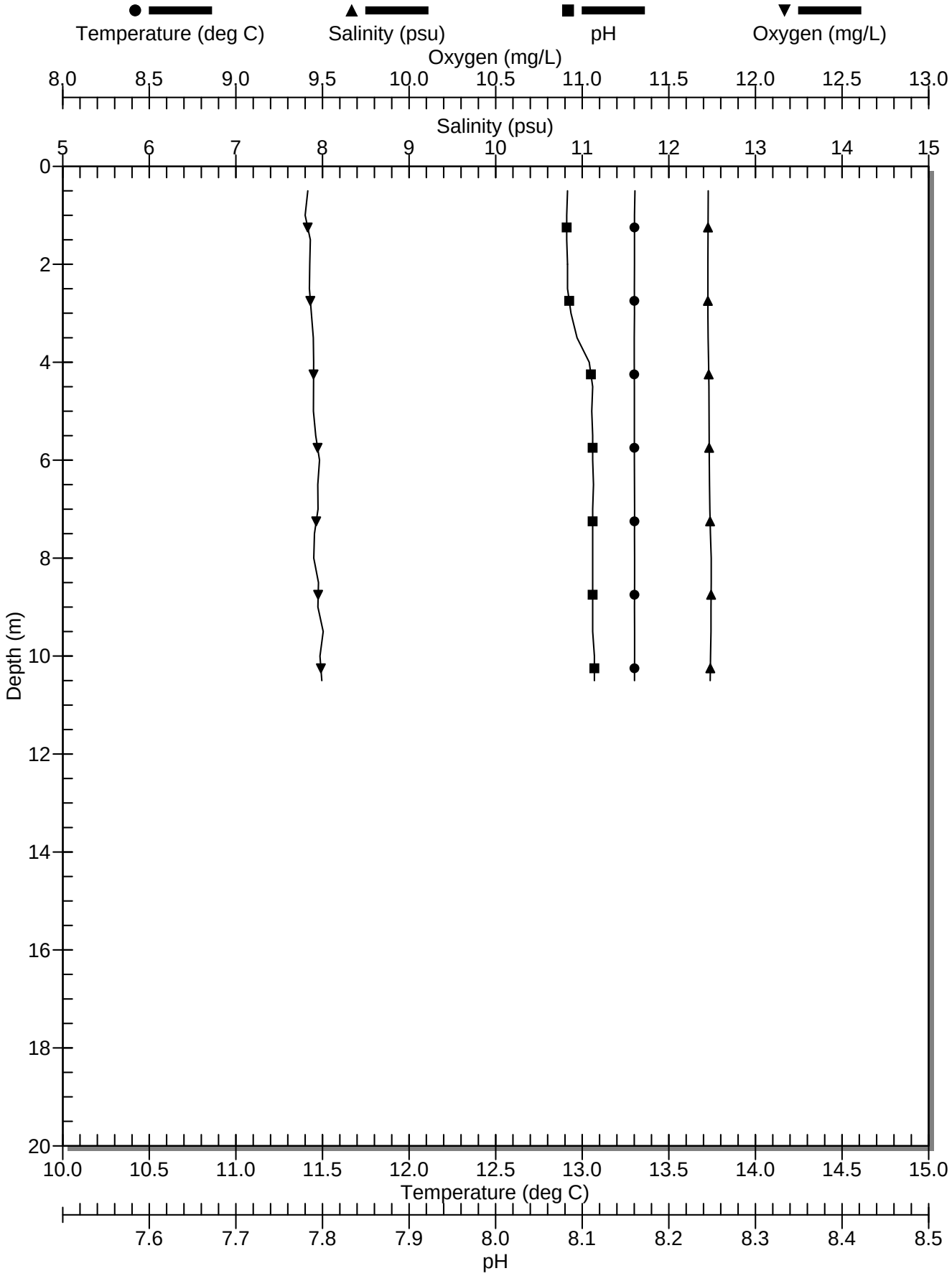

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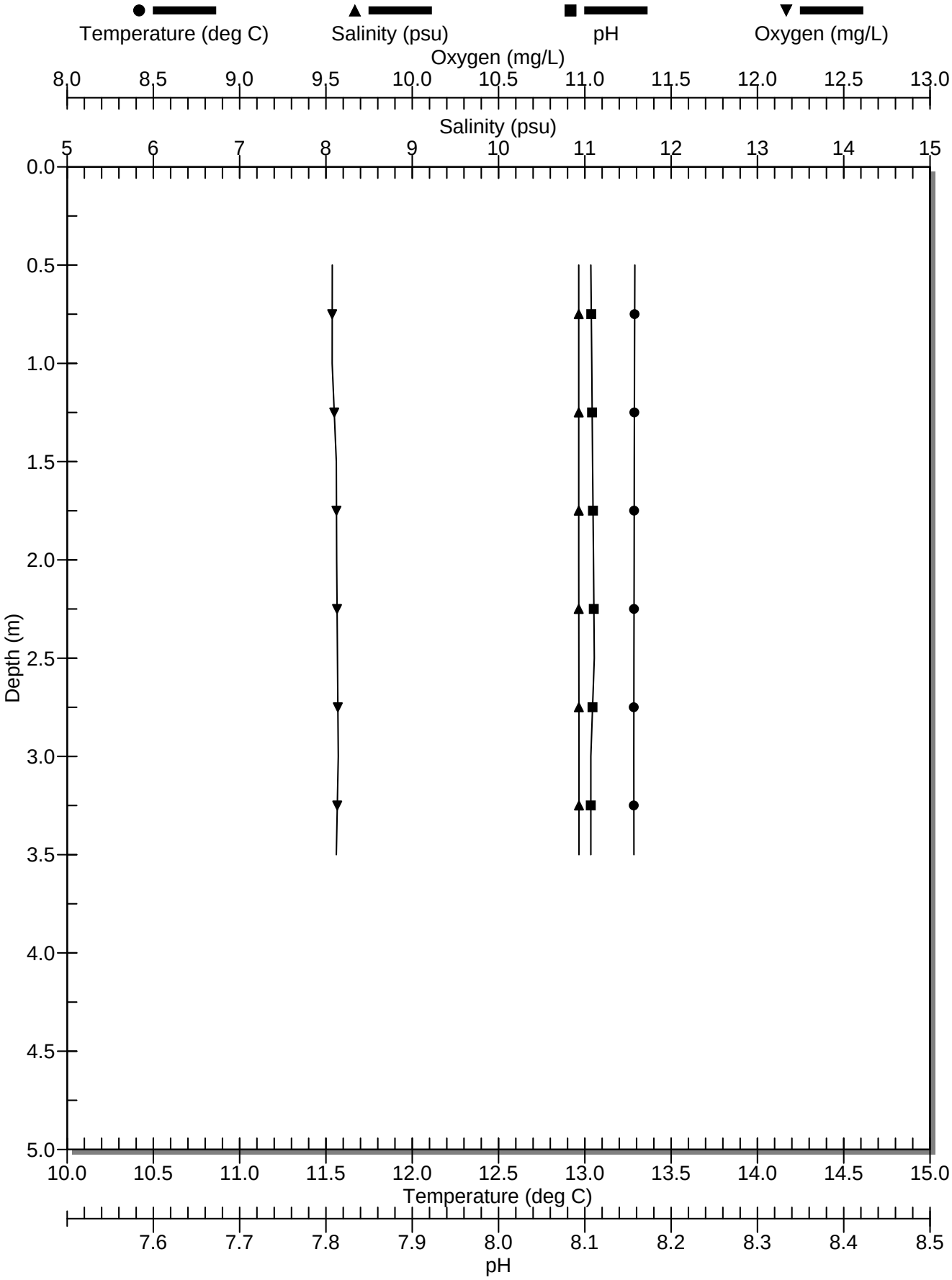

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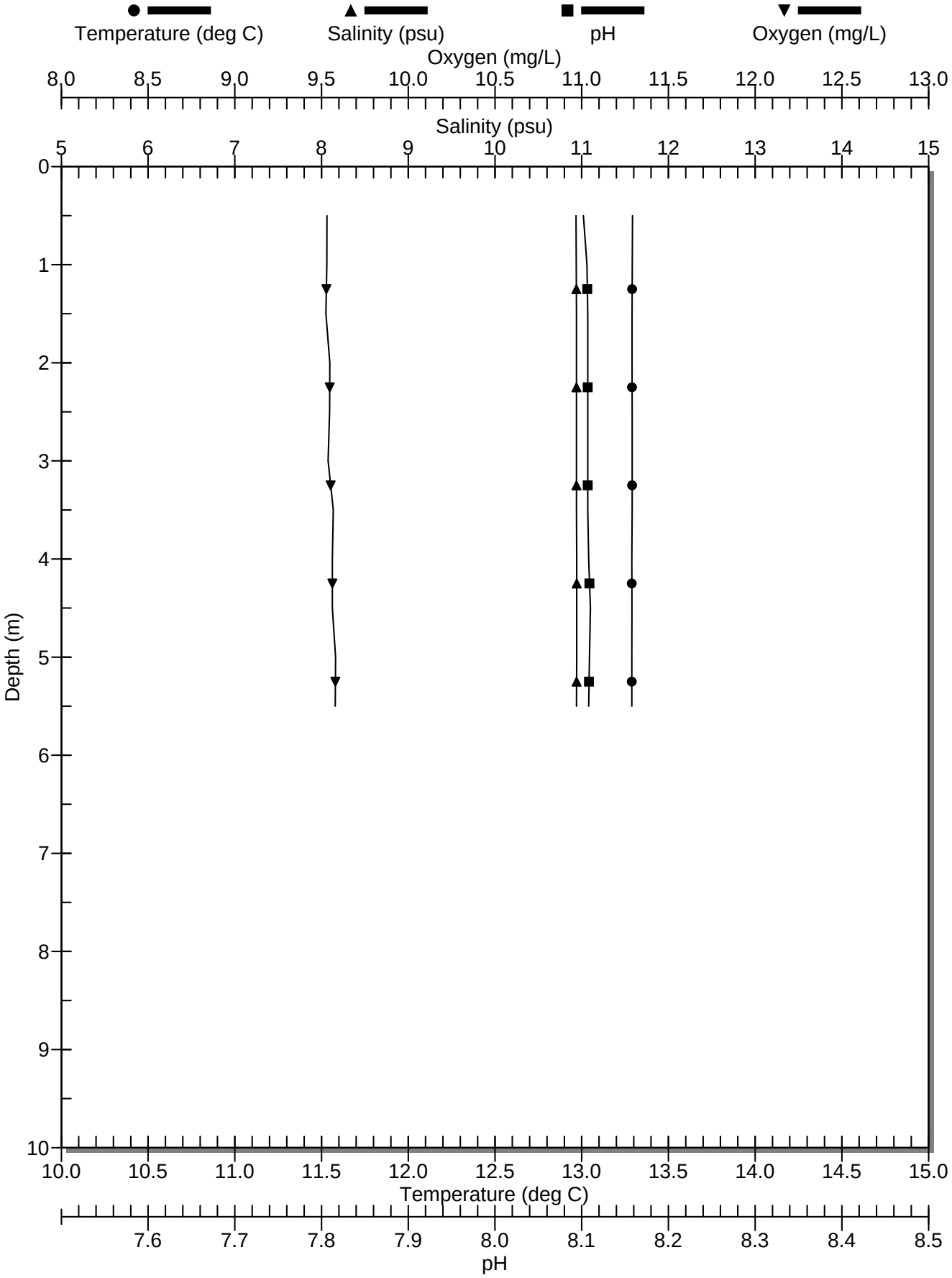

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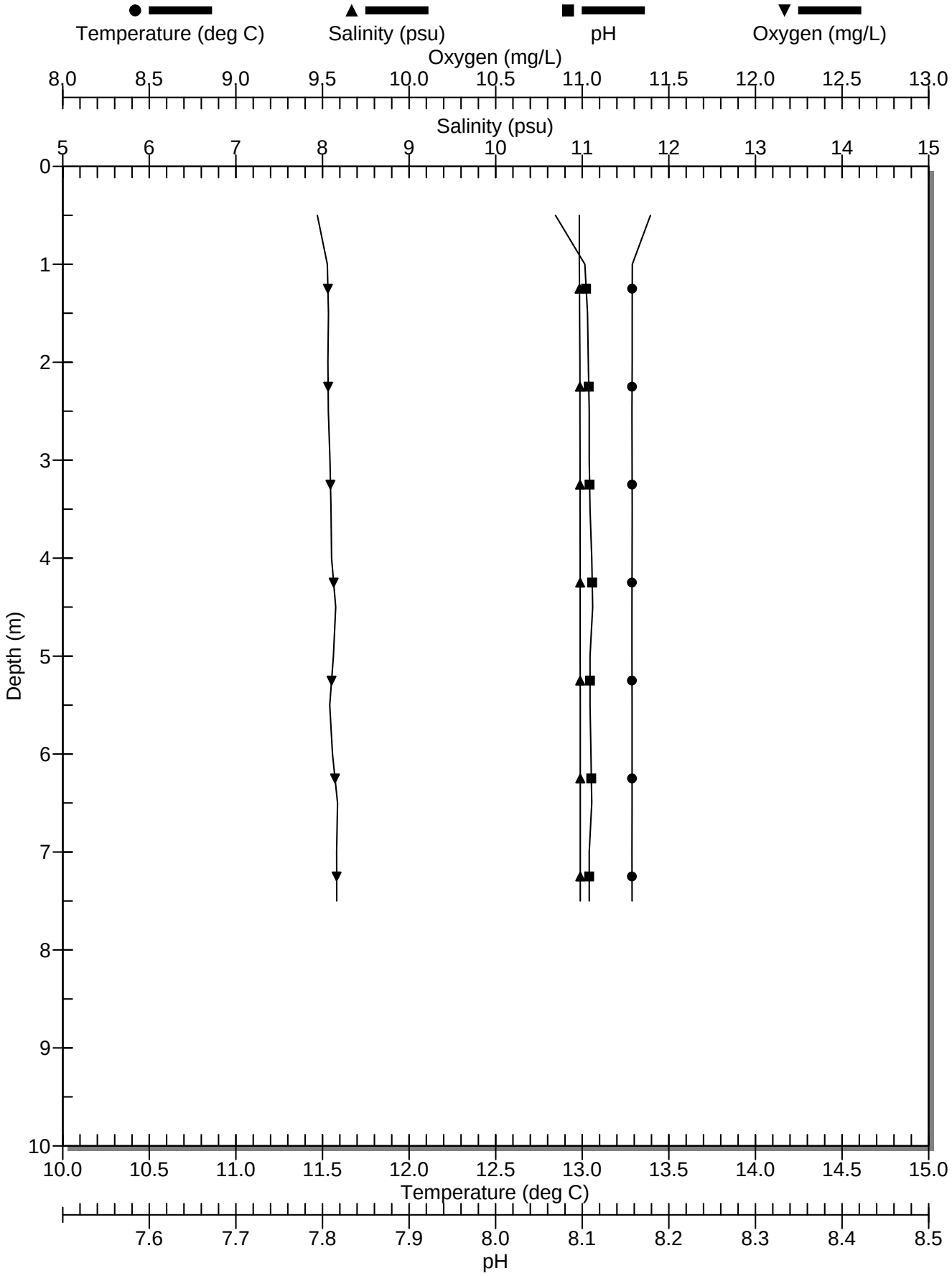

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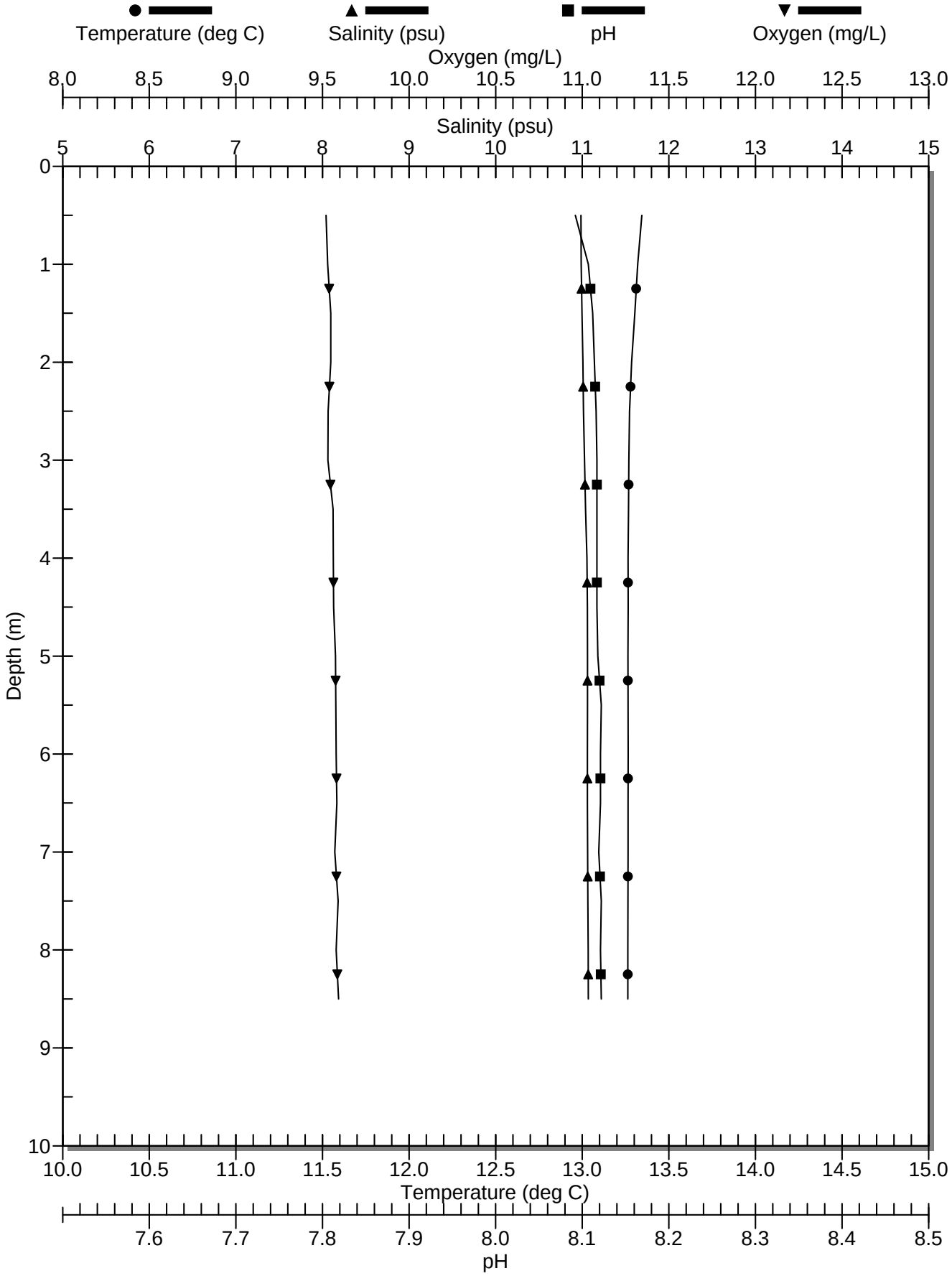
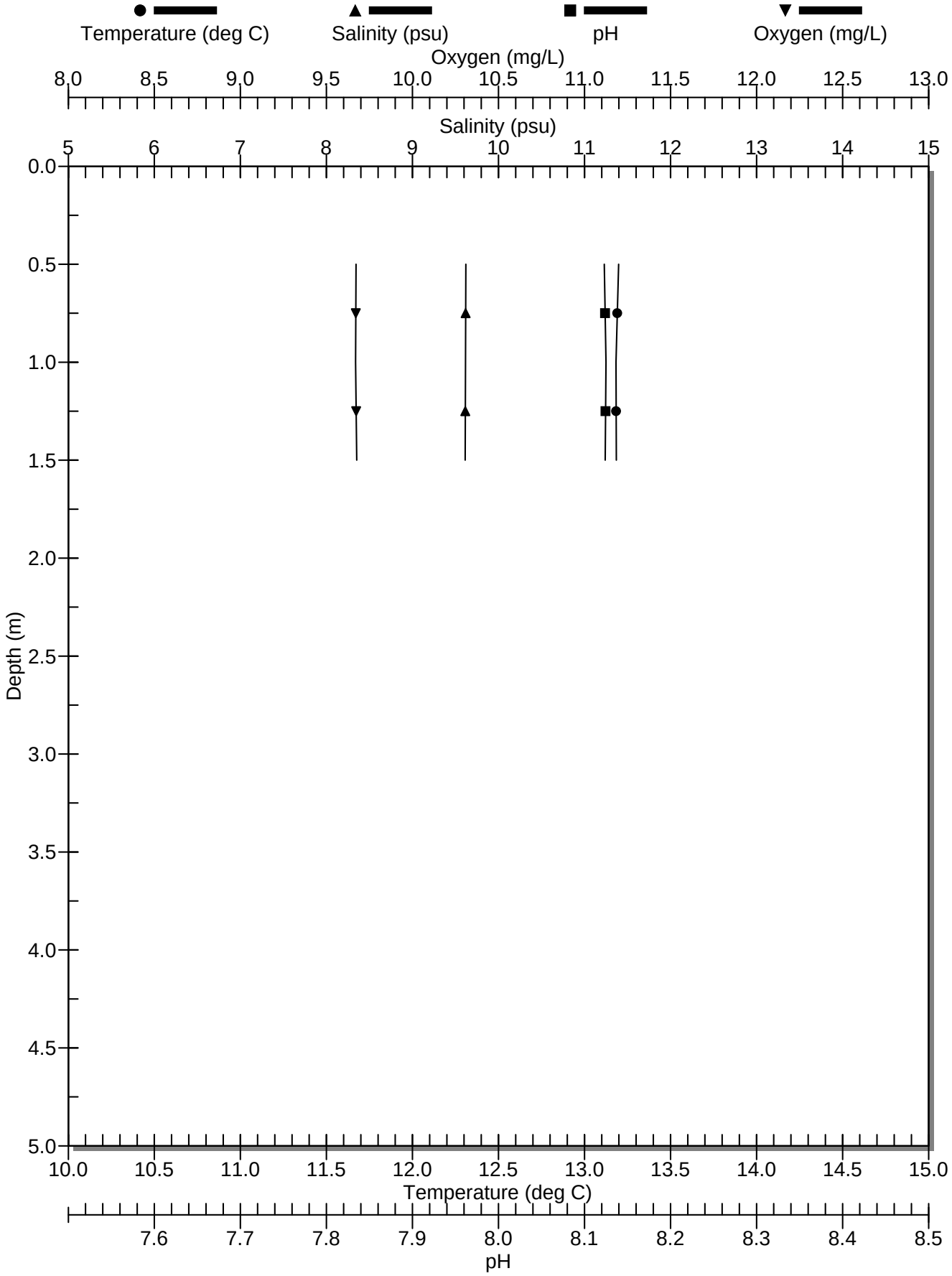


ASPLUND WPCF - Hydrographic Data - July 2010, uF1-1.cnv



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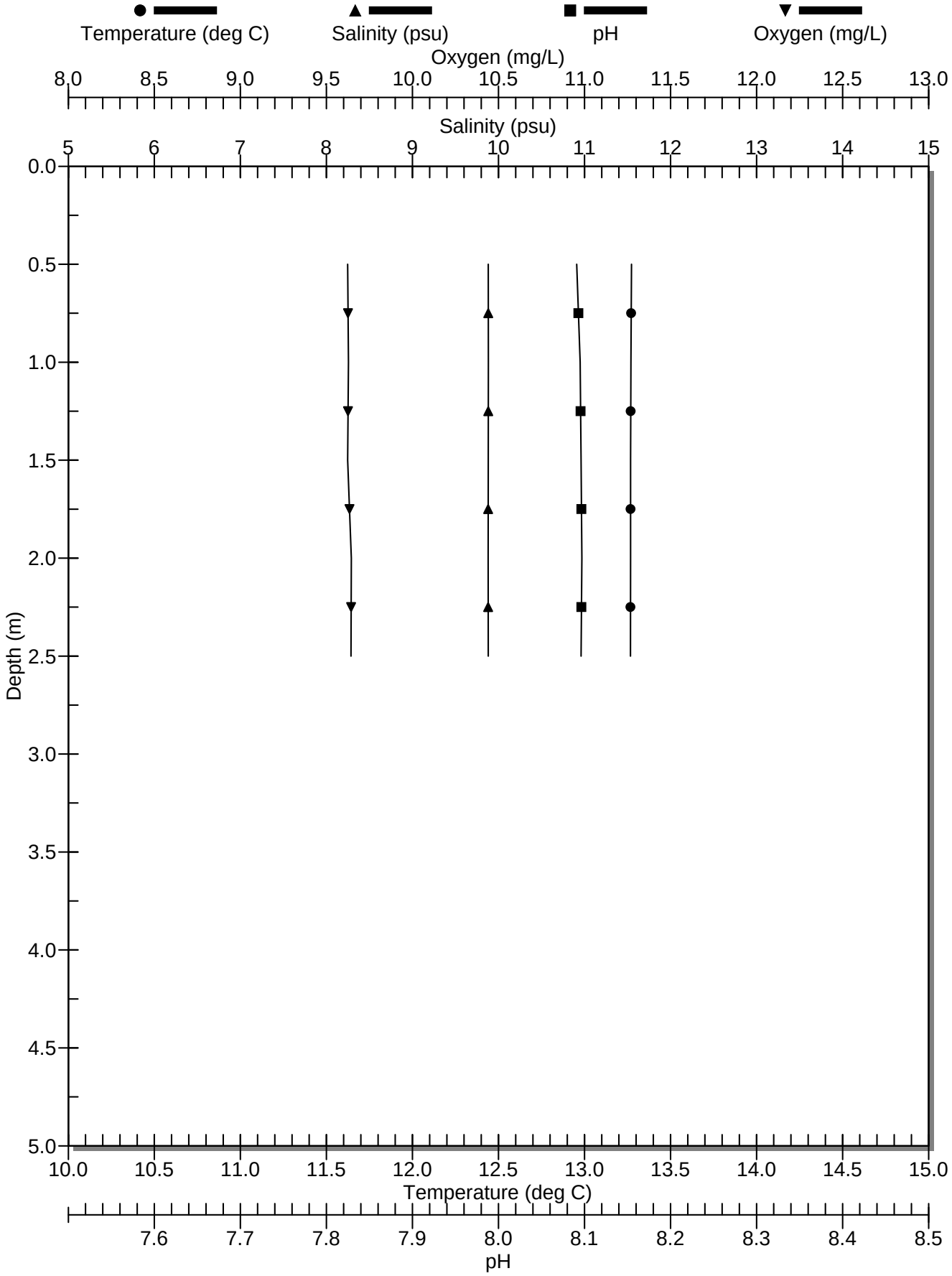

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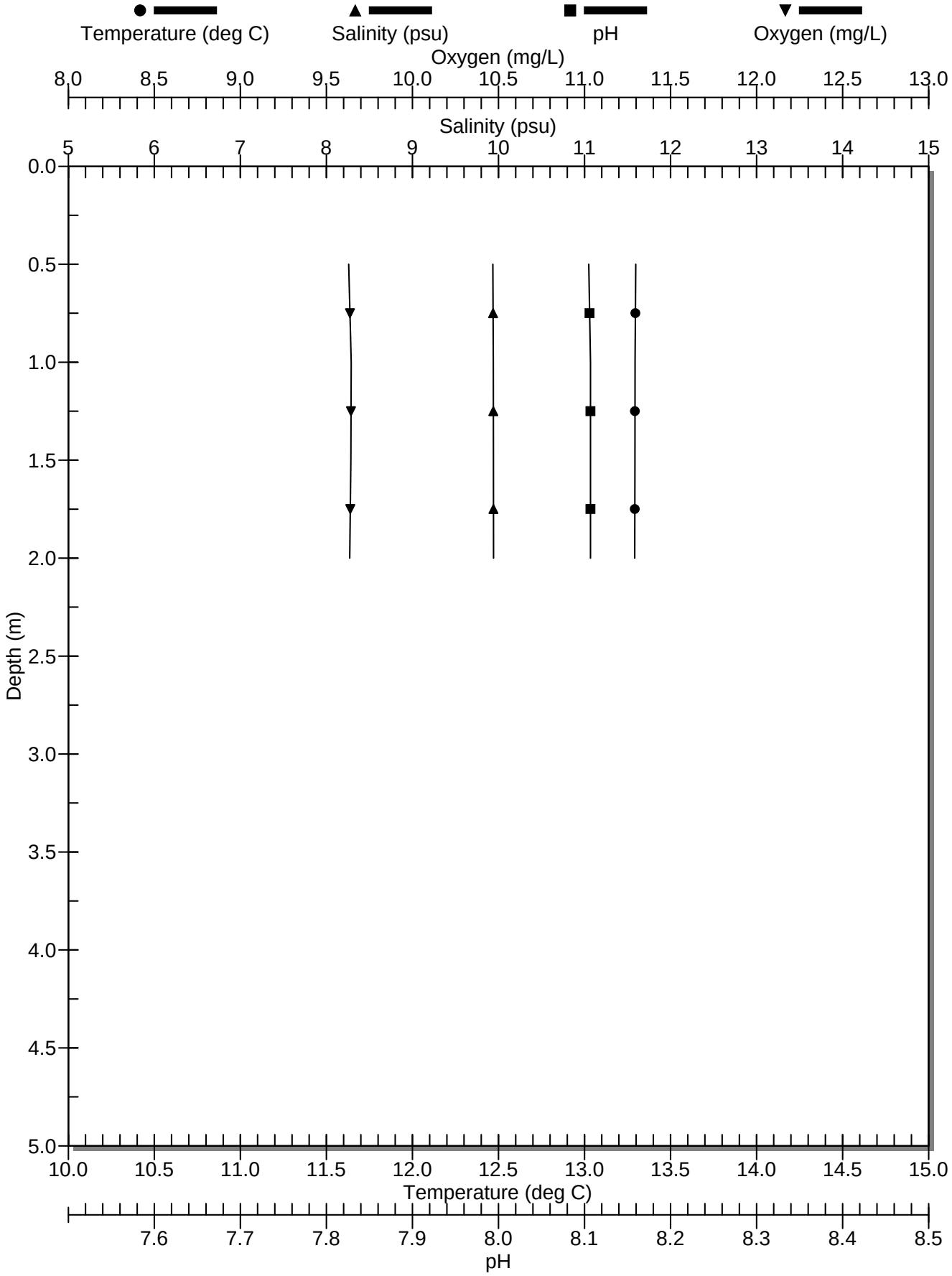
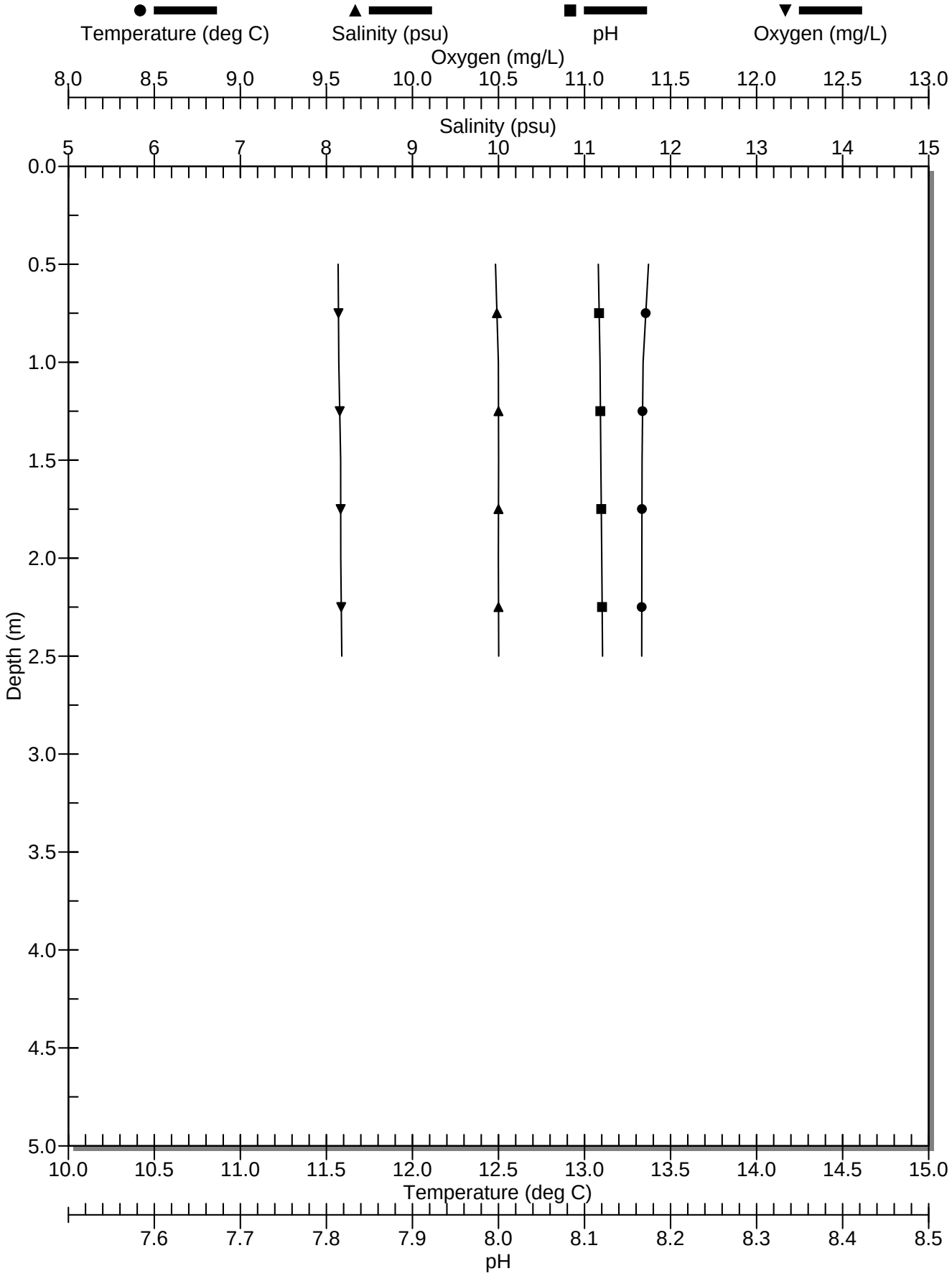


ASPLUND WPCF - Hydrographic Data - July 2010, uF1-4.cnv



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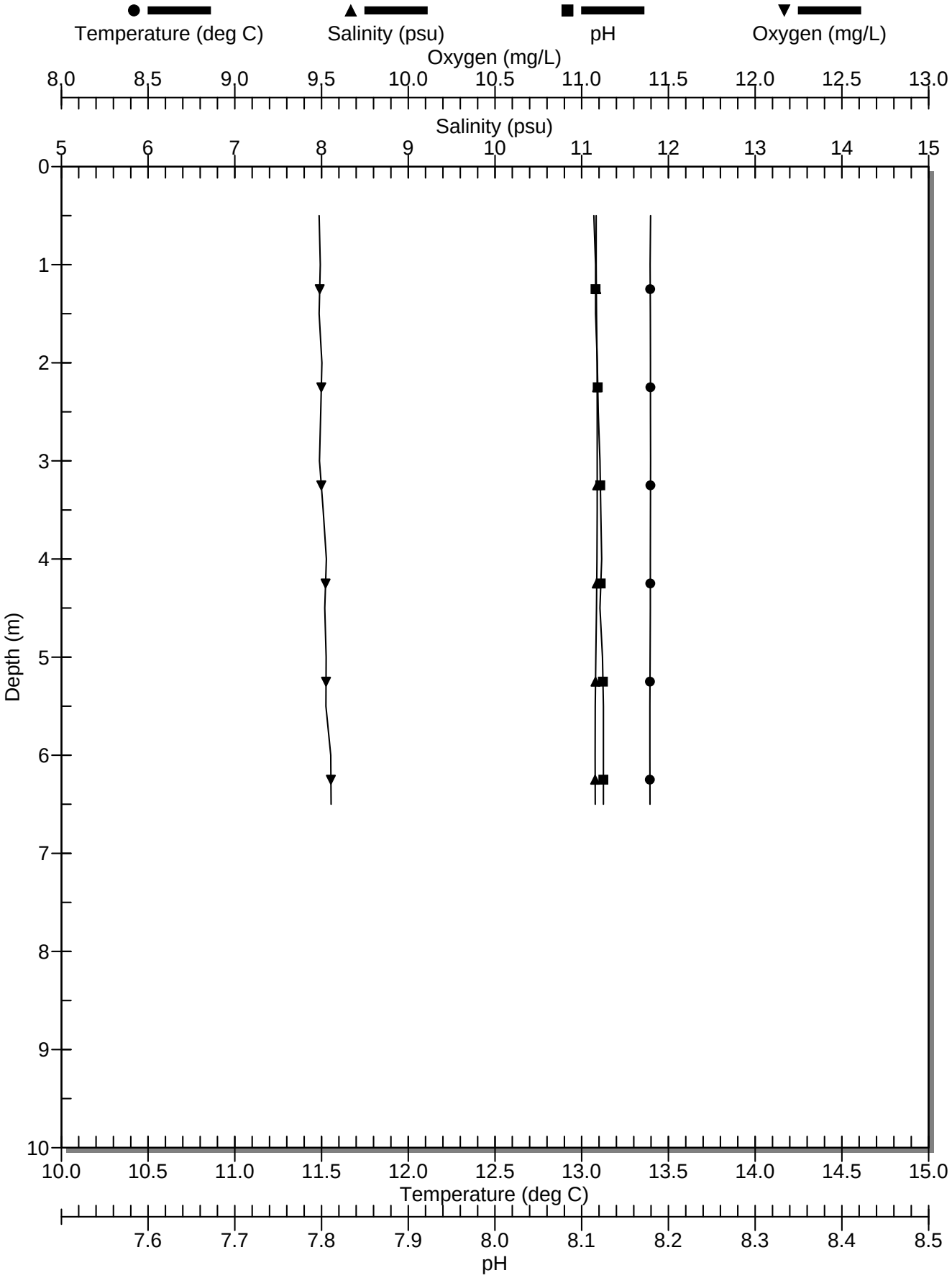

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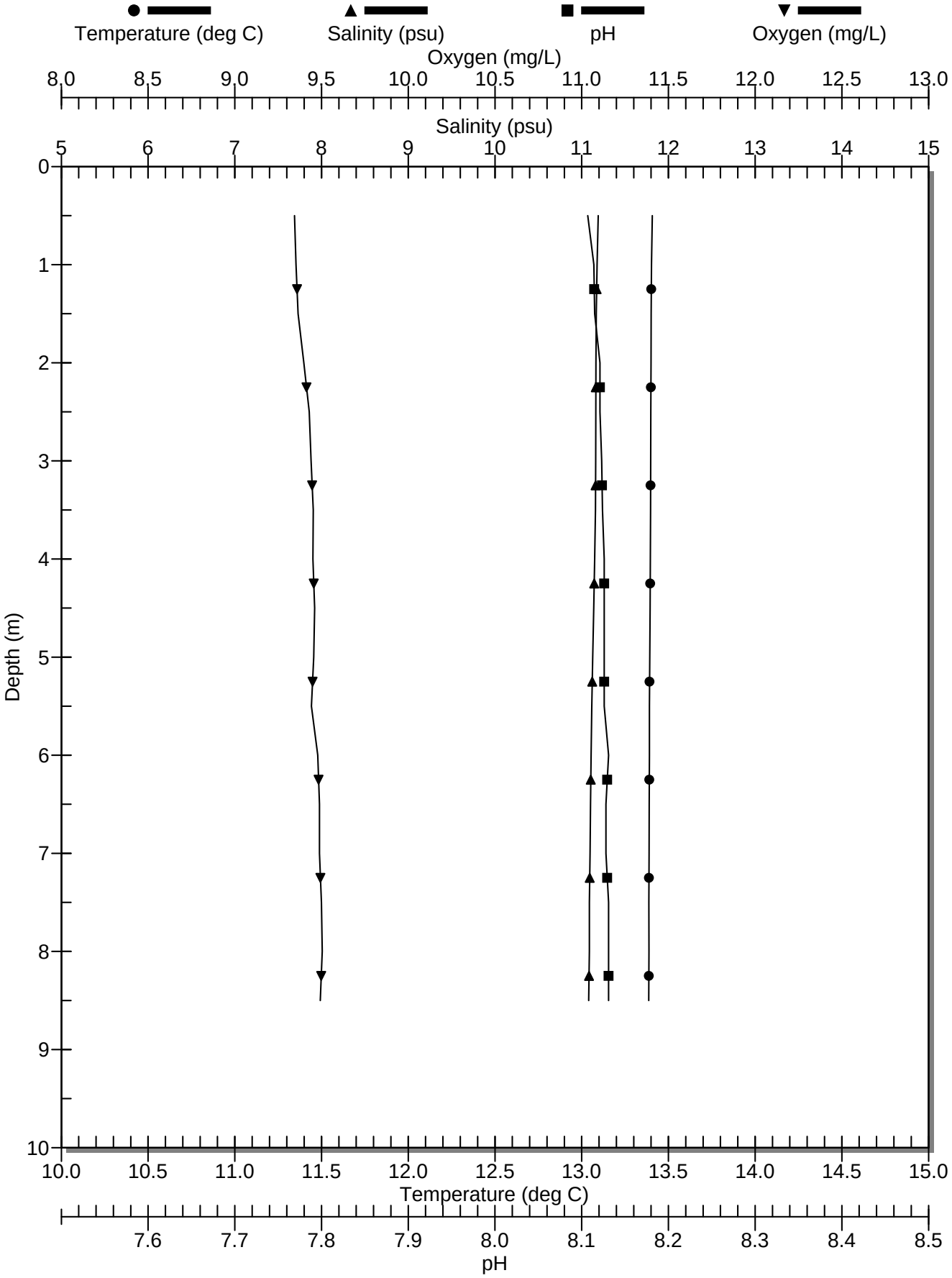

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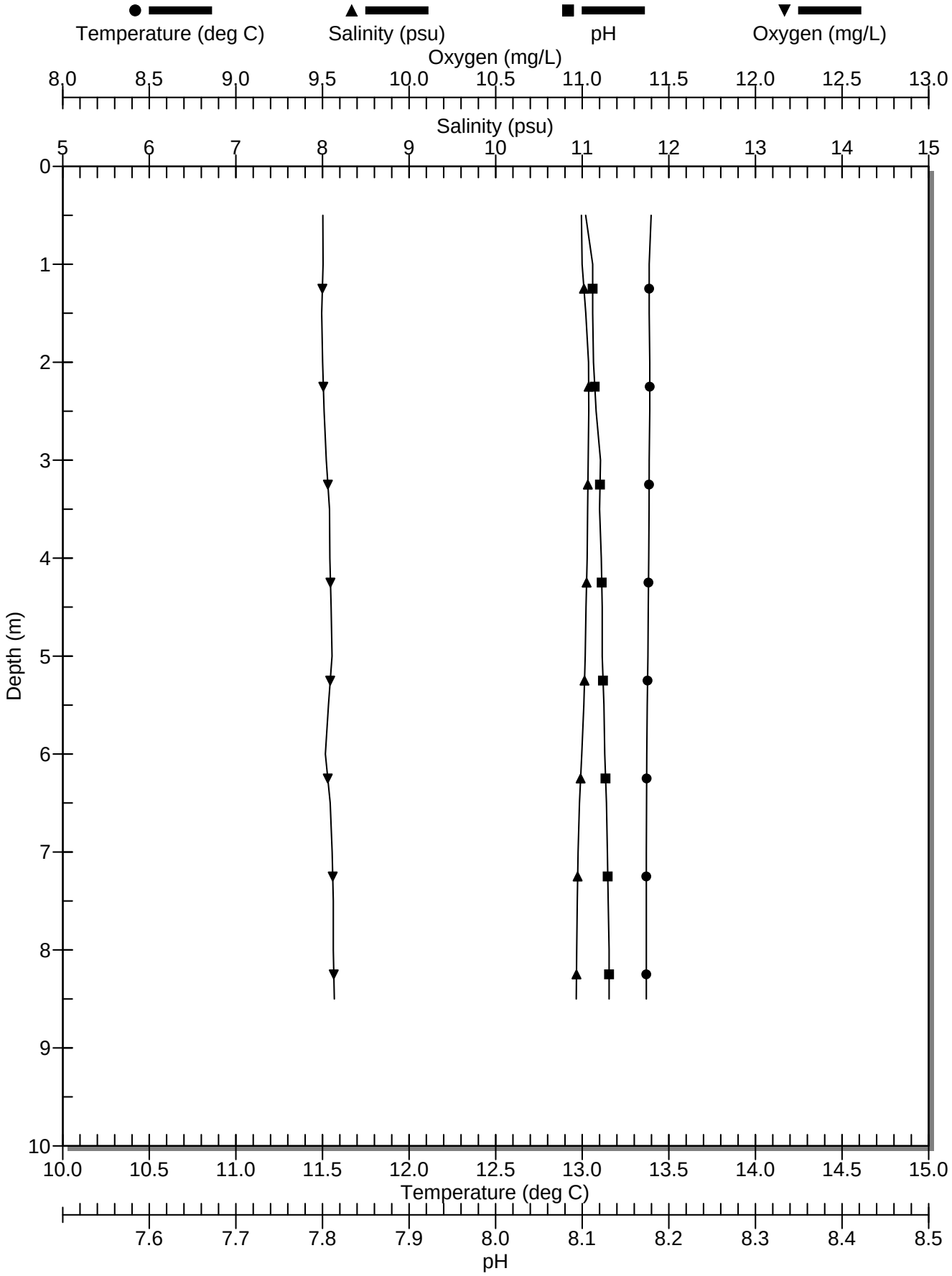

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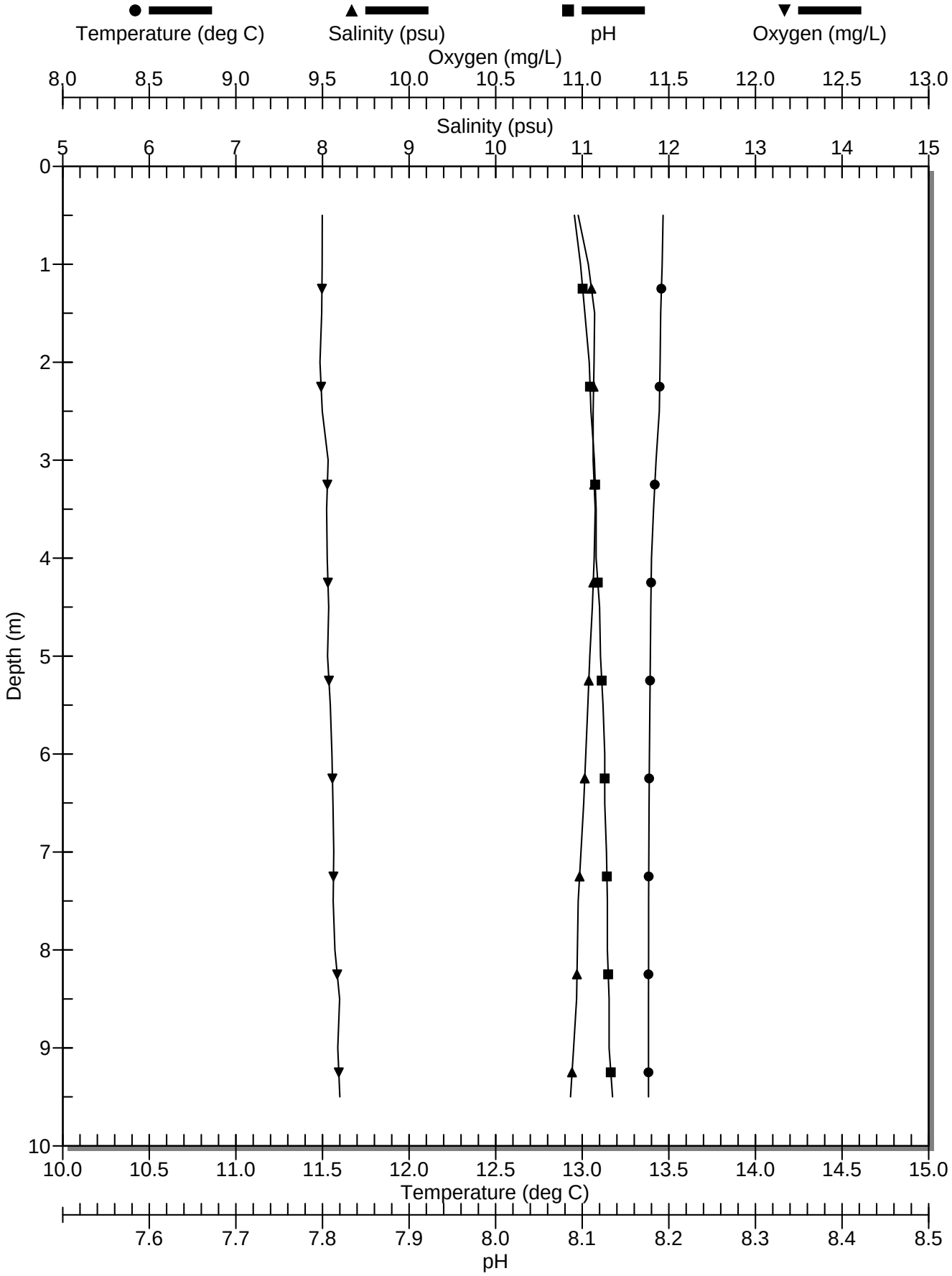

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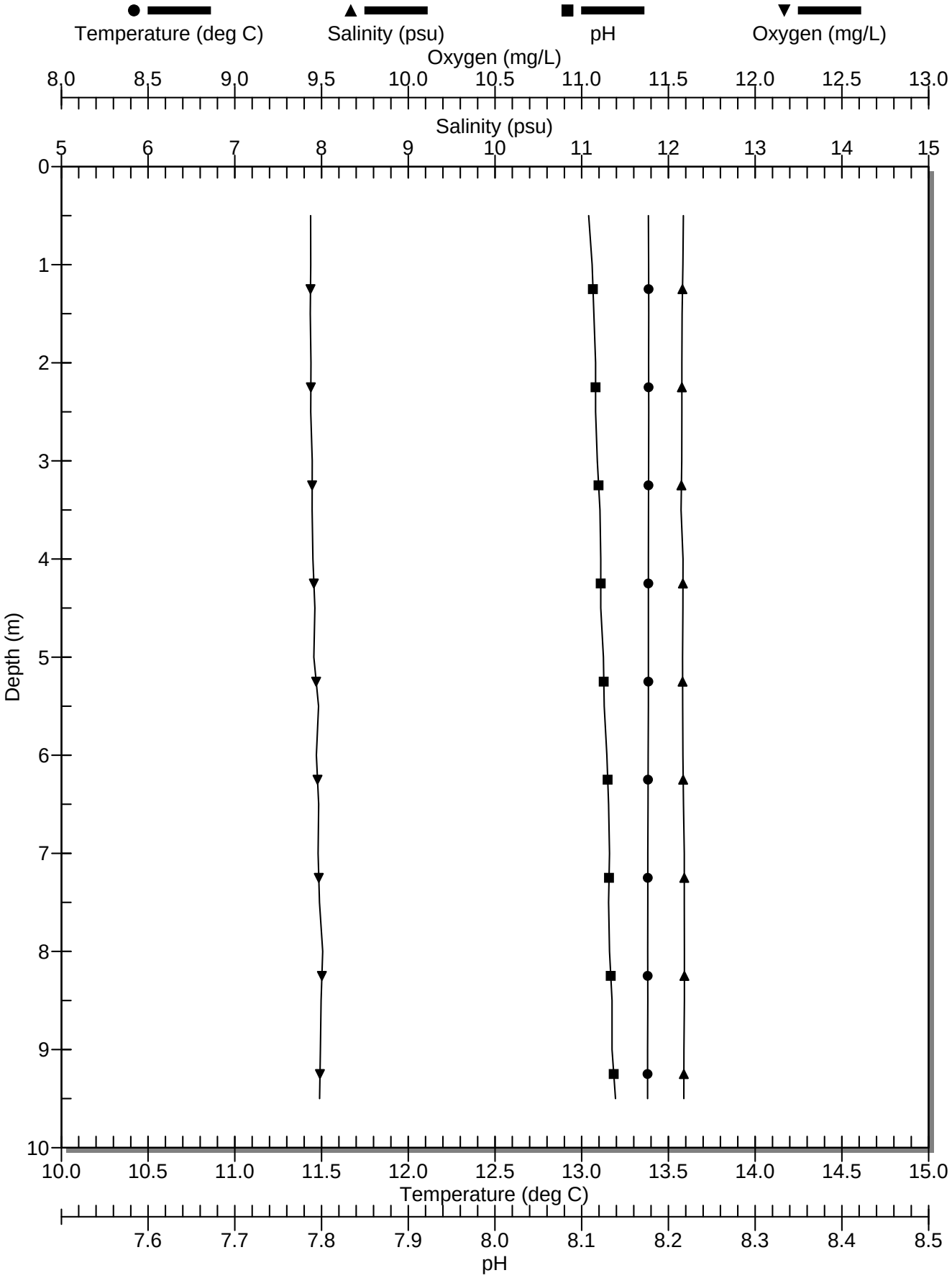

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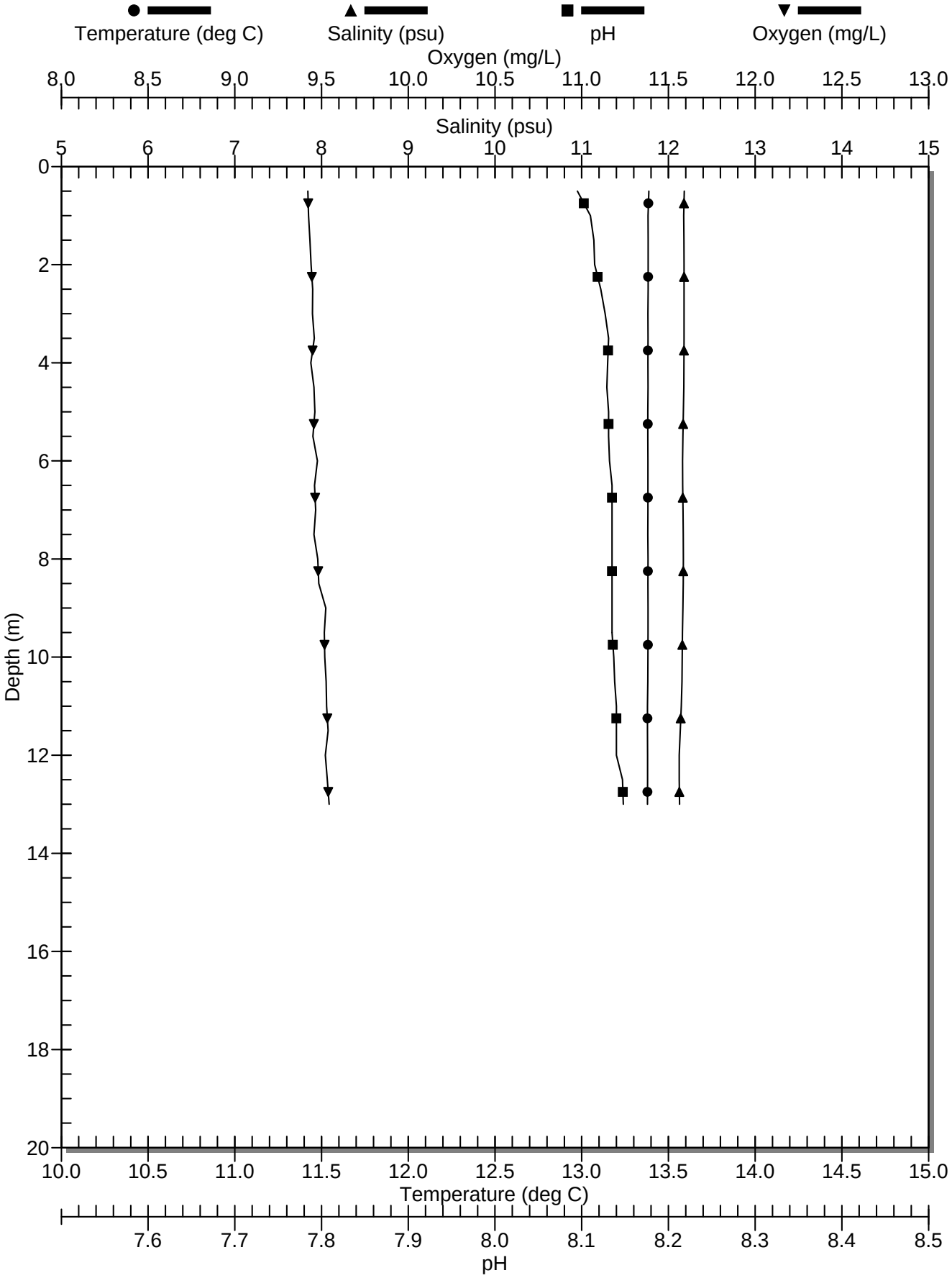

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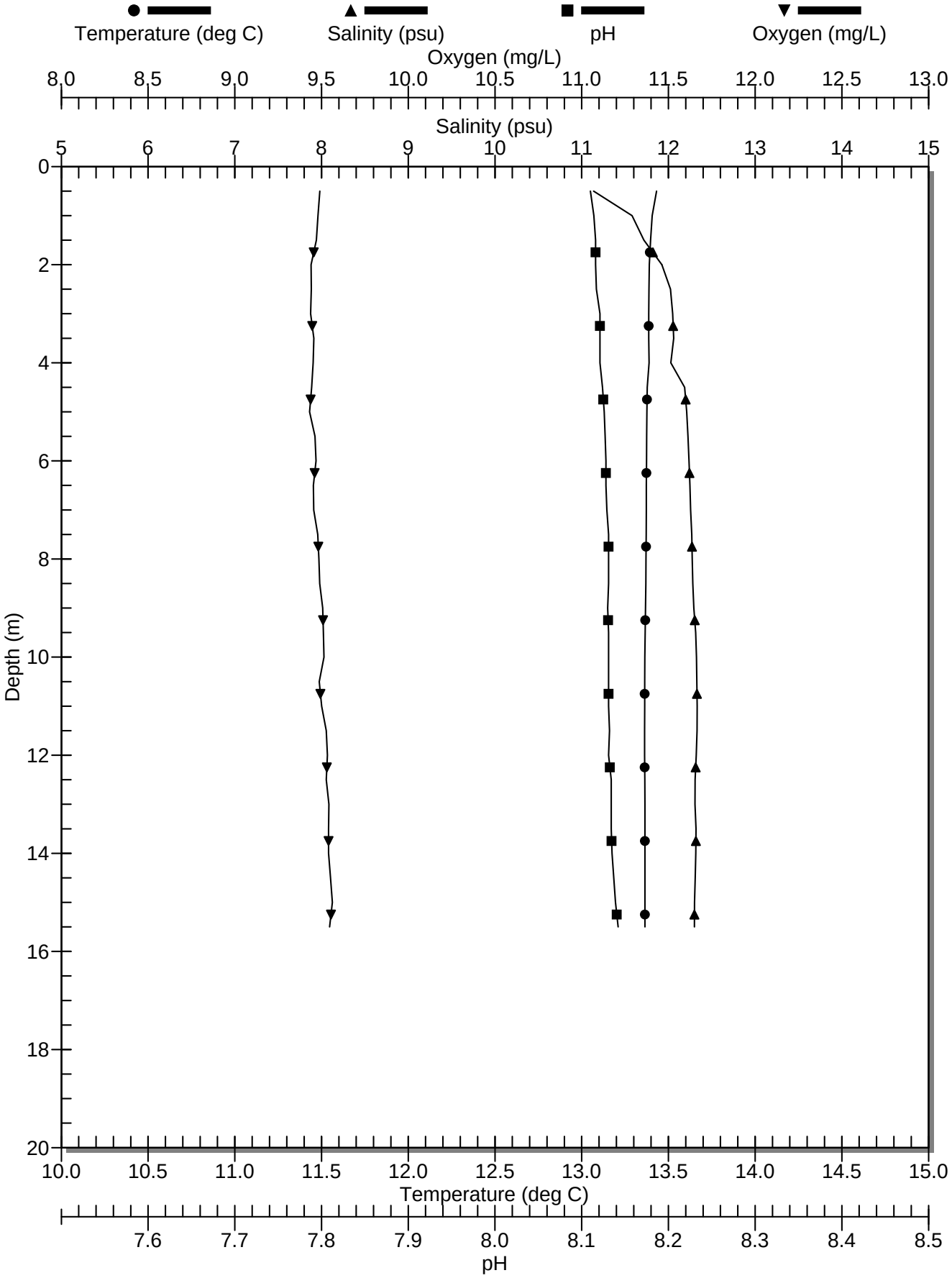

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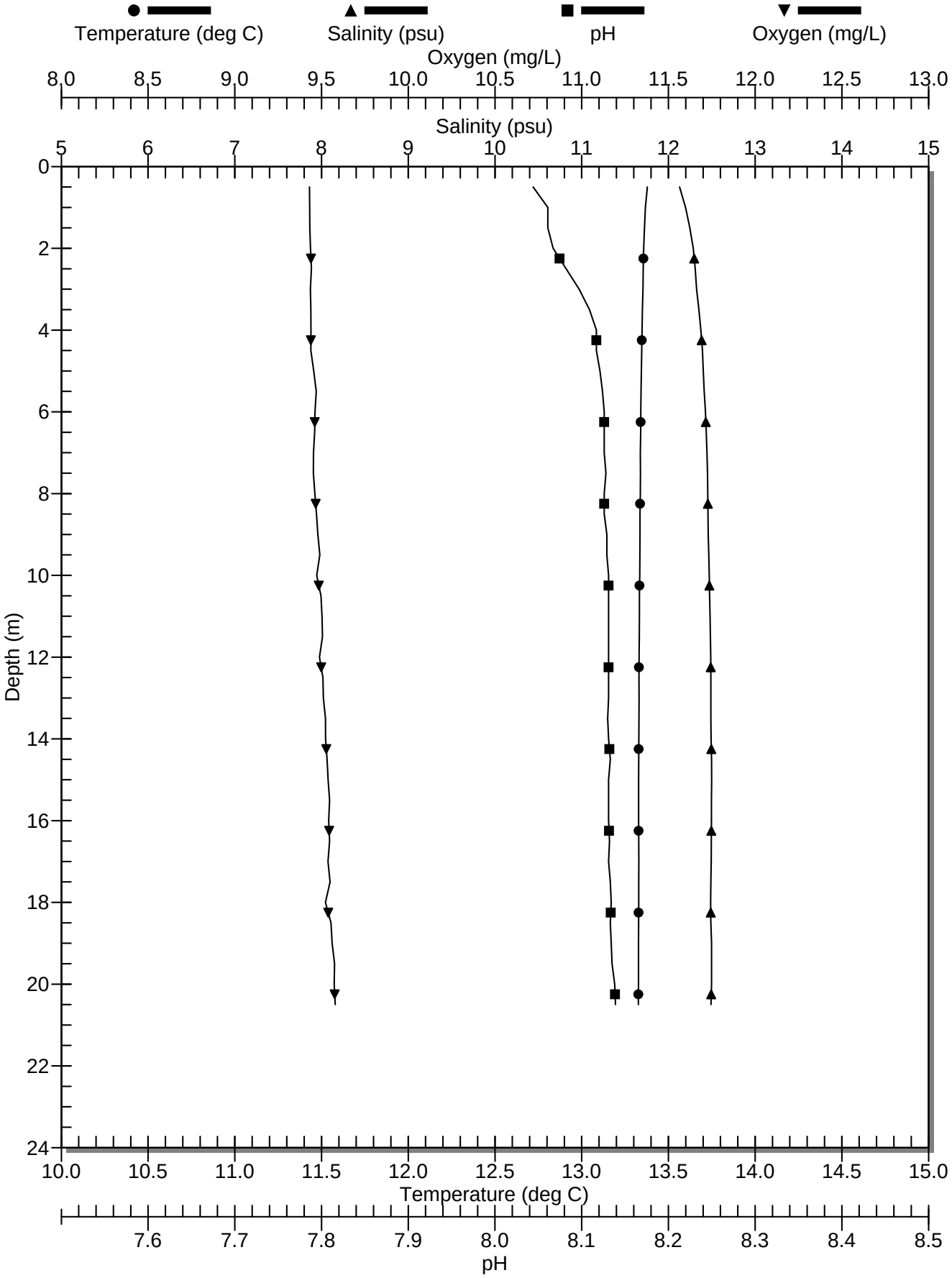

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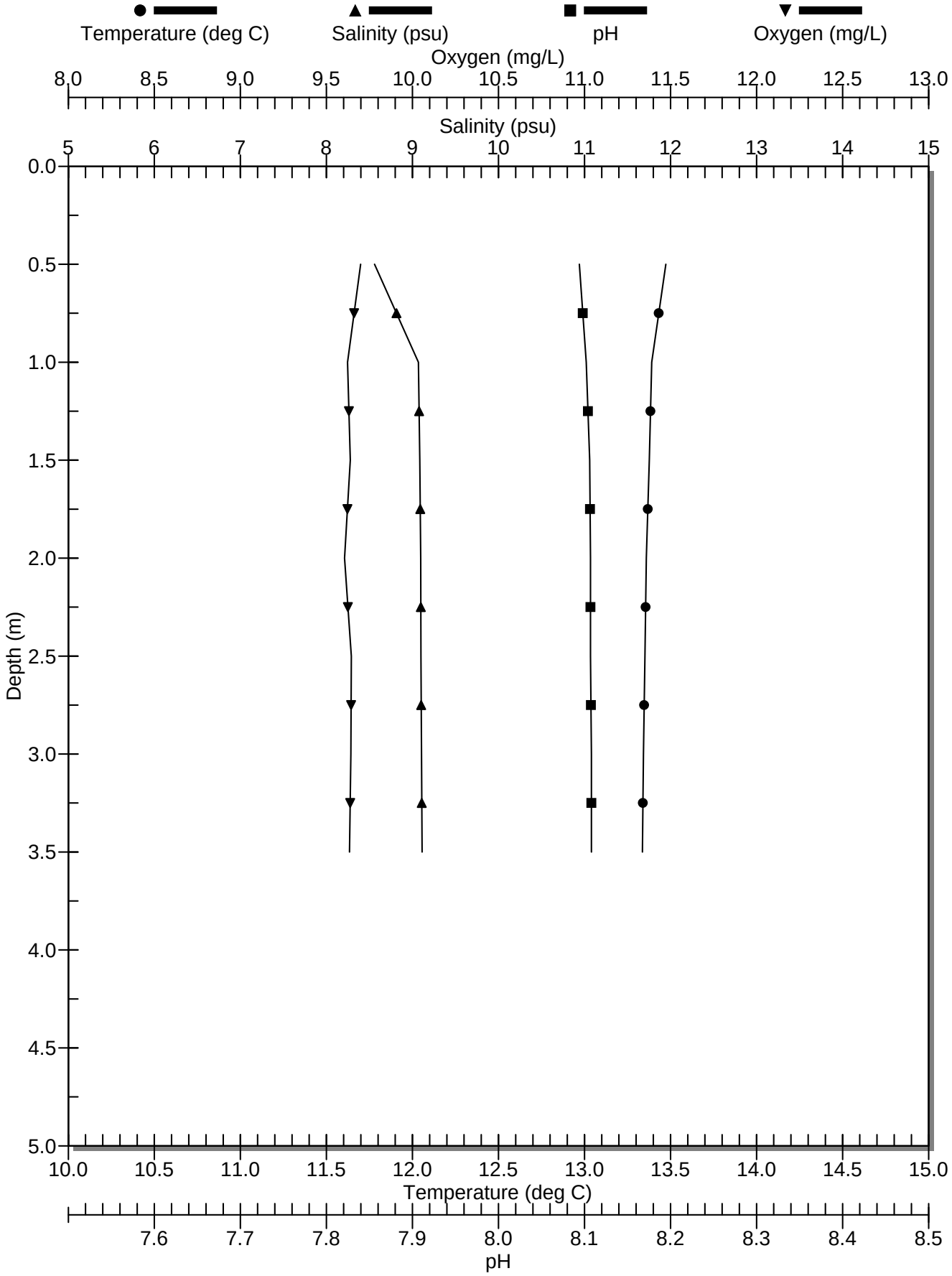

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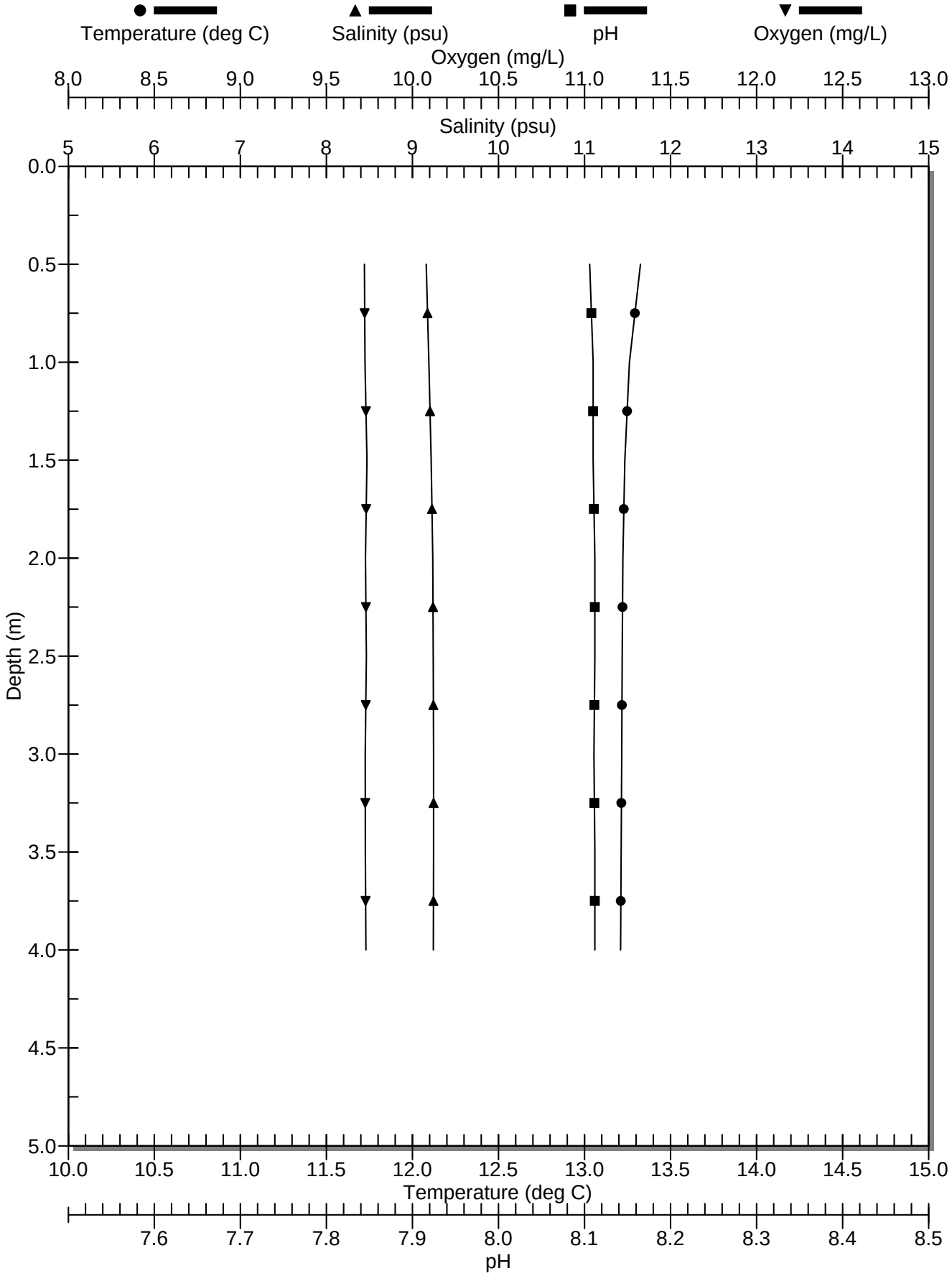

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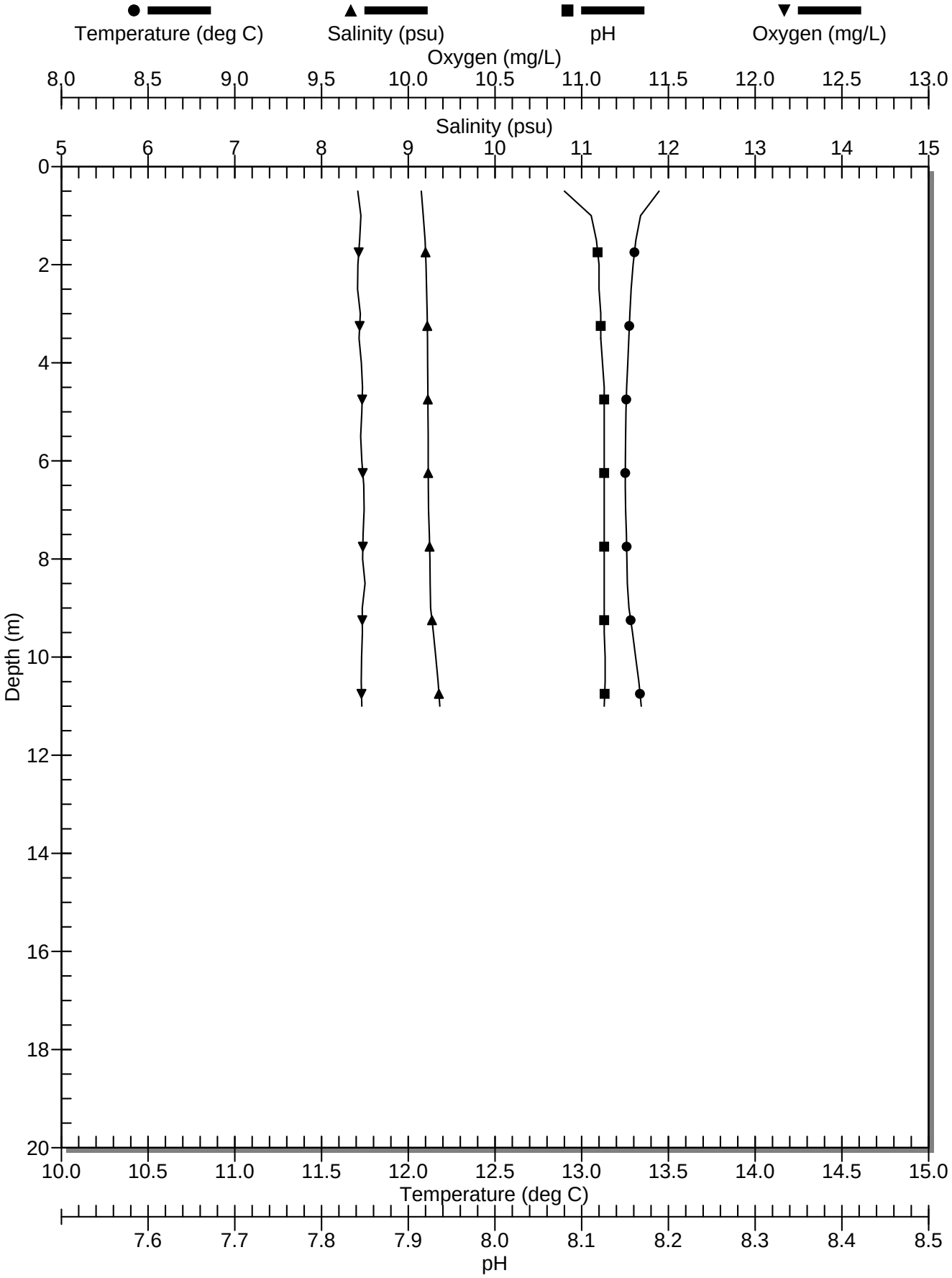

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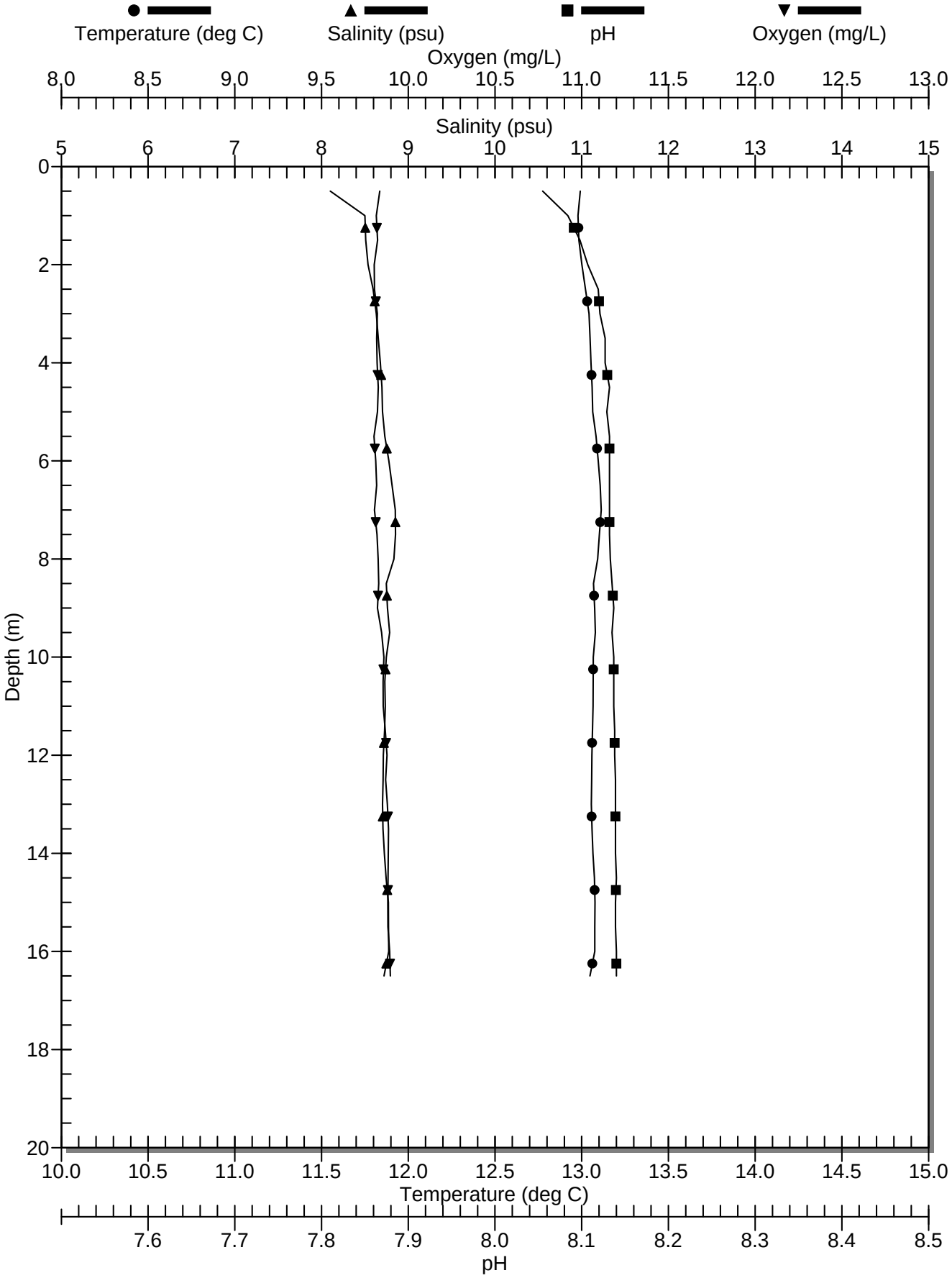

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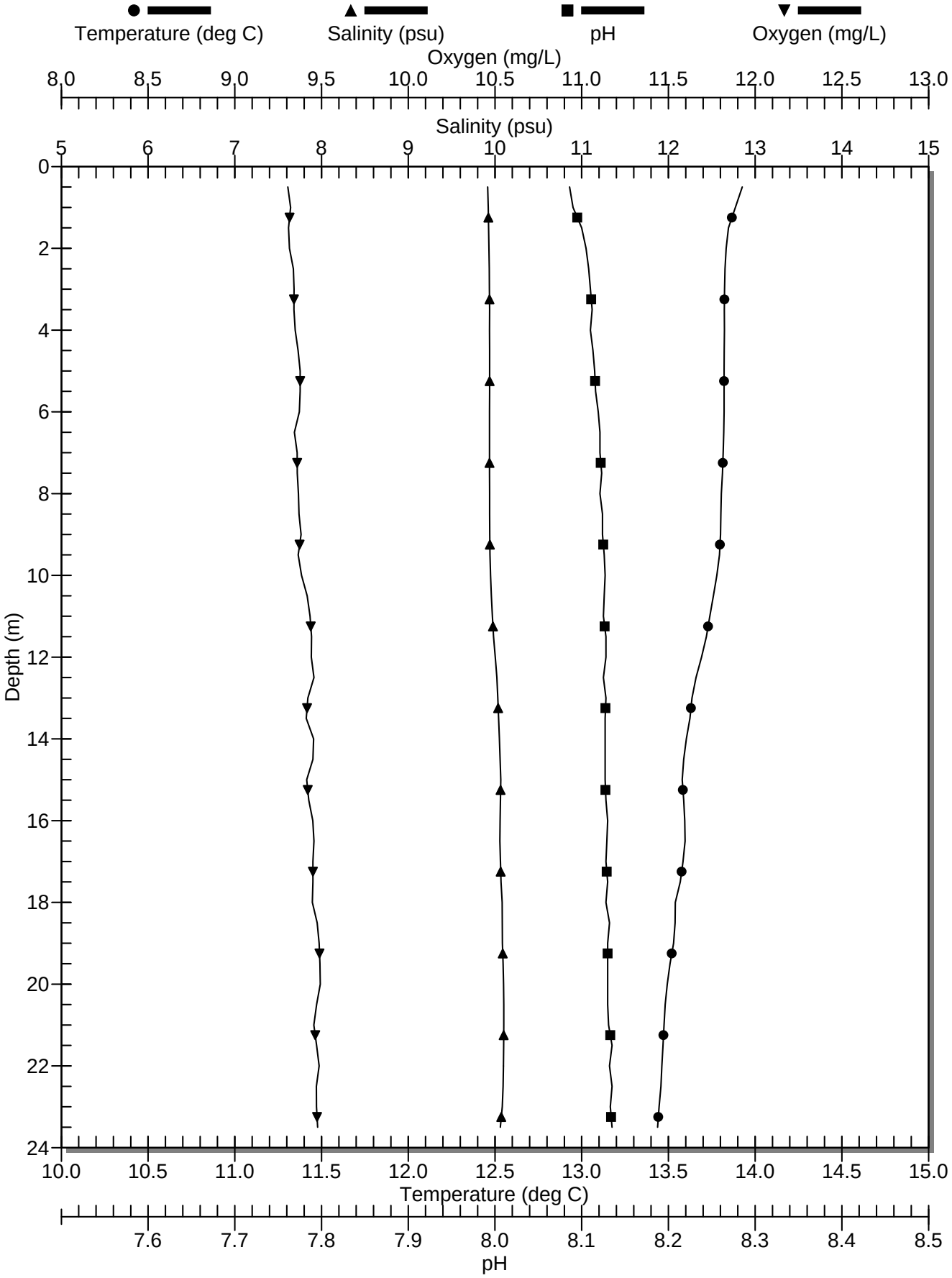

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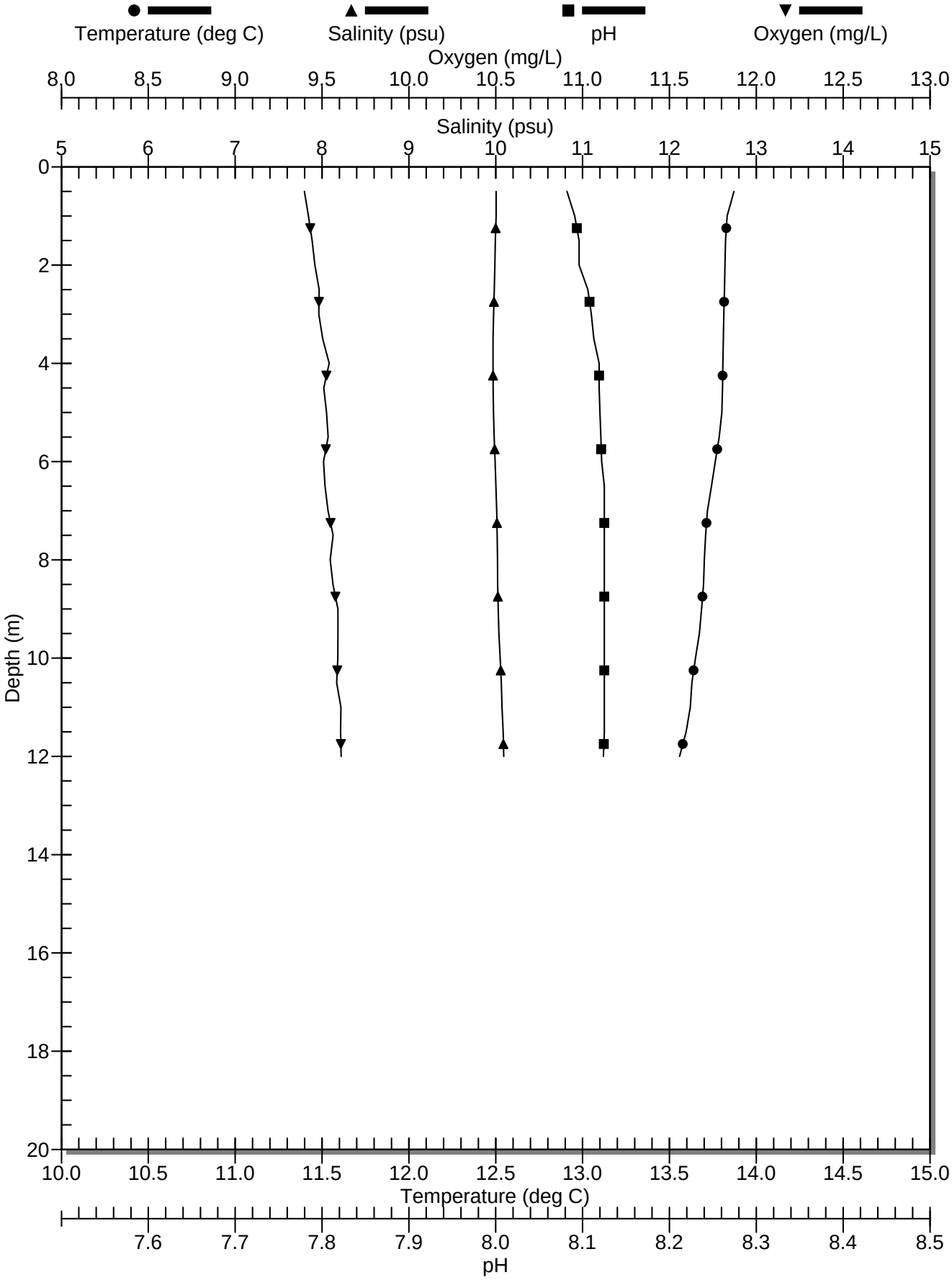

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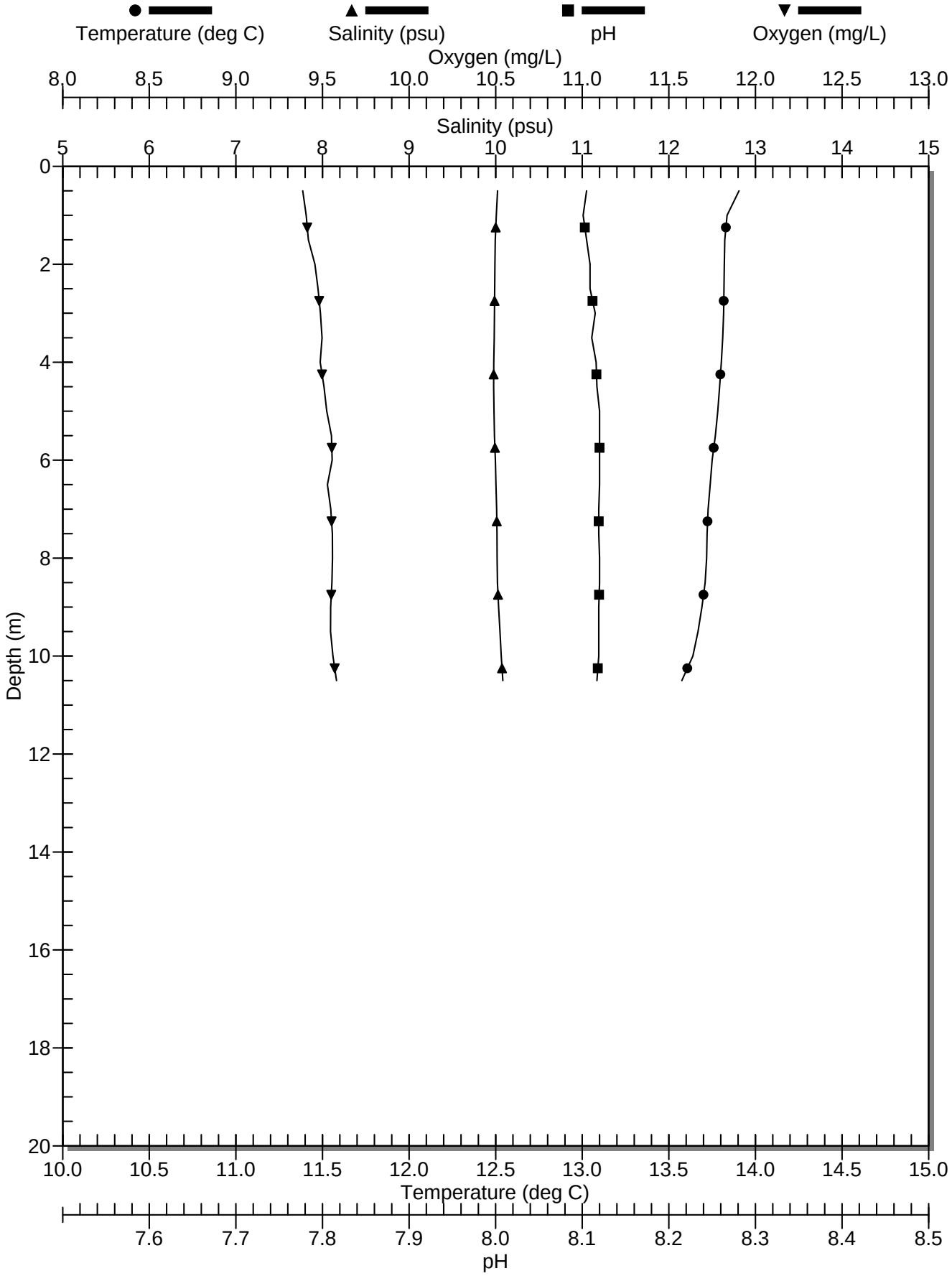

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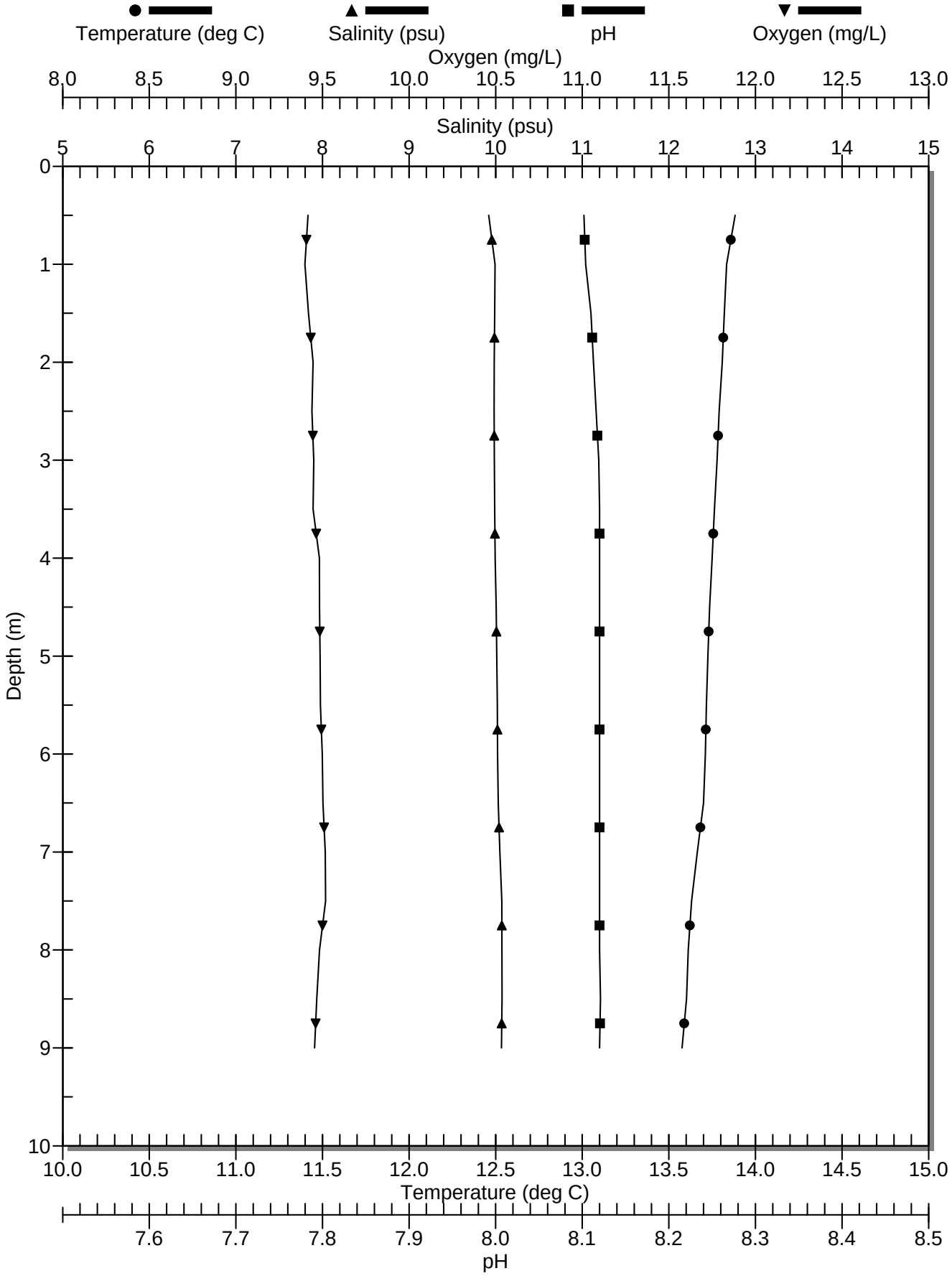
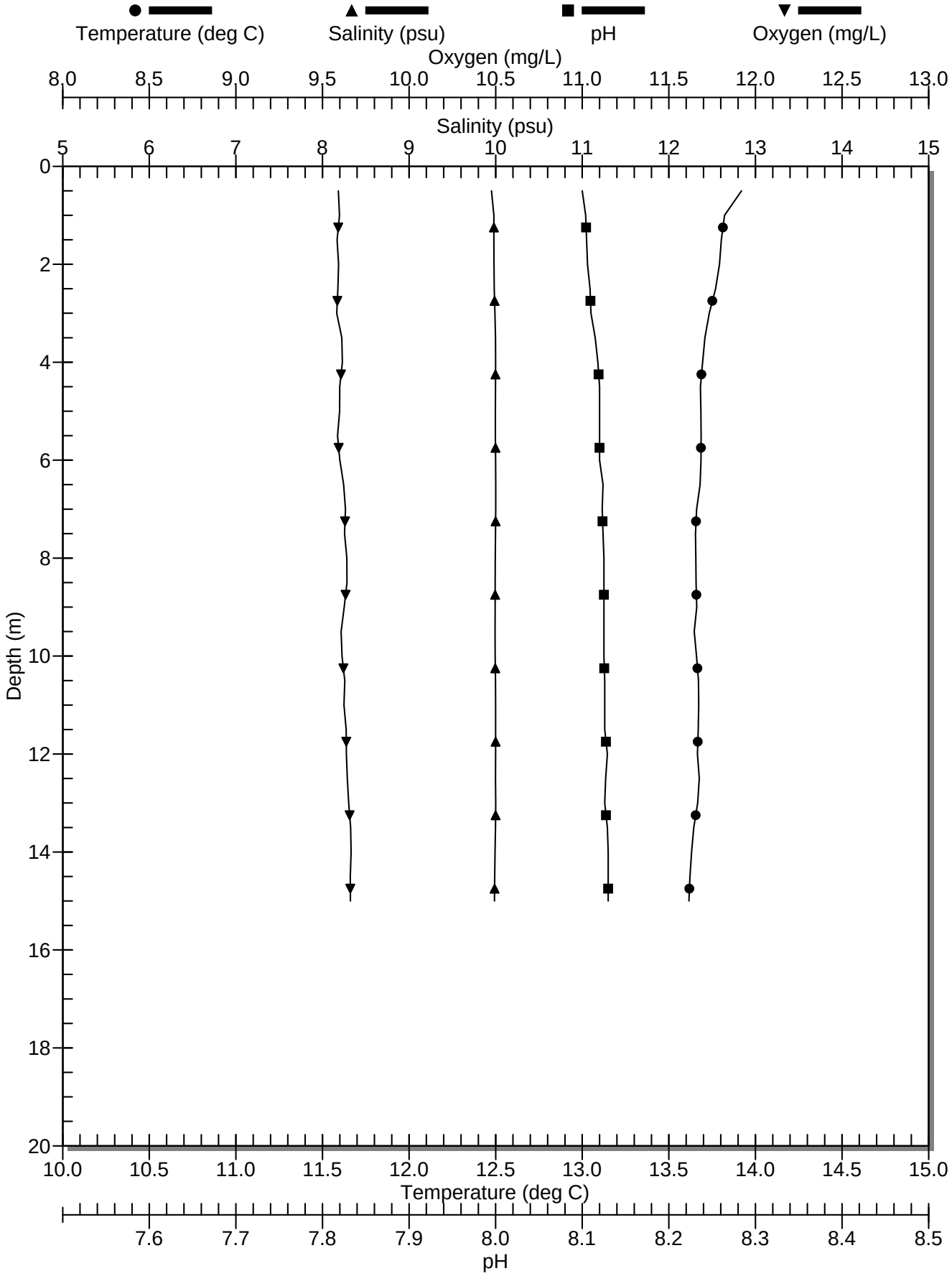


ASPLUND WPCF - Hydrographic Data - July 2010, uC2-3.cnv



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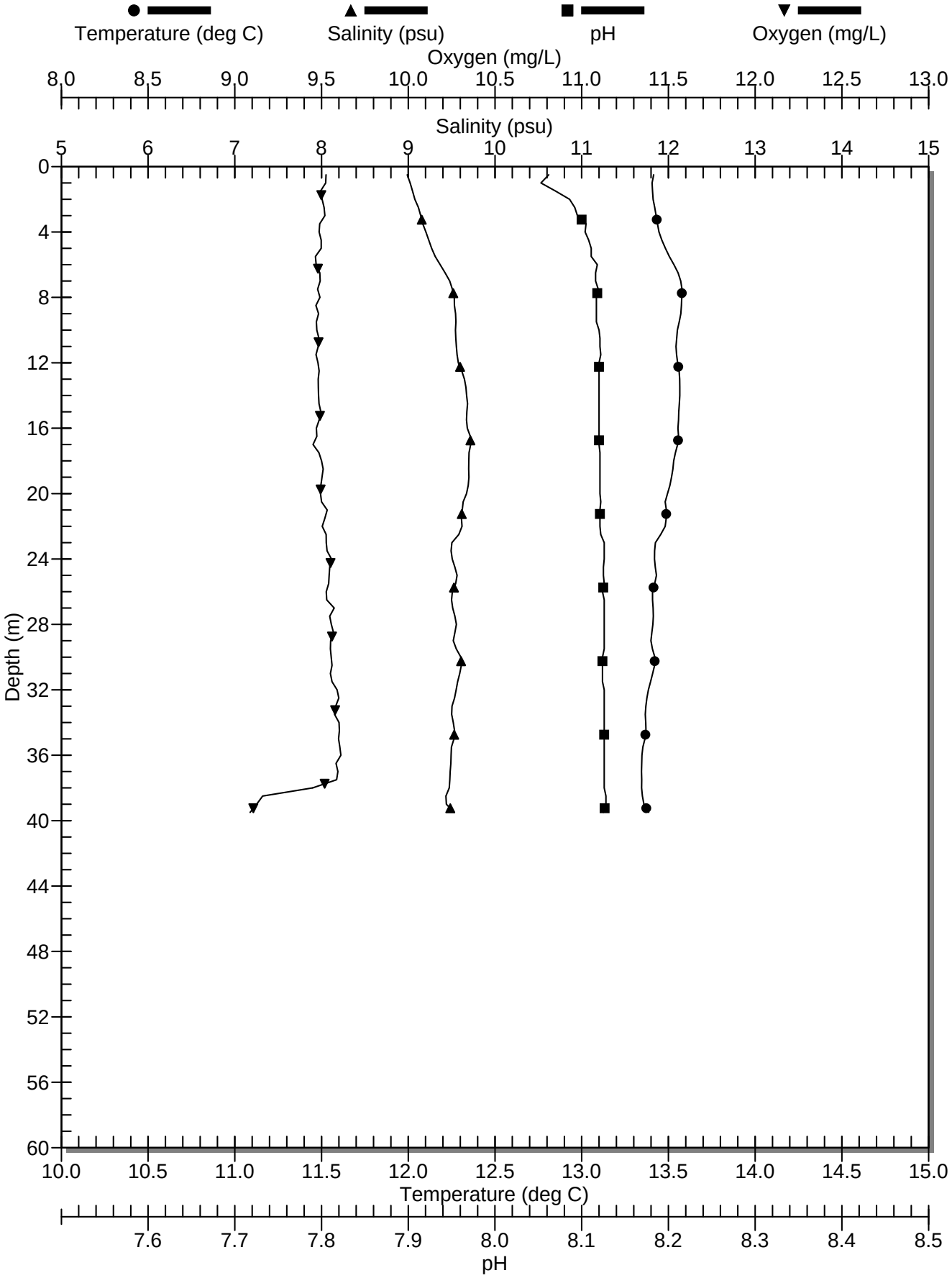

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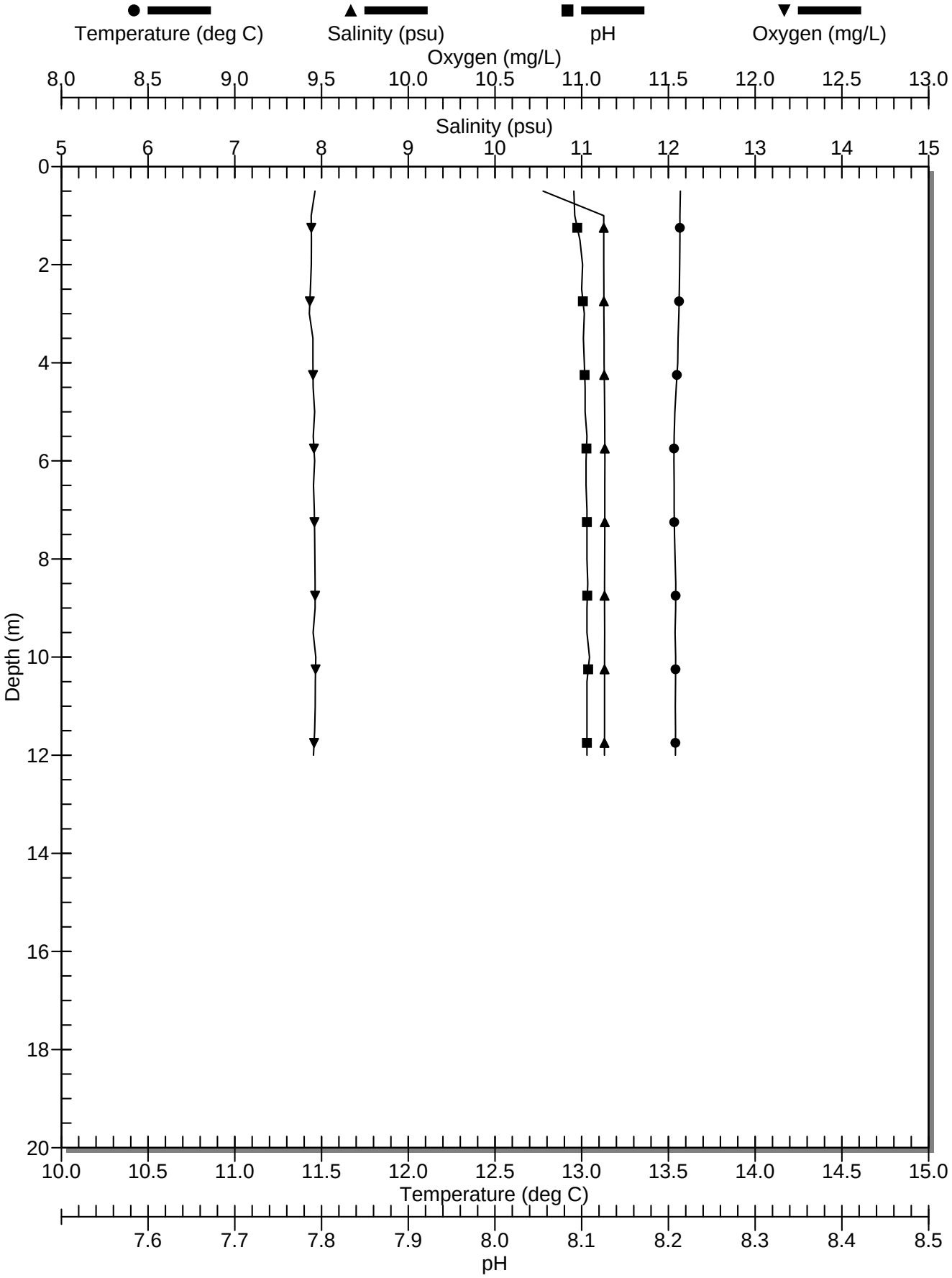

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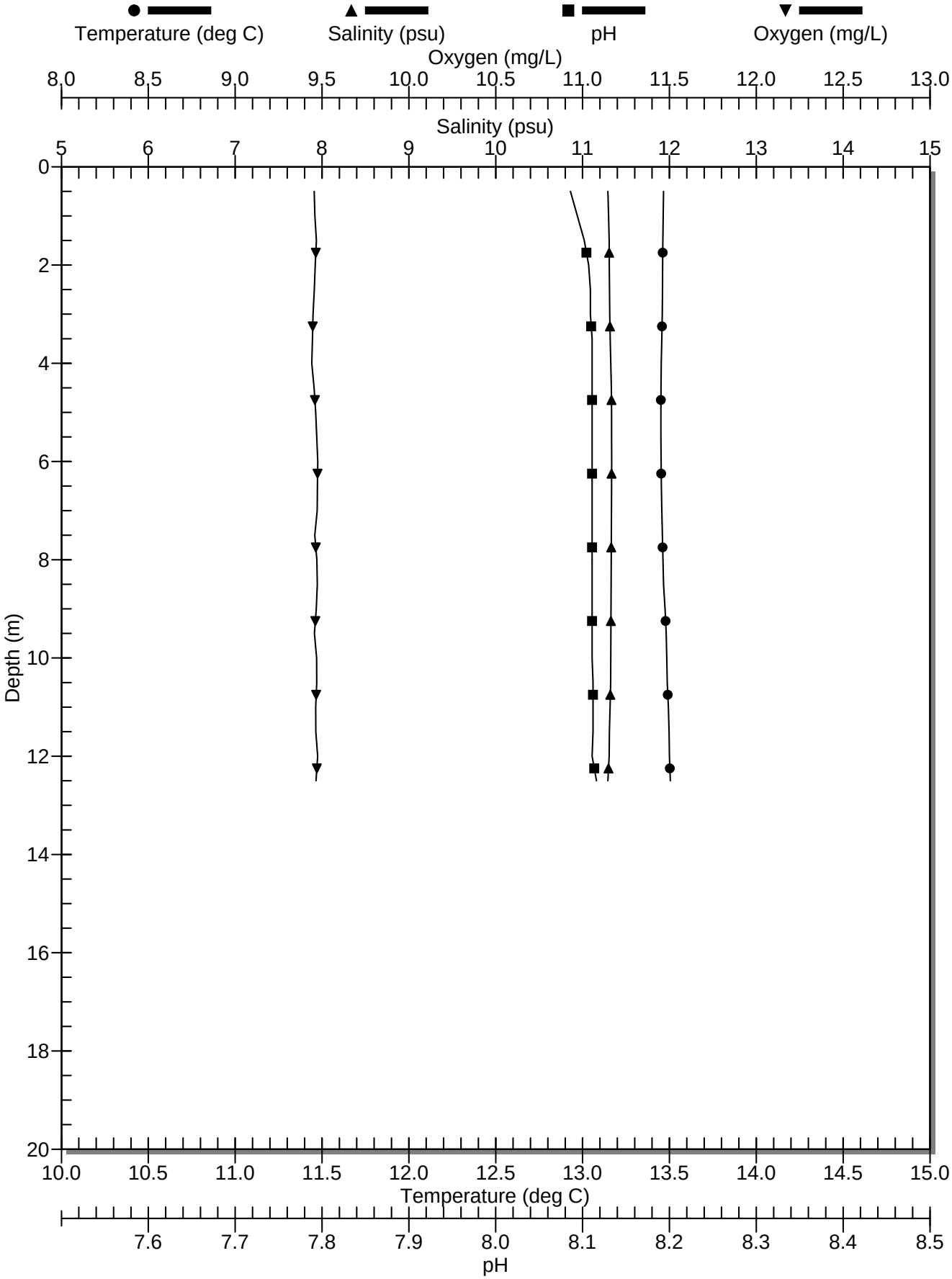

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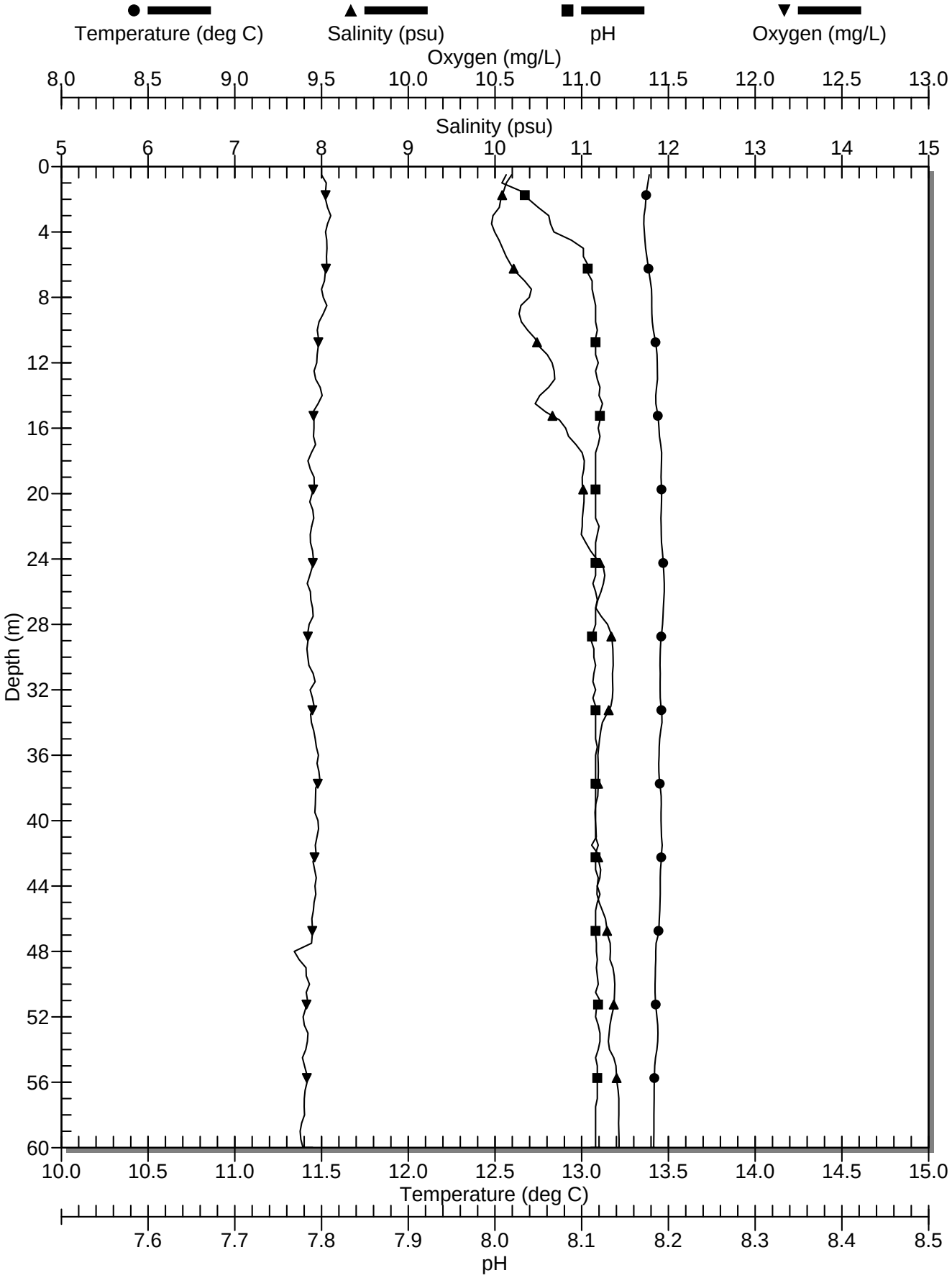

APPENDIX C

Receiving Water Quality Monitoring

C8 Field Data Sheets

Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 1 of 36
STATION: E1-1	TIME: 0915	
TIDE STAGE: Ebb	DEPTH: 12.0 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.347	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.275		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: over outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	1	1	1		1						
MID					2						
BOTTOM					3						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: #1 (MAS)	CSTD ON TIME: 0916

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Overcast, drizzle
Light S. West wind out of Turnagain Arm

Reviewed by: [illegible]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 2 of 86
STATION: E1-2	TIME: 0925	
TIDE STAGE: Ebb	DEPTH: 17.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.305	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.001		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At ZID Boundary

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	2	2	2		4						
MID					5						
BOTTOM					6						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 2	CSTD ON TIME: 0925

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 3 of 36
STATION: E1-3	TIME: 0936	
TIDE STAGE: Ebb	DEPTH: 18.6 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.171	DGPS? Circle Y or N: Y	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.787		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.4 Km west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	3	3	3		7						
MID					8						
BOTTOM					9						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 3	CSTD ON TIME: 0937

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: 3-6" waves, SW winds light <5knots

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 4 of 36
STATION: E1-4	TIME: 0952	
TIDE STAGE: Ebb	DEPTH: 16.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.853	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 03.922		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION:

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	4	4	4		10						
MID					11						
BOTTOM					12						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 4	CSTD ON TIME: 0953

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks/ branches	river discharge	8-10 pieces
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Sane, overcast drizzle rain stopped

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 5 of 36
STATION: E2-1	TIME: 1113	
TIDE STAGE: Ebb	DEPTH: 9.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.337	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.295		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	5	5	5		13						
MID					14						
BOTTOM					15						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 5	CSTD ON TIME: 1113

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	some sticks/logs in area –		river
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast, light breeze

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 6 of 36
STATION: E2-2	TIME: 1116	
TIDE STAGE: Ebb	DEPTH: 14.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.302	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.005		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At Zid boundary west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	6	6	6		16						
MID					17						
BOTTOM					18						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 6	CSTD ON TIME: 1117

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks / branches	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL	↓		
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 7 of 36
STATION: E2-3	TIME: 1124	
TIDE STAGE: Ebb	DEPTH: 15.0 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.131	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 03.101		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~1.5 km west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	7	7	7		19						
MID					20						
BOTTOM					21						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 7	CSTD ON TIME: 1125

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast, calm

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 8 of 36
STATION: E2-4	TIME: 1138	
TIDE STAGE: Ebb	DEPTH: 11.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.617	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 04.272		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~ 3.0 km west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	8	8	8		22						
MID					23						
BOTTOM					24						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 8	CSTD ON TIME: 1138

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS:

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 9 of 36
STATION: Ebb E3-1	TIME: 1317	
TIDE STAGE: Ebb	DEPTH: 6.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.340	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.277		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION:

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	9	9	9		25						
MID					26						
BOTTOM					27						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 9	CSTD ON TIME: 1318

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION	2 people walking dog on beach		
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 10 of 36
STATION: E3-2	TIME: 1326	
TIDE STAGE: Ebb	DEPTH: 7.9 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.235	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.982		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At ZID boundary WSW of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	10	10	10		28						
MID					29						
BOTTOM					30						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 10	CSTD ON TIME:

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 11 of 36
STATION: E3-3	TIME: 1343	
TIDE STAGE: Ebb	DEPTH: 9.1 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.020	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.709		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.4 km WSW of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	11	11	11		31						
MID					32						
BOTTOM					33						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 11	CSTD ON TIME: 1343

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast, calm, no wind

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 12 of 36
STATION: E3-4	TIME: 1402	
TIDE STAGE: Ebb	DEPTH: 9.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.676	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 03.509		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 2.3 km WSW of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	12	12	12		34						
MID					35						
BOTTOM					36						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 12	CSTD ON TIME: 1403

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 13 of 36
STATION: F1-1	TIME: 1600	
TIDE STAGE: Flood - Low Slack	DEPTH: 2.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.348	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.276	Y	COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At outfall, very shallow sampled from Zodiac for chemistry, Low slack

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	13	13	13		37	01	01	01	01	01	~~01~~
MID					38						
BOTTOM					39						

QC SAMPLES COLLECTED: Fecal Dup - 065

CSTD Seabird: 376	CAST NO.: 13	CSTD ON TIME: 1610

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR	chlorine/effluent		
RECREATION	4-5 people on beach		
WILDLIFE	~~no~~ seagulls @ boil ~(12)		

WEATHER INFORMATION/COMMENTS: starting to rain, light breeze

Reviewed by: A Ly

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 14 of 36
STATION: F1-2	TIME: 1640	
TIDE STAGE: Flood	DEPTH: 3.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.425	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.555	Y	COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At ZID boundary, Eq diffuser

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	14	14	14		40	02	02	02	02	02	
MID					41						
BOTTOM					42						

QC SAMPLES COLLECTED: Fecal Dup - 066

CSTD Seabird: 376	CAST NO.: 14	CSTD ON TIME: 1639

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR	↓		
RECREATION	2 people on beach		
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Some overcast/drizzle light breeze, calm water

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 15 of 36
STATION: F1-3	TIME: 1650	
TIDE STAGE: Flood	DEPTH: 3.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.340	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): ~~150°~~ 149° 59.877		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.3 km east of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	15	15	15		43	04	03	03	03	03	
MID					44						
BOTTOM					45						

QC SAMPLES COLLECTED: Fecal Dup Spectra — #067

CSTD Seabird: 376	CAST NO.: 15	CSTD ON TIME: 1651

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 16 of 36
STATION: F1-4	TIME: 1714	
TIDE STAGE: Flood	DEPTH: 3.3 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.187	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.254		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.9 Km east of outfall
~150 m from shoreline

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	16	16	16	X	46						
MID	X	X	X	X	47	X	X	X	X	X	
BOTTOM	X	X	X	X	48	X	X	X	X	X	

QC SAMPLES COLLECTED: Fecal Dup #068

CSTD Seabird: 376	CAST NO.: 16	CSTD ON TIME: 1715

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL			
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION	✓		
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 17 of 36
STATION: F2-1	TIME: 1748	
TIDE STAGE: Flood	DEPTH: 6.5 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.344	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.279		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	17	17	17		49						
MID					50						
BOTTOM					51						

QC SAMPLES COLLECTED: Fecal Dup #069

CSTD Seabird: 376	CAST NO.: 17	CSTD ON TIME: 1749

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast, calm

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 18 of 36
STATION: F2-2	TIME: 1755	
TIDE STAGE: Flood	DEPTH: 9.2 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.537	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.677		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ENE of outfall at ZID boundary

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	18	18	18		52						
MID					53						
BOTTOM					54						

QC SAMPLES COLLECTED: Fecal Dup #70

CSTD Seabird: 376	CAST NO.: 18	CSTD ON TIME: 1755

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 19 of 36
STATION: F2-3	TIME: 1802	
TIDE STAGE: Flood	DEPTH: 14.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.656	DGPS? Circle Y or N: Y	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.911		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.3 km ENE of diffuser

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	19	19	19		55						01
MID					56						02
BOTTOM					57						03

QC SAMPLES COLLECTED: Fecal Dup #071

Salinities, surface, mid, & bottom

CSTD Seabird: 376	CAST NO.: 19	CSTD ON TIME: 1802

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast, light breeze

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KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 20 of 36
STATION: F2-4	TIME: 1814	
TIDE STAGE: Flood	DEPTH: 9.4 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.534	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.802		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~ 2.2 Km east of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	20	20	20		58						
MID					59						
BOTTOM					60						

QC SAMPLES COLLECTED: Fecal Dupe #072

CSTD Seabird: 376	CAST NO.: 20	CSTD ON TIME: 1818

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Sabre

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 21 of 36
STATION: F3-1	TIME: 1930	
TIDE STAGE: Flood	DEPTH: 10.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.343	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.284		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At Outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	21	21	21		61						
MID					62						
BOTTOM					63						

QC SAMPLES COLLECTED: Fecal Dup #13

CSTD Seabird: 376	CAST NO.: 21	CSTD ON TIME: 1930

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION	4 people on	beach	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: overcast, calm

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 22 of 36
STATION: F3-2	TIME: 1935	
TIDE STAGE: Flood	DEPTH: 12.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.563	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.709	Y	COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At ZID boundary NE of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	22	22	22		64						
MID					65						
BOTTOM					66						

QC SAMPLES COLLECTED: Fecal Dupe #074

CSTD Seabird: 376	CAST NO.: 22	CSTD ON TIME: 1936

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 23 of 36
STATION: F3-3	TIME: 1940	
TIDE STAGE: Flood	DEPTH: 19.9 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.741	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.016		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 1.3 km NE of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	23	23	23		67						
MID					68						
BOTTOM					69						

QC SAMPLES COLLECTED: Fecal Dup. #075

CSTD Seabird: 376	CAST NO.: 23	CSTD ON TIME: 1942

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS:

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 24 of 36
STATION: F3-4	TIME: 1956	
TIDE STAGE: Flood	DEPTH: 19.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.984	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.406		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~ 2.5 Km NE of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	24	24	24	X	70						
MID	X	X	X	X	71	X	X	X	X	X	
BOTTOM	X	X	X	X	72	X	X	X	X	X	

QC SAMPLES COLLECTED: Fecal Dup. #74

CSTD Seabird: 376	CAST NO.: 24	CSTD ON TIME: 1956

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Sun, overcast calm.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 25 of 36
STATION: Control C1-1	TIME: 1728	
TIDE STAGE: Flood	DEPTH: 11.5 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.004	DGPS? Circle Y or N: Y	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.148		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: m At Control Drop Location

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	25	25	25		73	05	04	04	04	04	
MID					74						
BOTTOM					75						

QC SAMPLES COLLECTED: ms/sd - (6) VOA's QC

CSTD Seabird: 376	CAST NO.: 25	CSTD ON TIME: 1728

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS:

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 26 of 36
STATION: C1-2	TIME: 1738	
TIDE STAGE: Flood	DEPTH: 3.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.361	DGPS? Circle Y or N: Y	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.828		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~1.4 Km from Control Drop

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	26	26	26		76	06	05	05	05	05	
MID					77						
BOTTOM					78						

QC SAMPLES COLLECTED: VOA Blind Field Blank C-Station # MOA1PVOA 069

CSTD Seabird: 376	CAST NO.: 26	CSTD ON TIME: 1739

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: partly cloudy/sunny calm water

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 27 of 36
STATION: C1-3	TIME: 1755	
TIDE STAGE: Flood	DEPTH: 7.2 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.948	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 56.276		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~ 3.0 km from control drop

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	27	27	27		79	07	06	06	06	06	
MID					80						
BOTTOM					81						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 27	CSTD ON TIME: 1756

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: sunny, calm

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 28 of 36
STATION: C1-4	TIME: 1816	
TIDE STAGE: Flood	DEPTH: 22.5 Feet (Circle unit) Meters	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.967	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 54.730		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 5.3 km from drop ~100m offshore of Port MacKenzie Dock

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	28	28	28		82						
MID					83						
BOTTOM					84						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 28	CSTD ON TIME: 1816

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	~~none~~ sticks/branches		
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 29 of 36
STATION: C2-1	TIME: 1850	
TIDE STAGE: Flood	DEPTH: 11.1 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.006	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.153		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At Control Drop

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	29	29	29		85						
MID					86						
BOTTOM					87						

QC SAMPLES COLLECTED: None

CSTD Seabird: 376	CAST NO.: 29	CSTD ON TIME:

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: SW wind ~5 knots
3-6" chop, sunny some clouds

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 30 of 36
STATION: C2-2	TIME: 1900	
TIDE STAGE: Flood	DEPTH: 17.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.053	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.009		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: NE of Pt Mac Control Drop

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	30, 31 32	30, 31 32	30, 31 32		88						
MID					89						
BOTTOM					90						

QC SAMPLES COLLECTED: Field Triplicates

Triplicate CTD cast - didn't turn off in between!

CSTD Seabird: 376	CAST NO.: 30	CSTD ON TIME: 1901

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 31 of 36
STATION: C2-3	TIME: 1915	
TIDE STAGE: Flood	DEPTH: 28.5 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.721	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149 55.246		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 3.8 km from drop site

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	33	33	33		91, 92, 93						
MID					94						
BOTTOM					95						

QC SAMPLES COLLECTED: Field Triplicate on turbidity

CSTD Seabird: 376	CAST NO.: 31	CSTD ON TIME: 1916

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: sunny, SW wind ~5 knots light chop

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 32 of 36
STATION: C2-4	TIME: 1928	
TIDE STAGE: Flood	DEPTH: 38.2 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.278	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 55.148		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 4.3 Km from drop site

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	34	34	34		96						
MID					97						
BOTTOM					98						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 32	CSTD ON TIME: 1929

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL			
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS:

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 33 of 36
STATION: C3-1	TIME: 2034	
TIDE STAGE: Flood	DEPTH: 10.2 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.004	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.152		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: At control drop

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	35	35 36 33	35 36,37		99/100/101						
MID					102						
BOTTOM					103						

QC SAMPLES COLLECTED: [redacted] Triplicates - Lab. Labels on same bottle

CSTD Seabird: 376	CAST NO.: 33	CSTD ON TIME: 2035

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: partly overcast / sunny winds from SE at.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 34 of 36
STATION: C3-2	TIME: 2048	
TIDE STAGE: Flood	DEPTH: 13.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.308	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.231		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: ~ 1.8 km from Control

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	38	38	38		104						
MID					105						
BOTTOM					106						

QC SAMPLES COLLECTED:

CSTD Seabird: 376	CAST NO.: 34	CSTD ON TIME: 2048

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 35 of 36
STATION: C3-3	TIME: 2056	
TIDE STAGE: Flood	DEPTH: 21.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.308	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.231		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: 3.1 km from drop site

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	39	39	39		107						
MID					108						
BOTTOM					109						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 35	CSTD ON TIME: 2057

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: sunny / some clouds
light wind / S.E.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 36 of 36
STATION: C3-4	TIME: 2110	
TIDE STAGE: Flood	DEPTH: 40.7 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.349	DGPS? Circle Y or N: Y	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 54.050		COORDINATE SYSTEM: NAD83

STATION LOCATION/DESCRIPTION: Mid-Channel @ Cairn Pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	40	40	40		110						
MID					111						
BOTTOM					112						

QC SAMPLES COLLECTED: none

CSTD Seabird: 376	CAST NO.: 36	CSTD ON TIME: 2110

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	logs/branches	river discharge	
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 1 of 9
RELEASE POINT: Outfall-E1	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
DIFFERENTIAL STATION: **WAAS**	COORDINATE SYSTEM: ***NAD83***

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
0915		61° 12.347	150° 01.275	*	E1-1
0918		12.351	01.498		200 m.
0925		12.305	02.001		E1-2
0931		12.234	02.470		
0936		12.171	02.787		E1-3
0946		11.987	03.490		
0952		11.853	03.922		E1-4
1004		11.531	04.887		3.6 km
1011		11.336	05.533		4.2 km
1022		11.062	06.699		5.4 km
1031		10.890	07.721		6.4 km
1037		10.802	08.542		7.2 km
1045		10.737	09.426		picked 7.9 km

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 2 of 4
RELEASE POINT: outfall - E2	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1113		61° 12.337	150° 01.295	*	E2-1
1116		12.302	02.005		E2-2
1124		12.131	03.101		E2-3
1135		11.750	04.048		
1138		11.617	04.272		E2-4
1147		11.350	04.772		3.6 km
1156		11.164	05.236		4.2 km
1201		11.071	05.498		
1206		10.992	05.779		4.8 km
1211		10.911	06.116		5.1 km
1222		10.797	06.938		
1226		10.760	07.237		6.1 km
1233		10710	07.838		picked drogue

Reviewed By: Amy Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 3 of 9
RELEASE POINT: Outfall - E3	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1317		61° 12.340	150° 01.277	*	E3-1
1321		12.312	01.664	*	
1326		12.235	01.982		E3-2
1334		12.129	02.381		1.1 km WSW
1343		12.020	02.709		E3-3
1351		11.886	03.030		
1356		11.789	03.256		2.1 km
1402		11.676	03.509		E3-4
1413		11.405	04.132		
1424		11.128	04.939		
1438		10.826	06.129		
1448		10.724	06.844		
1503		10.648	08.272		picked drogue 7.0 km WSW.

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 4 of 9
RELEASE POINT: Outfall F1-1	NUMBER RELEASED:	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1600		61° 12.348	150° 01.276	*	F1-1 deployed from Zodiac
1631		12.429	00.846		420m ENE
1640		12.425	00.555		F1-2
1650		12.340	149° 59.877		F1-3
1705		12.228	59.415		
1714		12.187	59.254		F1-4
1724		12.157	59.267		
1730		12.140	59.308		
1739		12.124	59.416		picked drogue

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 5 of 9
RELEASE POINT: Outfall F2	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1748		61°12.344	150° 01.277		F2-1
1755		12.537	00.677		F2-2
1757		12.609	00.341		
1802		12.656	149° 59.911		F2-3
1811		12.604	59.120		
1814		12.534	58.802		F2-4
1834		12.352	58.138		2.8 km from outfall
1848		12.267	57.952		3.0 km " "
1904		12.244	58.012		2.9 km
1915		12.202	58.178		2.8 km picked drogue
					little eddy loop at end
					towards shore.

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/13/10	Page 6 of 9
RELEASE POINT: outfall – F3	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1930		61° 12.343	150° 01.284	*	F3-1
1935		12.563	150° 00.709		F3-2
1937		12.662	00.386		1.0 km NE
1940		12.741	00.016		F3-3
1956		12.984	149 58.406		F3-4
2004		13.016	57.743		3.4 km from outfall
2008		13.048	57.451		
2015		13.134	56.882		
2027		13.329	55.789		5.3 km from outfall mid channel
2038		13.493	55.150		
2042		13.523	54.937		6.1 km
2055		13.690	54.804		
2058		13.786	54.625		
2112		14.009	53.959		
2118		14.073	53.772		7.4 km from outfall picked drogue

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 2 of 4
RELEASE POINT: Control C1	NUMBER RELEASED:	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1728		61° 14.004	149° 59.148	*	C1-1
1735		14.147	58.252		
1738		14.361	57.828		C1-2
1749		14.756	56.916		
1755		14.948	56.276		C1-3
1802		15.234	55.555		
1816		15.967	54.730		C1-4
1820		16.200	54.688		
1828		16.694	54.413		6.6 Km from drop
					picked drogue

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 8 of 7
RELEASE POINT: Control C2	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1850		61° 14.006	149° 59.153		C2-1
1853		14.005	58.878		
1900		14.053	58.009		C2-2
1903		14.146	57.408		
1909		14.440	56.295		
1915		14.721	55.246		C2-3
1920		15.114	54.784		4.4 km
1923		15.299	54.861		
1928		15.278	55.148		C2-4
1944		15.644	54.641		5.1 km
1953		16.022	54.868		drogue ~5m from Dock face
2005		16.135	54.886		drogue went under piling
					drogue hung on piling!

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

C:\Projects\MOA\MOA10\Field Logs\DROGUELOG2010.wpd

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Asplund WPCF NPDES 2010*	DATE: 7/14/10	Page 1 of 1
RELEASE POINT: Control-C3	NUMBER RELEASED:	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: WAAS	COORDINATE SYSTEM: *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
2034		61° 14.004	149° 59.152	*	C3-1
2048		14.308	57.231		C3-2
2052		14.450	56.710		
2056		14.599	56.008		C3-3
2059		14.725	55.564		3.5 km from Control
2105		15.011	54.740		
2110		15.349	54.050		C3-4
2121		15.897	53.752		
2125		16.101	53.651		
2130		16.382	53.546		picked drogue 6.7 Km from drop

Reviewed By: [signature] Date: 12/1/10

Record Y or * for differential fix in DGPS column, and leave blank if no fix is obtained.
Minus sign (-) indicates end of observation set

C:\Projects\MOA\MOA10\Field Logs\DROGUELOG2010.wpd