MONITORING PROGRAM ANNUAL REPORT

JANUARY - DECEMBER 2009

ANCHORAGE WATER AND WASTEWATER UTILITY

JOHN M. ASPLUND WATER POLLUTION CONTROL FACILITY
AT POINT WORONZOF

APPENDICES

Prepared for:

Prepared by:

KINNETIC LABORATORIES INCORPORATED
1102 West 7th Ave., Anchorage, AK 99501
(907) 276-6178

February 2010

APPENDICES

APPENDIX A Toxic Pollutant and Pesticide Monitoring, June Sampling

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Spectra Laboratories

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

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

SGS North America, Inc.

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

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09VOP001 - 008	INFLUENT	SAMPLE (COMPOSITE)
MOA09VOP009 - 016	EFFLUENT	SAMPLE (COMPOSITE)
MOA09VOP017	C-STATION	FIELD BLANK
MOA09VOP018	TRIP BLANK	TRIP BLANK
MOA09VOP019	SLUDGE	SAMPLE
MOA09DXN001	INFLUENT	SAMPLE
MOA09DXN002	EFFLUENT	SAMPLE
MOA09DXN003	SLUDGE	SAMPLE
MOA09SVL001	INFLUENT	SAMPLE
MOA09SVL002	EFFLUENT	SAMPLE
MOA09SVL003	SLUDGE	SAMPLE
MOA09PES001	INFLUENT-1	SAMPLE
MOA09PES002	INFLUENT-2	SAMPLE
MOA09PES003	EFFLUENT	FIELD/LAB DUPLICATE
MOA09PES004	SLUDGE	SAMPLE
MOA09PST001	INFLUENT-1	SAMPLE
MOA09PST002	INFLUENT-2	SAMPLE
MOA09PST003	EFFLUENT	FIELD/LAB DUPLICATE

JUNE SAMPLING, OIL & GREASE, CYANIDE, AND METALS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09O&G001	INFLUENT	SAMPLE
MOA09O&G002	EFFLUENT	SAMPLE
MOA09TCN009	INFLUENT	SAMPLE
MOA09TCN010	EFFLUENT	SAMPLE
MOA09TCN011	INFLUENT	SAMPLE
MOA09TCN012	EFFLUENT	SAMPLE
MOA09TCN013	INFLUENT	SAMPLE
MOA09TCN014	EFFLUENT	SAMPLE
MOA09MET001	INFLUENT	SAMPLE
MOA09MET002	EFFLUENT	SAMPLE
MOA09MET003	SLUDGE	SAMPLE
MOA09MET004	INFLUENT	SAMPLE
MOA09MET005	EFFLUENT	SAMPLE
MOA09MET006	INFLUENT	SAMPLE
MOA09MET007	EFFLUENT	SAMPLE

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1092874

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/10/2009	11:59
Workorder	1092874	516.01			

Sample ID		**Client Sample ID**

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

1092874017 **PS** **Compsite 1-8**

624 - VOC was analyzed by SGS in Wilmington, NC.

1092874018 **PS** **Compsite 9-16**

624 - VOC was analyzed by SGS in Wilmington, NC.

1092874019 **PS** **MOA9VOP017 C-Station**

624 - VOC was analyzed by SGS in Wilmington, NC.

1092874020 **TB** **MOA9VOP018 TRIP BLANK**

624 - VOC was analyzed by SGS in Wilmington, NC.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1092874	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 10, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1092874

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 4°C	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP001	INF CMP #1	3	6/23	910		1 A,B
MOA09VOP002	INF CMP #2	3		1200		2
MOA09VOP003	INF CMP #3	3		1500		3
MOA09VOP004	INF CMP #4	3		1800		4
MOA09VOP005	INF CMP #5	3		2135		5
MOA09VOP006	INF CMP #6	3	6/24	0100		6
MOA09VOP007	INF CMP #7	3		0300		7
MOA09VOP008	INF CMP #8	3		0600		8
						17 A

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 IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/9 1030	hand	[illegible]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\DRYVOP09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092874

REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 4° C	Type of Container: 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP017	C-Station	3	06/24/09	0912		19 AB
MOA09VOP018	Trip Blank	3	↓	~~0912~~		20 A-C

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\DRYVOP09COC.wpd

V-A

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092874

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP009	EFF CMP #1 ✓	3	6/23/9	0900		9 A,B
MOA09VOP010	EFF CMP #2 ✓	3	"	1200		10
MOA09VOP011	EFF CMP #3 ✓	3		1500		11
MOA09VOP012	EFF CMP #4 ✓	3		1800		12
MOA09VOP013	EFF CMP #5 ✓	3		2100		13
MOA09VOP014	EFF CMP #6 ✓	3	6/24/9	0000		14
MOA09VOP015	EFF CMP #7 ✓	3		0300		15
MOA09VOP016	EFF CMP #8 ✓	3		0600		16 ✓
						18 A

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 IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS	6/24/9 (03)	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\DRYVOP09COC.wpd

SGS

1092874

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**_____
	✓		Payment received: $_____ by Check or Credit Card
	✓		Will courier charges apply?
✓			Data package required? (Level: 1 / 2 / 3 / 4)
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): ~~Standard~~ -or- Rush

Received Date: 6/24/09

Received Time: 1300

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	8.0 °C	70D
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

(Client) / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: (√ *if applicable*)

- ____ Extra Sample Volume?
- ____ Limited Sample Volume?
- ____ Multi-Incremental Samples?
- ____ Lab-filtered for dissolved____
- ✓ Ref Lab required for____
- ____ Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.*
		If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes:

samples jars for ①-⑯ AB do not say ascorbic acid but COC does. only 2 jars were received at lab for ①-⑯ not 3 ☺ both like COC states

Completed by (sign): _____ **(print):** Joe Rud

Login proof: Self-check completed JJR **Peer-reviewer's Initials** ____

Form # F004r20 revised 05/05/2009

1092874

SGS

SAMPLE RECEIPT FORM (page 2)

SGS WO#

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1-8	A	1	Composite P.O.								8		✓					✓			✓								
	B	1	extra Volume								8		✓					✓			✓								
9-16	A	1	Composite P.O								8		✓					✓			✓								
	B	1	extra Volume								8		✓					✓			✓								
17	A,B	1	624 composite of ①-⑧ A									2							✓		✓								P.O.
	~~B~~																												
18	A,B	1	624 composite of ⑨-⑯ A									2							✓		✓								P.O.
19	A-C	1	624								~~3~~ 2		✓					✓			✓								
20	A-C	1	624		✓						3		✓					✓			✓								
			Bottle Totals								~~28~~ 30 37	24																	

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: Joe Rud Date: 6/24/09

Form # F004r20 revised 05/05/2009

SGS

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

Report Number: G552-607

Client Project: KLI-AWWU (KLI#516.01)

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 Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager July 9. 2009
Project Manager Date
Barbara Hager

5500 Business Dr., Wilmington, NC 28405 t (910) 350-1903 f (910) 350-1557 www.us.sgs.com

Member of the SGS Group

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are 10% < %R < LCL; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:
1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
2) Uncertainty for all reported data is less than or equal to 30 percent.

Results for Volatiles
by GCMS 624

Client Sample ID: INF Composite
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-1A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/25/2009 11:00
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	25.0	2.93	1	7/1/2009	
Acrylonitrile	BQL	25.0	2.93	1	7/1/2009	
Benzene	**0.220**	1.00	0.0650	1	7/1/2009	J
Bromodichloromethane	BQL	1.00	0.0760	1	7/1/2009	
Bromoform	BQL	1.00	0.120	1	7/1/2009	
Bromomethane	BQL	1.00	0.133	1	7/1/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	7/1/2009	
Chlorobenzene	BQL	1.00	0.0820	1	7/1/2009	
Chloroethane	BQL	1.00	0.106	1	7/1/2009	
2-Chloroethyl vinyl ether	BQL	12.5	3.01	1	7/1/2009	
Chloroform	**2.14**	1.00	0.0790	1	7/1/2009	
Chloromethane	BQL	1.00	0.146	1	7/1/2009	
Dibromochloromethane	BQL	1.00	0.0900	1	7/1/2009	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	7/1/2009	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	7/1/2009	
1,4-Dichlorobenzene	**0.770**	1.00	0.0790	1	7/1/2009	J
1,1-Dichloroethane	BQL	1.00	0.0740	1	7/1/2009	
1,1-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	7/1/2009	
trans-1,2-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	7/1/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	7/1/2009	
Ethylbenzene	**2.01**	1.00	0.0770	1	7/1/2009	
Methylene chloride	**12.5**	1.00	0.0980	1	7/1/2009	
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.0670	1	7/1/2009	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.115	1	7/1/2009	
Tetrachloroethene	**1.67**	1.00	0.0690	1	7/1/2009	
Toluene	**13.0**	1.00	0.0760	1	7/1/2009	
Trichloroethene	BQL	1.00	0.0540	1	7/1/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	7/1/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	7/1/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	7/1/2009	
Vinyl chloride	BQL	1.00	0.149	1	7/1/2009	
m/p-Xylene	**6.06**	1.00	0.0980	1	7/1/2009	
o-Xylene	**2.37**	1.00	0.0650	1	7/1/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.58	96
Toluene-d8	10	9.82	98
4-Bromofluorobenzene	10	9.27	93

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: INF Composite
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-1A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/25/2009 11:00
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624

Client Sample ID: EFF Composite
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-2A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/25/2009 11:00
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	25.0	2.93	1	7/1/2009	
Acrylonitrile	BQL	25.0	2.93	1	7/1/2009	
Benzene	**0.240**	1.00	0.0650	1	7/1/2009	J
Bromodichloromethane	BQL	1.00	0.0760	1	7/1/2009	
Bromoform	BQL	1.00	0.120	1	7/1/2009	
Bromomethane	BQL	1.00	0.133	1	7/1/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	7/1/2009	
Chlorobenzene	BQL	1.00	0.0820	1	7/1/2009	
Chloroethane	BQL	1.00	0.106	1	7/1/2009	
2-Chloroethyl vinyl ether	BQL	12.5	3.01	1	7/1/2009	
Chloroform	**3.24**	1.00	0.0790	1	7/1/2009	
Chloromethane	BQL	1.00	0.146	1	7/1/2009	
Dibromochloromethane	BQL	1.00	0.0900	1	7/1/2009	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	7/1/2009	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	7/1/2009	
1,4-Dichlorobenzene	**0.790**	1.00	0.0790	1	7/1/2009	J
1,1-Dichloroethane	BQL	1.00	0.0740	1	7/1/2009	
1,1-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	7/1/2009	
trans-1,2-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	7/1/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	7/1/2009	
Ethylbenzene	**1.18**	1.00	0.0770	1	7/1/2009	
Methylene chloride	**11.0**	1.00	0.0980	1	7/1/2009	
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.0670	1	7/1/2009	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.115	1	7/1/2009	
Tetrachloroethene	**1.14**	1.00	0.0690	1	7/1/2009	
Toluene	**8.84**	1.00	0.0760	1	7/1/2009	
Trichloroethene	BQL	1.00	0.0540	1	7/1/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	7/1/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	7/1/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	7/1/2009	
Vinyl chloride	BQL	1.00	0.149	1	7/1/2009	
m/p-Xylene	**2.61**	1.00	0.0980	1	7/1/2009	
o-Xylene	**1.07**	1.00	0.0650	1	7/1/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.52	95
Toluene-d8	10	9.85	98
4-Bromofluorobenzene	10	9.31	93

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: EFF Composite
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-2A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/25/2009 11:00
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624

Client Sample ID: MOA09VOP017
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-3A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/24/2009 9:12
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	50.0	5.86	2	7/1/2009	
Acrylonitrile	BQL	50.0	5.86	2	7/1/2009	
Benzene	**0.200**	2.00	0.130	2	7/1/2009	J
Bromodichloromethane	**3.78**	2.00	0.152	2	7/1/2009	
Bromoform	BQL	2.00	0.240	2	7/1/2009	
Bromomethane	BQL	2.00	0.266	2	7/1/2009	
Carbon tetrachloride	BQL	2.00	0.174	2	7/1/2009	
Chlorobenzene	BQL	2.00	0.164	2	7/1/2009	
Chloroethane	BQL	2.00	0.212	2	7/1/2009	
2-Chloroethyl vinyl ether	BQL	25.0	6.02	2	7/1/2009	
Chloroform	**37.1**	2.00	0.158	2	7/1/2009	
Chloromethane	BQL	2.00	0.292	2	7/1/2009	
Dibromochloromethane	BQL	2.00	0.180	2	7/1/2009	
1,2-Dichlorobenzene	BQL	2.00	0.254	2	7/1/2009	
1,3-Dichlorobenzene	BQL	2.00	0.162	2	7/1/2009	
1,4-Dichlorobenzene	BQL	2.00	0.158	2	7/1/2009	
1,1-Dichloroethane	BQL	2.00	0.148	2	7/1/2009	
1,1-Dichloroethene	BQL	2.00	0.178	2	7/1/2009	
1,2-Dichloroethane	BQL	2.00	0.158	2	7/1/2009	
trans-1,2-Dichloroethene	BQL	2.00	0.178	2	7/1/2009	
1,2-Dichloropropane	BQL	2.00	0.188	2	7/1/2009	
cis-1,3-Dichloropropene	BQL	2.00	0.152	2	7/1/2009	
trans-1,3-Dichloropropene	BQL	2.00	0.152	2	7/1/2009	
Diisopropyl ether (DIPE)	BQL	2.00	0.146	2	7/1/2009	
Ethylbenzene	BQL	2.00	0.154	2	7/1/2009	
Methylene chloride	**4.30**	2.00	0.196	2	7/1/2009	
Methyl-tert-butyl ether (MTBE)	BQL	2.00	0.134	2	7/1/2009	
1,1,2,2-Tetrachloroethane	BQL	2.00	0.230	2	7/1/2009	
Tetrachloroethene	BQL	2.00	0.138	2	7/1/2009	
Toluene	**1.86**	2.00	0.152	2	7/1/2009	J
Trichloroethene	BQL	2.00	0.108	2	7/1/2009	
1,1,1-Trichloroethane	BQL	2.00	0.108	2	7/1/2009	
1,1,2-Trichloroethane	BQL	2.00	0.364	2	7/1/2009	
Trichlorofluoromethane	BQL	2.00	0.222	2	7/1/2009	
Vinyl chloride	BQL	2.00	0.298	2	7/1/2009	
m/p-Xylene	**1.76**	2.00	0.196	2	7/1/2009	J
o-Xylene	**1.00**	2.00	0.130	2	7/1/2009	J

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.3	103
Toluene-d8	10	9.83	98
4-Bromofluorobenzene	10	8.96	90

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: MOA09VOP017
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-3A
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/24/2009 9:12
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624

Client Sample ID: MOA09VOP018 (Trip Blank)
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-4B
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/24/2009 9:10
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	25.0	2.93	1	7/7/2009	
Acrylonitrile	BQL	25.0	2.93	1	7/7/2009	
Benzene	BQL	1.00	0.0650	1	7/7/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	7/7/2009	
Bromoform	BQL	1.00	0.120	1	7/7/2009	
Bromomethane	BQL	1.00	0.133	1	7/7/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	7/7/2009	
Chlorobenzene	BQL	1.00	0.0820	1	7/7/2009	
Chloroethane	BQL	1.00	0.106	1	7/7/2009	
2-Chloroethyl vinyl ether	BQL	12.5	3.01	1	7/7/2009	
Chloroform	BQL	1.00	0.0790	1	7/7/2009	
Chloromethane	BQL	1.00	0.146	1	7/7/2009	
Dibromochloromethane	BQL	1.00	0.0900	1	7/7/2009	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	7/7/2009	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	7/7/2009	
1,4-Dichlorobenzene	BQL	1.00	0.0790	1	7/7/2009	
1,1-Dichloroethane	BQL	1.00	0.0740	1	7/7/2009	
1,1-Dichloroethene	BQL	1.00	0.0890	1	7/7/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	7/7/2009	
trans-1,2-Dichloroethene	BQL	1.00	0.0890	1	7/7/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	7/7/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/7/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/7/2009	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	7/7/2009	
Ethylbenzene	BQL	1.00	0.0770	1	7/7/2009	
Methylene chloride	**0.400**	1.00	0.0980	1	7/7/2009	J
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.0670	1	7/7/2009	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.115	1	7/7/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	7/7/2009	
Toluene	BQL	1.00	0.0760	1	7/7/2009	
Trichloroethene	BQL	1.00	0.0540	1	7/7/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	7/7/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	7/7/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	7/7/2009	
Vinyl chloride	BQL	1.00	0.149	1	7/7/2009	
m/p-Xylene	BQL	1.00	0.0980	1	7/7/2009	
o-Xylene	BQL	1.00	0.0650	1	7/7/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	9.94	99
Toluene-d8	10	9.13	91
4-Bromofluorobenzene	10	9.02	90

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: MOA09VOP018 (Trip Blank)
Client Project ID: KLI-AWWU (KLI#516.01)
Lab Sample ID: G552-607-4B
Lab Project ID: G552-607

Analyzed By: MJC
Date Collected: 6/24/2009 9:10
Date Received: 6/26/2009
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070109B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	25.0	2.93	1	7/1/2009	
Acrylonitrile	BQL	25.0	2.93	1	7/1/2009	
Benzene	BQL	1.00	0.0650	1	7/1/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	7/1/2009	
Bromoform	BQL	1.00	0.120	1	7/1/2009	
Bromomethane	BQL	1.00	0.133	1	7/1/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	7/1/2009	
Chlorobenzene	BQL	1.00	0.0820	1	7/1/2009	
Chloroethane	BQL	1.00	0.106	1	7/1/2009	
2-Chloroethyl vinyl ether	BQL	12.5	3.01	1	7/1/2009	
Chloroform	BQL	1.00	0.0790	1	7/1/2009	
Chloromethane	BQL	1.00	0.146	1	7/1/2009	
Dibromochloromethane	BQL	1.00	0.0900	1	7/1/2009	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	7/1/2009	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	7/1/2009	
1,4-Dichlorobenzene	BQL	1.00	0.0790	1	7/1/2009	
1,1-Dichloroethane	BQL	1.00	0.0740	1	7/1/2009	
1,1-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	7/1/2009	
trans-1,2-Dichloroethene	BQL	1.00	0.0890	1	7/1/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	7/1/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/1/2009	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	7/1/2009	
Ethylbenzene	BQL	1.00	0.0770	1	7/1/2009	
Methylene chloride	BQL	1.00	0.0980	1	7/1/2009	
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.0670	1	7/1/2009	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.115	1	7/1/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	7/1/2009	
Toluene	BQL	1.00	0.0760	1	7/1/2009	
Trichloroethene	BQL	1.00	0.0540	1	7/1/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	7/1/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	7/1/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	7/1/2009	
Vinyl chloride	BQL	1.00	0.149	1	7/1/2009	
m/p-Xylene	BQL	1.00	0.0980	1	7/1/2009	
o-Xylene	BQL	1.00	0.0650	1	7/1/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	10	11	110

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070109B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: DVO

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS8070109a
Sample wt/vol: 5.00 (mL) Lab File ID: 0701806.D
Level: (low/med) NA
% Moisture: not dec. NA Date Analyzed: 2009-07-01 09:14
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
67-64-1	acetone	25.0	27.1	108	23.5-141
107-02-8	acrolein	125	171	137	31.4-182
107-13-1	acrylonitrile	125	130	104	64.2-140
71-43-2	benzene	5.00	4.78	95.6	76.6-120
108-86-1	bromobenzene	5.00	5.07	101	75.0-122
74-97-5	bromochloromethane	5.00	5.10	102	74.8-127
75-27-4	bromodichloromethane	5.00	5.01	100	76.4-117
75-25-2	bromoform	5.00	4.18	83.6	62.4-127
74-83-9	bromomethane	5.00	4.73	94.6	34.2-166
78-93-3	2-butanone	25.0	25.4	101	44.9-126
104-51-8	n-butylbenzene	5.00	4.13	82.6	72.0-122
135-98-8	sec-butylbenzene	5.00	4.23	84.6	78.3-116
98-06-6	tert-butylbenzene	5.00	4.29	85.8	53.1-148
75-15-0	Carbon disulfide	5.00	4.52	90.4	69.0-118
56-23-5	carbon tetrachloride	5.00	4.98	99.6	71.7-124
108-90-7	chlorobenzene	5.00	4.63	92.6	75.5-116
75-00-3	chloroethane	5.00	5.08	102	78.2-138
110-75-8	2-chloroethyl vinyl ether	125	121	96.8	5.57-235
67-66-3	chloroform	5.00	4.81	96.2	80.6-117
74-87-3	chloromethane	5.00	4.77	95.4	72.6-127
95-49-8	2-chlorotoluene	5.00	4.46	89.2	81.4-117
106-43-4	4-chlorotoluene	5.00	4.27	85.4	82.1-116
124-48-1	dibromochloromethane	5.00	4.56	91.2	73.1-117
96-12-8	1,2-dibromo-3-chloropropane	25.0	19.4	77.7	58.0-133
106-93-4	1,2-dibromoethane	5.00	4.61	92.2	75.5-118
74-95-3	dibromomethane	5.00	4.84	96.8	77.3-124
95-50-1	1,2-dichlorobenzene	5.00	4.11	82.2	76.3-115
541-73-1	1,3-dichlorobenzene	5.00	4.15	83.0	79.1-114
106-46-7	1,4-dichlorobenzene	5.00	3.99	79.8	76.8-115
110-57-6	trans-1,4-Dichloro-2-butene	25.0	20.9	83.8	52.3-130
75-71-8	dichlorodifluoromethane	5.00	4.99	99.8	69.8-134
75-34-3	1,1-dichloroethane	5.00	5.08	102	78.0-120
107-06-2	1,2-dichloroethane	5.00	5.01	100	72.8-126
75-35-4	1,1-dichloroethene	5.00	5.24	105	74.6-121
156-59-2	cis-1,2-dichloroethene	5.00	5.10	102	78.0-121
156-60-5	trans-1,2-dichloroethene	5.00	4.85	97.0	60.7-144
78-87-5	1,2-dichloropropane	5.00	4.84	96.8	75.8-119
142-28-9	1,3-dichloropropane	5.00	4.62	92.4	78.5-113
594-20-7	2,2-dichloropropane	5.00	5.13	103	75.6-130
563-58-6	1,1-dichloropropene	5.00	5.14	103	79.7-117
10061-01-5	cis-1,3-dichloropropene	5.00	5.11	102	79.8-113

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS8070109a
Sample wt/vol: 5.00 (mL) Lab File ID: 0701806.D
Level: (low/med) NA
% Moisture: not dec. NA Date Analyzed: 2009-07-01 09:14
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	5.00	5.04	101	79.0-113
108-20-3	Diisopropyl ether	5.00	4.99	99.8	71.8-115
100-41-4	ethylbenzene	5.00	4.50	90.0	80.5-115
87-68-3	hexachlorobutadiene	5.00	4.04	80.8	63.3-139
591-78-6	2-hexanone	25.0	24.2	96.9	46.8-123
74-88-4	Iodomethane	5.00	5.13	103	29.3-156
98-82-8	isopropylbenzene	5.00	4.69	93.8	81.6-114
99-87-6	4-isopropyltoluene	5.00	4.14	82.8	78.4-119
1634-04-4	Methyl-tert-butyl ether	5.00	5.21	104	76.0-114
75-09-2	methylene chloride	5.00	4.96	99.2	72.9-120
108-10-1	4-methyl-2-pentanone	25.0	25.8	103	56.2-124
91-20-3	naphthalene	5.00	4.75	95.0	24.8-182
103-65-1	n-propyl benzene	5.00	4.45	89.0	79.0-116
100-42-5	styrene	5.00	4.32	86.4	64.8-132
630-20-6	1,1,1,2-tetrachloroethane	5.00	4.38	87.6	78.8-118
79-34-5	1,1,2,2-tetrachloroethane	5.00	4.62	92.4	69.7-119
127-18-4	tetrachloroethene	5.00	4.54	90.8	55.3-144
108-88-3	toluene	5.00	4.93	98.6	78.6-117
87-61-6	1,2,3-trichlorobenzene	5.00	4.60	92.0	20.8-193
120-82-1	1,2,4-trichlorobenzene	5.00	4.15	83.0	47.9-150
71-55-6	1,1,1-trichloroethane	5.00	4.96	99.2	78.8-120
79-00-5	1,1,2-trichloroethane	5.00	4.50	90.0	73.6-117
79-01-6	trichloroethene	5.00	4.98	99.6	80.1-116
75-69-4	trichlorofluoromethane	5.00	5.18	104	80.5-130
96-18-4	1,2,3-trichloropropane	5.00	4.34	86.8	35.6-152
95-63-3	1,2,4-trimethylbenzene	5.00	4.38	87.6	77.0-116
108-67-8	1,3,5-trimethylbenzene	5.00	4.42	88.4	79.4-114
108-05-4	Vinyl acetate	12.5	9.99	79.9	60.7-127
75-01-4	vinyl chloride	5.00	5.04	101	77.5-126
108-38-3	m/p-xylene	10.0	8.62	86.2	82.9-112
95-47-6	o-xylene	5.00	4.38	87.6	81.3-113

System Monitoring Compound Results		Spike Added (µg/L)	Spike Result (µg/L)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	10	11.0	114	84.7-115
17060-07-0	1,2-Dichloroethane-d4	10	10.0	105	63.5-140
2037-26-5	Toluene-d8	10	11.0	106	81.8-117

LCS Spike Recovery: 0 failure(s) out of 72.

Analyst: Reviewed by: OVD

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Lab Code: NC00919 Inst: MSD8

	EPA Sample No.:	Amt.	Filenames:	Analysis Dates:	Batch: 8070109
Sample	G460-135-3a	5 mL	0701815.D	2009-07-01 13:48:00	Dilution: 40
MS	G460-135-3a	5 mL	0701816.D	2009-07-01 14:18:00	Matrix: Water
MSD	G460-135-3a	5 mL	0701817.D	2009-07-01 14:48:00	

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	1000	1170	117*	1000	1150	115*	1.86	30	17.7-85.2
acrolein	BQL	5000	6540	131	5000	7420	148	12.6	30	0.00-424
acrylonitrile	BQL	5000	5090	102	5000	5670	113	10.8	30	85.0-175
benzene	85.2	200	291	103	200	288	102	1.37	30	61.6-135
bromobenzene	BQL	200	169	84.4	200	216	108	24.5	30	65.1-125
bromochloromethane	BQL	200	217	108	200	205	102	5.69	30	75.5-126
bromodichloromethane	BQL	200	201	100	200	159	79.4	23.4	30	74.3-123
bromoform	BQL	200	164	82.0	200	211	106	25.2	30	52.3-122
bromomethane	BQL	200	156	78.0	200	175	87.6	11.6	30	10.0-284
2-butanone	BQL	1000	1160	116*	1000	944	94.4	20.5	30	36.1-107
n-butylbenzene	BQL	200	178	89.2	200	200	99.8	11.2	30	70.2-124
sec-butylbenzene	BQL	200	164	81.8	200	188	93.8	13.7	30	62.0-133
tert-butylbenzene	BQL	200	170	85.2	200	195	97.6	13.6	30	73.5-121
Carbon disulfide	BQL	200	174	87.0	200	176	88.2	1.37	30	68.8-129
carbon tetrachloride	BQL	200	196	98.2	200	199	99.4	1.21	30	71.8-122
chlorobenzene	BQL	200	168	83.8	200	183	91.4	8.68	30	77.2-118
chloroethane	BQL	200	174	87.0	200	189	94.4	8.16	30	10.0-233
2-chloroethyl vinyl ether	BQL	500	210	42.0	500	88.4	17.7	81.5*	30	16.7-283
chloroform	BQL	200	192	96.2	200	186	93.0	3.38	30	74.0-128
chloromethane	BQL	200	182	90.8	200	196	98.0	7.63	30	72.0-138
2-chlorotoluene	BQL	200	168	84.0	200	202	101	18.6	30	79.3-118
4-chlorotoluene	BQL	200	170	85.2	200	197	98.6	14.6	30	76.8-120
dibromochloromethane	BQL	200	187	93.6	200	199	99.6	6.21	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	1000	1020	102	1000	1210	121	17.5	30	20.2-171
1,2-dibromoethane	BQL	200	194	97.0	200	195	97.4	0.412	30	78.5-123
dibromomethane	BQL	200	212	106	200	166	83.2	23.9	30	71.3-137
1,2-dichlorobenzene	BQL	200	182	90.8	200	207	104	13.2	30	75.1-120
1,3-dichlorobenzene	BQL	200	168	84.0	200	194	97.0	14.4	30	73.1-121
1,4-dichlorobenzene	BQL	200	170	85.0	200	196	97.8	14.0	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	1000	919	91.9	1000	1120	112	20.2	30	25.7-149
dichlorodifluoromethane	BQL	200	164	81.8	200	189	94.4	14.3	30	41.7-166
1,1-dichloroethane	BQL	200	203	101	200	178	88.8	13.2	30	75.6-128
1,2-dichloroethane	BQL	200	216	108	200	214	107	0.932	30	71.1-127
1,1-dichloroethene	BQL	200	200	99.8	200	202	101	0.997	30	64.4-130
cis-1,2-dichloroethene	BQL	200	194	96.8	200	170	84.8	13.2	30	72.7-134
trans-1,2-dichloroethene	BQL	200	192	96.2	200	191	95.6	0.626	30	74.6-124
1,2-dichloropropane	BQL	200	206	103	200	157	78.4	26.9	30	76.5-129
1,3-dichloropropane	BQL	200	195	97.4	200	194	97.2	0.206	30	79.1-121
2,2-dichloropropane	BQL	200	185	92.4	200	164	82.2	11.7	30	31.5-157
1,1-dichloropropene	BQL	200	199	99.6	200	200	100	0.401	30	72.5-120
cis-1,3-dichloropropene	BQL	200	192	95.8	200	150	74.8	24.6	30	66.6-132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Inst: MSD8

Lab Code: NC00919 — Batch: 8070109

EPA Sample No.: G460-135-3a, G460-135-3a, G460-135-3a — Dilution: 40

Filenames: 0701815.D, 0701816.D, 0701817.D — Matrix: Water

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	200	207	104	200	168	84.2	20.7	30	44.7-144
Diisopropyl ether	117	200	337	110	200	287	85.2	25.4	30	79.4-122
ethylbenzene	97.6	200	265	83.8	200	292	97.2	14.8	30	73.8-126
hexachlorobutadiene	BQL	200	153	76.4	200	182	91.0	17.4	30	51.8-134
2-hexanone	BQL	1000	1160	116*	1000	1140	114*	1.56	30	41.6-111
Iodomethane	BQL	200	173	86.6	200	180	90.0	3.85	30	40.6-126
isopropylbenzene	BQL	200	167	83.4	200	197	98.4	16.5	30	74.3-123
4-isopropyltoluene	BQL	200	165	82.4	200	190	94.8	14.0	30	74.6-122
Methyl-tert-butyl ether	664	200	928	132	200	958	147*	10.8	30	66.5-136
methylene chloride	BQL	200	209	104	200	202	101	3.11	30	48.6-155
4-methyl-2-pentanone	BQL	1000	1230	123	1000	1010	101	19.4	30	6.88-166
naphthalene	BQL	200	232	116	200	242	121	4.38	30	55.1-140
n-propyl benzene	BQL	200	180	89.8	200	206	103	13.7	30	71.6-128
styrene	BQL	200	182	91.0	200	201	101	10.0	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	200	166	83.2	200	184	92.2	10.3	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	200	201	100	200	247	123	20.6	30	75.7-136
tetrachloroethene	BQL	200	163	81.6	200	162	80.8	0.985	30	45.8-153
toluene	426	200	641	107	200	559	66.4	47.0*	30	66.4-128
1,2,3-trichlorobenzene	BQL	200	192	96.0	200	202	101	5.08	30	61.0-126
1,2,4-trichlorobenzene	BQL	200	175	87.4	200	190	94.8	8.12	30	60.6-125
1,1,1-trichloroethane	BQL	200	196	97.8	200	194	97.2	0.615	30	78.4-121
1,1,2-trichloroethane	BQL	200	196	98.2	200	209	105	6.31	30	64.8-128
trichloroethene	BQL	200	196	98.0	200	183	91.4	6.97	30	84.9-136
trichlorofluoromethane	BQL	200	177	88.6	200	198	99.2	11.3	30	76.8-132
1,2,3-trichloropropane	BQL	200	181	90.4	200	223	111	20.8	30	10.0-218
1,2,4-trimethylbenzene	126	200	348	111	200	390	132	17.3	30	31.0-172
1,3,5-trimethylbenzene	53.6	200	227	86.6	200	258	102	16.5	30	67.7-132
Vinyl acetate	BQL	500	632	126	500	535	107	16.7	30	0.00-355
vinyl chloride	BQL	200	182	90.8	200	200	100	9.64	30	68.1-137
m/p-xylene	444	400	804	89.8	400	866	105	16.1	30	79.8-118
o-xylene	267	200	463	98.0	200	524	128*	27.0	30	80.0-121

System Monitoring Compound Results

		MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	QC LIMITS REC
460-00-4	4-Bromofluorobenzene	10	9.88	98.8	10	11.8	118*	84.7-115
17060-07-0	1,2-Dichloroethane-d4	10	9.5	95.0	10	10.76	108	63.5-140
2037-26-5	Toluene-d8	10	10.07	101	10	8.51	85.1	81.8-117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MS Spike Recovery: 3 failure(s) out of 72. MSD Spike Recovery: 4 failure(s) out of 72.

RPD: 2 out of 72 outside of limits

COMMENTS: _____

Analyst: _____ Reviewed by: _____

Results for Volatiles
by GCMS 624

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070709B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Acrolein	BQL	25.0	2.93	1	7/7/2009	
Acrylonitrile	BQL	25.0	2.93	1	7/7/2009	
Benzene	BQL	1.00	0.0650	1	7/7/2009	
Bromodichloromethane	BQL	1.00	0.0760	1	7/7/2009	
Bromoform	BQL	1.00	0.120	1	7/7/2009	
Bromomethane	BQL	1.00	0.133	1	7/7/2009	
Carbon tetrachloride	BQL	1.00	0.0870	1	7/7/2009	
Chlorobenzene	BQL	1.00	0.0820	1	7/7/2009	
Chloroethane	BQL	1.00	0.106	1	7/7/2009	
2-Chloroethyl vinyl ether	BQL	12.5	3.01	1	7/7/2009	
Chloroform	BQL	1.00	0.0790	1	7/7/2009	
Chloromethane	BQL	1.00	0.146	1	7/7/2009	
Dibromochloromethane	BQL	1.00	0.0900	1	7/7/2009	
1,2-Dichlorobenzene	BQL	1.00	0.127	1	7/7/2009	
1,3-Dichlorobenzene	BQL	1.00	0.0810	1	7/7/2009	
1,4-Dichlorobenzene	BQL	1.00	0.0790	1	7/7/2009	
1,1-Dichloroethane	BQL	1.00	0.0740	1	7/7/2009	
1,1-Dichloroethene	BQL	1.00	0.0890	1	7/7/2009	
1,2-Dichloroethane	BQL	1.00	0.0790	1	7/7/2009	
trans-1,2-Dichloroethene	BQL	1.00	0.0890	1	7/7/2009	
1,2-Dichloropropane	BQL	1.00	0.0940	1	7/7/2009	
cis-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/7/2009	
trans-1,3-Dichloropropene	BQL	1.00	0.0760	1	7/7/2009	
Diisopropyl ether (DIPE)	BQL	1.00	0.0730	1	7/7/2009	
Ethylbenzene	BQL	1.00	0.0770	1	7/7/2009	
Methylene chloride	BQL	1.00	0.0980	1	7/7/2009	
Methyl-tert-butyl ether (MTBE)	BQL	1.00	0.0670	1	7/7/2009	
1,1,2,2-Tetrachloroethane	BQL	1.00	0.115	1	7/7/2009	
Tetrachloroethene	BQL	1.00	0.0690	1	7/7/2009	
Toluene	BQL	1.00	0.0760	1	7/7/2009	
Trichloroethene	BQL	1.00	0.0540	1	7/7/2009	
1,1,1-Trichloroethane	BQL	1.00	0.0540	1	7/7/2009	
1,1,2-Trichloroethane	BQL	1.00	0.182	1	7/7/2009	
Trichlorofluoromethane	BQL	1.00	0.111	1	7/7/2009	
Vinyl chloride	BQL	1.00	0.149	1	7/7/2009	
m/p-Xylene	BQL	1.00	0.0980	1	7/7/2009	
o-Xylene	BQL	1.00	0.0650	1	7/7/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	11.2	112
4-Bromofluorobenzene	10	8.97	90

Comments:

Results for Volatiles
by GCMS 624

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070709B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water
Sample Amount: 5 mL

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Dilution: 1

Lab Code: NC00919 — Matrix: Water

LCS: LCS8070709A — Filename: 0707806.D — Date Analyzed: 07/07/09 09:31

LCSD: LCS8070709B — Filename: 0707807.D — Date Analyzed: 07/07/09 10:01

COMPOUND	LCS SPIKE (µg/L)	LCS CONC (µg/L)	LCS % REC #	LCSD SPIKE (µg/L)	LCSD CONC (µg/L)	LCSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	25.0	22.8	91.1	25.0	21.7	86.7	4.90	30	23.5-141
acrolein	125	149	119	125	138	110	7.55	30	31.4-182
acrylonitrile	125	134	107	125	123	98.2	8.77	30	64.2-140
benzene	5.00	4.91	98.2	5.00	4.69	93.8	4.58	30	76.6-120
bromobenzene	5.00	4.62	92.4	5.00	4.79	95.8	3.61	30	75.0-122
bromochloromethane	5.00	4.82	96.4	5.00	4.55	91.0	5.76	30	74.8-127
bromodichloromethane	5.00	5.52	110	5.00	5.17	103	6.55	30	76.4-117
bromoform	5.00	4.42	88.4	5.00	4.44	88.8	0.451	30	62.4-127
bromomethane	5.00	6.30	126	5.00	5.78	116	8.61	30	34.2-166
2-butanone	25.0	24.9	99.7	25.0	23.7	94.8	5.06	30	44.9-126
n-butylbenzene	5.00	4.48	89.6	5.00	4.51	90.2	0.667	30	72.0-122
sec-butylbenzene	5.00	4.68	93.6	5.00	4.63	92.6	1.07	30	78.3-116
tert-butylbenzene	5.00	4.66	93.2	5.00	4.62	92.4	0.862	30	53.1-148
Carbon disulfide	5.00	4.45	89.0	5.00	4.29	85.8	3.66	30	69.0-118
carbon tetrachloride	5.00	4.99	99.8	5.00	4.83	96.6	3.26	30	71.7-124
chlorobenzene	5.00	4.79	95.8	5.00	4.68	93.6	2.32	30	75.5-116
chloroethane	5.00	5.49	110	5.00	5.08	102	7.76	30	78.2-138
2-chloroethyl vinyl ether	125	145	116	125	135	108	6.94	30	5.57-235
chloroform	5.00	4.92	98.4	5.00	4.72	94.4	4.15	30	80.6-117
chloromethane	5.00	5.02	100	5.00	4.67	93.4	7.22	30	72.6-127
2-chlorotoluene	5.00	4.62	92.4	5.00	4.67	93.4	1.08	30	81.4-117
4-chlorotoluene	5.00	4.63	92.6	5.00	4.50	90.0	2.85	30	82.1-116
dibromochloromethane	5.00	4.83	96.6	5.00	4.97	99.4	2.86	30	73.1-117
1,2-dibromo-3-chloropropane	25.0	21.6	86.6	25.0	21.6	86.2	0.416	30	58.0-133
1,2-dibromoethane	5.00	5.03	101	5.00	4.88	97.6	3.03	30	75.5-118
dibromomethane	5.00	5.27	105	5.00	4.98	99.6	5.66	30	77.3-124
1,2-dichlorobenzene	5.00	4.47	89.4	5.00	4.54	90.8	1.55	30	76.3-115
1,3-dichlorobenzene	5.00	4.64	92.8	5.00	4.68	93.6	0.858	30	79.1-114
1,4-dichlorobenzene	5.00	4.63	92.6	5.00	4.59	91.8	0.868	30	76.8-115
trans-1,4-Dichloro-2-butene	25.0	21.2	84.9	25.0	20.8	83.2	2.00	30	52.3-130
dichlorodifluoromethane	5.00	5.27	105	5.00	4.78	95.6	9.75	30	69.8-134
1,1-dichloroethane	5.00	4.97	99.4	5.00	4.62	92.4	7.30	30	78.0-120
1,2-dichloroethane	5.00	5.07	101	5.00	4.82	96.4	5.06	30	72.8-126
1,1-dichloroethene	5.00	4.94	98.8	5.00	4.78	95.6	3.29	30	74.6-121
cis-1,2-dichloroethene	5.00	5.00	100	5.00	4.74	94.8	5.34	30	78.0-121
trans-1,2-dichloroethene	5.00	4.93	98.6	5.00	4.76	95.2	3.51	30	60.7-144
1,2-dichloropropane	5.00	5.40	108	5.00	5.11	102	5.52	30	75.8-119
1,3-dichloropropane	5.00	5.13	103	5.00	4.93	98.6	3.98	30	78.5-113
2,2-dichloropropane	5.00	5.06	101	5.00	4.70	94.0	7.38	30	75.6-130
1,1-dichloropropene	5.00	5.26	105	5.00	5.09	102	3.28	30	79.7-117
cis-1,3-dichloropropene	5.00	5.53	111	5.00	5.44	109	1.64	30	79.8-113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Dilution: 1
Lab Code: NC00919 — Matrix: Water
LCS: LCS8070709A — Filename: 0707806.D — Date Analyzed: 07/07/09 09:31
LCSD: LCS8070709B — Filename: 0707807.D — Date Analyzed: 07/07/09 10:01

COMPOUND	LCS SPIKE (µg/L)	LCS CONC (µg/L)	LCS % REC #	LCSD SPIKE (µg/L)	LCSD CONC (µg/L)	LCSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	5.00	5.17	103	5.00	4.58	91.6	12.1	30	79.0-113
Diisopropyl ether	5.00	5.20	104	5.00	4.89	97.8	6.14	30	71.8-115
ethylbenzene	5.00	5.07	101	5.00	4.84	96.8	4.64	30	80.5-115
hexachlorobutadiene	5.00	4.42	88.4	5.00	5.06	101	13.5	30	63.3-139
2-hexanone	25.0	26.7	107	25.0	24.9	99.5	6.91	30	46.8-123
Iodomethane	5.00	4.66	93.2	5.00	4.36	87.2	6.65	30	29.3-156
isopropylbenzene	5.00	4.75	95.0	5.00	4.77	95.4	0.420	30	81.6-114
4-isopropyltoluene	5.00	4.68	93.6	5.00	4.68	93.6	0.00	30	78.4-119
Methyl-tert-butyl ether	5.00	5.04	101	5.00	4.75	95.0	5.92	30	76.0-114
methylene chloride	5.00	4.81	96.2	5.00	4.57	91.4	5.12	30	72.9-120
4-methyl-2-pentanone	25.0	26.5	106	25.0	22.6	90.6	15.8	30	56.2-124
naphthalene	5.00	4.17	83.4	5.00	4.75	95.0	13.0	30	24.8-182
n-propyl benzene	5.00	4.74	94.8	5.00	4.75	95.0	0.211	30	79.0-116
styrene	5.00	4.59	91.8	5.00	4.55	91.0	0.875	30	64.8-132
1,1,1,2-tetrachloroethane	5.00	4.72	94.4	5.00	4.75	95.0	0.634	30	78.8-118
1,1,2,2-tetrachloroethane	5.00	4.42	88.4	5.00	4.63	92.6	4.64	30	69.7-119
tetrachloroethene	5.00	5.09	102	5.00	4.88	97.6	4.21	30	55.3-144
toluene	5.00	5.21	104	5.00	4.57	91.4	12.9	30	78.6-117
1,2,3-trichlorobenzene	5.00	4.51	90.2	5.00	4.73	94.6	4.76	30	20.8-193
1,2,4-trichlorobenzene	5.00	4.06	81.2	5.00	4.85	97.0	17.7	30	47.9-150
1,1,1-trichloroethane	5.00	5.08	102	5.00	4.90	98.0	3.61	30	78.8-120
1,1,2-trichloroethane	5.00	4.98	99.6	5.00	4.78	95.6	4.10	30	73.6-117
trichloroethene	5.00	5.52	110	5.00	5.10	102	7.55	30	80.1-116
trichlorofluoromethane	5.00	5.68	114	5.00	5.21	104	8.63	30	80.5-130
1,2,3-trichloropropane	5.00	4.53	90.6	5.00	4.74	94.8	4.53	30	35.6-152
1,2,4-trimethylbenzene	5.00	4.69	93.8	5.00	4.66	93.2	0.642	30	77.0-116
1,3,5-trimethylbenzene	5.00	4.62	92.4	5.00	4.57	91.4	1.09	30	79.4-114
Vinyl acetate	12.5	12.9	103	12.5	12.2	97.4	5.66	30	60.7-127
vinyl chloride	5.00	5.32	106	5.00	4.89	97.8	8.42	30	77.5-126
m/p-xylene	10.0	9.48	94.8	10.0	9.31	93.1	1.81	30	82.9-112
o-xylene	5.00	4.70	94.0	5.00	4.69	93.8	0.213	30	81.3-113

System Monitoring Compound Results

		LCS SPIKE (µg/L)	LCS CONC (µg/L)	LCS % REC #	LCSD SPIKE (µg/L)	LCSD CONC (µg/L)	LCSD % REC #	QC LIMITS REC
460-00-4	4-Bromofluorobenzene	10	9.22	92.2	10	10.05	100	84.7-115
17060-07-0	1,2-Dichloroethane-d4	10	9.89	98.9	10	10.29	103	63.5-140
2037-26-5	Toluene-d8	10	10.39	104	10	9.54	95.4	81.8-117

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
LCS Spike Recovery: 0 failure(s) out of 72. LCSD Spike Recovery: 0 failure(s) out of 72.
RPD: 0 out of 72 outside of limits
COMMENTS: _____

Analyst: _____ Reviewed by: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Lab Code: NC00919 Inst: MSD8

	EPA Sample No.:	Amt.	Filenames:	Analysis Dates:	Batch: 8070709
Sample	G122-3377-1a	5 mL	0707817.D	2009-07-07 15:04:00	Dilution: 20
MS	G122-3377-1a	5 mL	0707818.D	2009-07-07 15:34:00	Matrix: Water
MSD	G122-3377-1a	5 mL	0707819.D	2009-07-07 16:05:00	

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	500	464	92.8*	500	448	89.5*	3.55	30	17.7-85.2
acrolein	BQL	2500	2850	114	2500	2850	114	0.274	30	0.00-424
acrylonitrile	BQL	2500	2800	112	2500	2670	107	4.89	30	85.0-175
benzene	BQL	100	105	105	100	95.0	95.0	10.2	30	61.6-135
bromobenzene	BQL	100	82.0	82.0	100	67.6	67.6	19.2	30	65.1-125
bromochloromethane	BQL	100	108	108	100	100	100	7.68	30	75.5-126
bromodichloromethane	BQL	100	113	113	100	100	100	11.8	30	74.3-123
bromoform	BQL	100	77.6	77.6	100	75.4	75.4	2.88	30	52.3-122
bromomethane	BQL	100	123	123	100	121	121	1.64	30	10.0-284
2-butanone	BQL	500	503	101	500	464	92.7	8.23	30	36.1-107
n-butylbenzene	BQL	100	102	102	100	76.0	76.0	29.4	30	70.2-124
sec-butylbenzene	BQL	100	103	103	100	77.6	77.6	27.9	30	62.0-133
tert-butylbenzene	BQL	100	101	101	100	75.8	75.8	28.1	30	73.5-121
Carbon disulfide	BQL	100	96.6	96.6	100	90.2	90.2	6.85	30	68.8-129
carbon tetrachloride	BQL	100	103	103	100	93.6	93.6	9.17	30	71.8-122
chlorobenzene	BQL	100	84.6	84.6	100	89.8	89.8	5.96	30	77.2-118
chloroethane	BQL	100	117	117	100	111	111	5.78	30	10.0-233
2-chloroethyl vinyl ether	BQL	250	24.2	9.68*	250	0.00	0.00*	200*	30	16.7-283
chloroform	BQL	100	108	108	100	97.8	97.8	10.1	30	74.0-128
chloromethane	BQL	100	107	107	100	103	103	4.01	30	72.0-138
2-chlorotoluene	BQL	100	104	104	100	77.6	77.6*	29.4	30	79.3-118
4-chlorotoluene	BQL	100	108	108	100	82.0	82.0	27.0	30	76.8-120
dibromochloromethane	BQL	100	91.0	91.0	100	92.4	92.4	1.53	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	500	473	94.6	500	376	75.2	22.8	30	20.2-171
1,2-dibromoethane	BQL	100	86.6	86.6	100	94.8	94.8	9.04	30	78.5-123
dibromomethane	BQL	100	109	109	100	98.8	98.8	10.0	30	71.3-137
1,2-dichlorobenzene	BQL	100	106	106	100	79.4	79.4	28.7	30	75.1-120
1,3-dichlorobenzene	BQL	100	105	105	100	79.6	79.6	27.9	30	73.1-121
1,4-dichlorobenzene	BQL	100	106	106	100	82.0	82.0	26.1	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	500	482	96.3	500	346	69.2	32.7*	30	25.7-149
dichlorodifluoromethane	BQL	100	104	104	100	96.6	96.6	7.76	30	41.7-166
1,1-dichloroethane	BQL	100	107	107	100	95.0	95.0	11.9	30	75.6-128
1,2-dichloroethane	BQL	100	108	108	100	96.2	96.2	11.2	30	71.1-127
1,1-dichloroethene	BQL	100	105	105	100	99.0	99.0	5.88	30	64.4-130
cis-1,2-dichloroethene	BQL	100	103	103	100	95.2	95.2	8.06	30	72.7-134
trans-1,2-dichloroethene	BQL	100	110	110	100	99.2	99.2	9.96	30	74.6-124
1,2-dichloropropane	BQL	100	111	111	100	99.4	99.4	11.4	30	76.5-129
1,3-dichloropropane	BQL	100	102	102	100	95.2	95.2	6.50	30	79.1-121
2,2-dichloropropane	BQL	100	103	103	100	95.8	95.8	7.44	30	31.5-157
1,1-dichloropropene	BQL	100	104	104	100	95.4	95.4	8.82	30	72.5-120
cis-1,3-dichloropropene	BQL	100	110	110	100	97.6	97.6	12.1	30	66.6-132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Inst: MSD8

Lab Code: NC00919 — Batch: 8070709

EPA Sample No.: G122-3377-1a, G122-3377-1a, G122-3377-1a — Dilution: 20

Filenames: 0707817.D, 0707818.D, 0707819.D — Matrix: Water

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	108	108	100	97.4	97.4	10.3	30	44.7-144
Diisopropyl ether	BQL	100	106	106	100	98.4	98.4	7.44	30	79.4-122
ethylbenzene	BQL	100	104	104	100	93.0	93.0	11.2	30	73.8-126
hexachlorobutadiene	BQL	100	101	101	100	77.4	77.4	26.1	30	51.8-134
2-hexanone	BQL	500	460	92.1	500	472	94.4	2.44	30	41.6-111
Iodomethane	BQL	100	93.6	93.6	100	88.2	88.2	5.94	30	40.6-126
isopropylbenzene	BQL	100	99.0	99.0	100	82.0	82.0	18.8	30	74.3-123
4-isopropyltoluene	BQL	100	105	105	100	81.6	81.6	25.3	30	74.6-122
Methyl-tert-butyl ether	304	100	428	124	100	431	127	2.40	30	66.5-136
methylene chloride	BQL	100	106	106	100	98.0	98.0	7.84	30	48.6-155
4-methyl-2-pentanone	BQL	500	558	112	500	502	100	10.6	30	6.88-166
naphthalene	BQL	100	69.4	69.4	100	59.8	59.8	14.9	30	55.1-140
n-propyl benzene	BQL	100	109	109	100	83.8	83.8	26.5	30	71.6-128
styrene	BQL	100	103	103	100	85.4	85.4	19.1	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	100	82.6	82.6	100	90.6	90.6	9.24	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	100	89.8	89.8	100	77.4	77.4	14.8	30	75.7-136
tetrachloroethene	BQL	100	102	102	100	96.8	96.8	4.84	30	45.8-153
toluene	BQL	100	114	114	100	103	103	10.5	30	66.4-128
1,2,3-trichlorobenzene	BQL	100	83.8	83.8	100	71.8	71.8	15.4	30	61.0-126
1,2,4-trichlorobenzene	BQL	100	68.0	68.0	100	58.8	58.8*	14.5	30	60.6-125
1,1,1-trichloroethane	BQL	100	105	105	100	95.0	95.0	10.0	30	78.4-121
1,1,2-trichloroethane	BQL	100	104	104	100	94.4	94.4	10.1	30	64.8-128
trichloroethene	BQL	100	108	108	100	96.6	96.6	11.0	30	84.9-136
trichlorofluoromethane	BQL	100	114	114	100	109	109	4.82	30	76.8-132
1,2,3-trichloropropane	BQL	100	88.0	88.0	100	74.8	74.8	16.2	30	10.0-218
1,2,4-trimethylbenzene	BQL	100	107	107	100	83.6	83.6	24.4	30	31.0-172
1,3,5-trimethylbenzene	BQL	100	103	103	100	78.2	78.2	27.6	30	67.7-132
Vinyl acetate	BQL	250	262	105	250	242	96.6	8.25	30	0.00-355
vinyl chloride	BQL	100	101	101	100	104	104	2.34	30	68.1-137
m/p-xylene	BQL	200	209	104	200	176	88.0	17.0	30	79.8-118
o-xylene	BQL	100	101	101	100	86.6	86.6	15.0	30	80.0-121

System Monitoring Compound Results

		MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	QC LIMITS REC
460-00-4	4-Bromofluorobenzene	10	8.37	83.7*	10	8.07	80.7*	84.7-115
17060-07-0	1,2-Dichloroethane-d4	10	10.19	102	10	10.5	105	63.5-140
2037-26-5	Toluene-d8	10	11.09	111	10	10.85	108	81.8-117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MS Spike Recovery: 2 failure(s) out of 72. MSD Spike Recovery: 4 failure(s) out of 72.

RPD: 2 out of 72 outside of limits

COMMENTS: _____

Analyst: _____ Reviewed by: _____

SGS

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI-AWWU SITE/PWSID#: KLI# 516.01

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1092874

SGS Reference #: SGS-NC G552-607

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	(3) VOC 624								REMARKS/ LOC ID
	INF COMPOSITE	6/25/09	1100	H_2O	2	C	✓								1092874017
	EFF COMPOSITE	6/25/09	1100	|	2	C	✓								1092874018
	MOA Ø9VOPØ17	6/24/09	0912	|	2	G	✓								1092874019
	MOAØ9VOPØ18 (TRIP BLANK)	6/24/09	0910	H_2O	3	G	✓								1092874020

Preservatives Used: HCl

Analysis Required

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
[signature]	6/25/09	1135	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/26/09	Time 11:00	Received For Laboratory By: [signature]

(4)

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions: INCLUDE ACROLEIN & ACRYLONITRILE WITH LIST

Samples Received Cold? YES NO

Cooler TB

Temperature °C: 5.9

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

SGS North America, Inc.

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1092878

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/30/2009	18:45
Workorder	1092878	516.01			

Sample ID	**Client Sample ID**

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

1092878001 **PS** **MOA09SVL001 Influent**

625M - Elevated PQL due to sample matrix.

1092878003 **PS** **MOA09O&G001 Influent**

1664A - Sample was analyzed outside of holding time.

1092878004 **PS** **MOA09O&G002 Effluent**

1664A - Sample was analyzed outside of holding time.

1092878005 **PS** **MOA09PES001 Influent-1**

608 - Pesticides were analyzed by CAS in Kelso, WA.

1092878006 **PS** **MOA09PES002 Influent-2**

608 - Pesticides were analyzed by CAS in Kelso, WA.

1092878007 **PS** **MOA09PES003 Effluent**

608 - Pesticides were analyzed by CAS in Kelso, WA.

1092878008 **PS** **MOA09DXN001 Influent**

8280A - 2,3,7,8-TCDD Dioxins was analyzed by SGS in Wilmington, NC.

1092878009 **PS** **MOA09DXN002 Effluent**

8280A - 2,3,7,8-TCDD Dioxins was analyzed by SGS in Wilmington, NC.

1092878010 **PS** **MOA09PST001 Influent-1**

614 - Pesticides were analyzed by CAS in Kelso, WA.

1092878011 **PS** **MOA09PST002 Influent-2**

614 - Pesticides were analyzed by CAS in Kelso, WA.

1092878012 **PS** **MOA09PST003 Effluent**

614 - Pesticides were analyzed by CAS in Kelso, WA.

1092878037 **PS** **MOA09ASB002 Effluent**

101.1 - Asbestos was analyzed by LabCor in Seattle, WA.

904029 **LCSD** **LCSD for HBN 215902 [XXX/21047**

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/30/2009	18:45
Workorder	1092878	516.01			

Sample ID	**Client Sample ID**	
	8270D - LCS/LCSD RPD is outside of QC criteria for multiple analytes. The analytes are not detected above the PQL in the associated samples. 8270D - LCSD reocvery is outside of QC criteria for bis(2chloromethyethyl)ether (biased high). The compound is not detected above the PQL in the associated samples.	
904420	**CCV**	**CCV for HBN 215993 (XMS/4951)**
	8270D - CCV recovery is outside of QC criteria for mutliple analytes (biased high). The analytes are not reported above the PQL in the associated samples.	
905607	**DUP**	**0609UT100APC...(1092843001DUP)**
	4500CN - Total Cyanide - Sample duplicate RPD was outside of QC criteria. Both the sample and the duplicate are less than the PQL.	

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1092878	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 30, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

Detectable Results Summary

Print Date: 7/30/2009 6:45 pm

Client Sample ID: **MOA09SVL001 Influent**
SGS Ref. #: 1092878001

Semivolatile Organic GC/MS

Parameter	Result	Units
Benzoic acid	0.510	mg/L

Client Sample ID: **MOA09SVL002 Effluent**
SGS Ref. #: 1092878002

Semivolatile Organic GC/MS

Parameter	Result	Units
Phenol	0.0181	mg/L
Benzyl alcohol	0.0284	mg/L
3&4-Methylphenol (p&m-Cresol)	0.119	mg/L
Benzoic acid	0.241	mg/L

Client Sample ID: **MOA09O&G001 Influent**
SGS Ref. #: 1092878003

Waters Department

Parameter	Result	Units
Oil & Grease HEM	66.1	mg/L

Client Sample ID: **MOA09O&G002 Effluent**
SGS Ref. #: 1092878004

Waters Department

Parameter	Result	Units
Oil & Grease HEM	37.6	mg/L

Client Sample ID: **E1-4S MOA09CLR004**
SGS Ref. #: 1092878016

Waters Department

Parameter	Result	Units
Color	5.00	PCU

Client Sample ID: **F1-1S MOA09CLR03**
SGS Ref. #: 1092878025

Waters Department

Parameter	Result	Units
Color	8.00	PCU

Client Sample ID: **F3-4S MOA09CLR024**
SGS Ref. #: 1092878036

Waters Department

Parameter	Result	Units
Color	5.00	PCU

Detectable Results Summary

Print Date: 7/30/2009 6:45 pm

Client Sample ID: **MOA09MET001 Influent**

SGS Ref. #: 1092878040

Metals by ICP/MS

Parameter	Result	Units
Chromium	3.25	ug/L
Copper	65.5	ug/L
Lead	5.38	ug/L
Nickel	4.98	ug/L
Silver	1.85	ug/L
Zinc	158	ug/L

Client Sample ID: **MOA09MET002 Effluent**

SGS Ref. #: 1092878041

Metals by ICP/MS

Parameter	Result	Units
Copper	48.9	ug/L
Lead	2.35	ug/L
Nickel	3.62	ug/L
Silver	1.56	ug/L
Zinc	97.4	ug/L

SGS Ref.#	1092878001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL001 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

625M - Elevated PQL due to sample matrix.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Aniline	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Phenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Bis(2-Chloroethyl)ether	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Chlorophenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,3-Dichlorobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,4-Dichlorobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzyl alcohol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,2-Dichlorobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methylphenol (o-Cresol)	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Bis(2chloro1methylethyl)Ether	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3&4-Methylphenol (p&m-Cresol)	ND	0.202	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
N-Nitroso-di-n-propylamine	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachloroethane	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Nitrobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Isophorone	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Nitrophenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dimethylphenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzoic acid	0.510	0.505	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Bis(2-Chloroethoxy)methane	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,2,4-Trichlorobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Naphthalene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chloroaniline	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorobutadiene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chloro-3-methylphenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dichlorophenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methylnaphthalene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorocyclopentadiene	ND	0.303	mg/L	EPA 625	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092878001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL001 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
2,4,6-Trichlorophenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4,5-Trichlorophenol	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Chloronaphthalene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Nitroaniline	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dimethylphthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Acenaphthylene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,6-Dinitrotoluene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3-Nitroaniline	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Acenaphthene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dinitrophenol	ND	0.505	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Nitrophenol	ND	0.505	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dibenzofuran	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dinitrotoluene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Diethylphthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chlorophenyl-phenylether	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Fluorene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Nitroaniline	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methyl-4,6-dinitrophenol	ND	0.505	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
N-Nitrosodiphenylamine	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Bromophenyl-phenylether	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Pentachlorophenol	ND	0.505	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Phenanthrene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Anthracene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Di-n-butylphthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Fluoranthene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Pyrene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Azobenzene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Butylbenzylphthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3,3-Dichlorobenzidine	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092878001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL001 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Benzo(a)Anthracene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Chrysene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
bis(2-Ethylhexyl)phthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
di-n-Octylphthalate	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[b]Fluoranthene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[k]fluoranthene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[a]pyrene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Indeno[1,2,3-c,d] pyrene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dibenzo[a,h]anthracene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[g,h,i]perylene	ND	0.101	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Surrogates									
2-Fluorophenol <surr>	47.5		%	EPA 625	A	21-88	06/26/09	06/27/09	JDH
Phenol-d6 <surr>	63.4		%	EPA 625	A	28-97	06/26/09	06/27/09	JDH
Nitrobenzene-d5 <surr>	73.3		%	EPA 625	A	41-110	06/26/09	06/27/09	JDH
2-Fluorobiphenyl <surr>	85.2		%	EPA 625	A	50-110	06/26/09	06/27/09	JDH
2,4,6-Tribromophenol <surr>	84.7		%	EPA 625	A	45-124	06/26/09	06/27/09	JDH
Terphenyl-d14 <surr>	56.6		%	EPA 625	A	52-135	06/26/09	06/27/09	JDH

SGS Ref.#	1092878002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL002 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Aniline	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Phenol	0.0181	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Bis(2-Chloroethyl)ether	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Chlorophenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,3-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,4-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzyl alcohol	0.0284	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,2-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methylphenol (o-Cresol)	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Bis(2chloro1methylethyl)Ether	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3&4-Methylphenol (p&m-Cresol)	0.119	0.0204	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
N-Nitroso-di-n-propylamine	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachloroethane	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Nitrobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Isophorone	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Nitrophenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dimethylphenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzoic acid	0.241	0.0510	mg/L	EPA 625	A		06/26/09	07/06/09	JDH
Bis(2-Chloroethoxy)methane	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
1,2,4-Trichlorobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Naphthalene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chloroaniline	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorobutadiene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chloro-3-methylphenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dichlorophenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methylnaphthalene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorocyclopentadiene	ND	0.0306	mg/L	EPA 625	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092878002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL002 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
2,4,6-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4,5-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Chloronaphthalene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dimethylphthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Acenaphthylene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,6-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Acenaphthene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dinitrophenol	ND	0.0510	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Nitrophenol	ND	0.0510	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dibenzofuran	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2,4-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Diethylphthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Chlorophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Fluorene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
2-Methyl-4,6-dinitrophenol	ND	0.0510	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
N-Nitrosodiphenylamine	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
4-Bromophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Hexachlorobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Pentachlorophenol	ND	0.0510	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Phenanthrene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Anthracene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Di-n-butylphthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Fluoranthene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Pyrene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Azobenzene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Butylbenzylphthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
3,3-Dichlorobenzidine	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092878002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09SVL002 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Benzo(a)Anthracene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Chrysene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
bis(2-Ethylhexyl)phthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
di-n-Octylphthalate	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[b]Fluoranthene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[k]fluoranthene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[a]pyrene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Indeno[1,2,3-c,d] pyrene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Dibenzo[a,h]anthracene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Benzo[g,h,i]perylene	ND	0.0102	mg/L	EPA 625	A		06/26/09	06/27/09	JDH
Surrogates									
2-Fluorophenol <surr>	56		%	EPA 625	A	21-88	06/26/09	06/27/09	JDH
Phenol-d6 <surr>	69.5		%	EPA 625	A	28-97	06/26/09	06/27/09	JDH
Nitrobenzene-d5 <surr>	71.1		%	EPA 625	A	41-110	06/26/09	06/27/09	JDH
2-Fluorobiphenyl <surr>	84.2		%	EPA 625	A	50-110	06/26/09	06/27/09	JDH
2,4,6-Tribromophenol <surr>	104		%	EPA 625	A	45-124	06/26/09	06/27/09	JDH
Terphenyl-d14 <surr>	69.1		%	EPA 625	A	52-135	06/26/09	06/27/09	JDH

SGS Ref.#	1092878003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09O&G001 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

1664A - Sample was analyzed outside of holding time.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Oil & Grease HEM	66.1	4.23	mg/L	EPA 1664A	A		07/23/09	07/23/09	RTS

SGS Ref.#	1092878004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09O&G002 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

1664A - Sample was analyzed outside of holding time.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Oil & Grease HEM	37.6	4.19	mg/L	EPA 1664A	A		07/23/09	07/23/09	RTS

SGS Ref.#	1092878038		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09TCN009 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1092878039		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09TCN010 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1092878040		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09MET001 Influent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		06/30/09	06/30/09	RTS
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Chromium	3.25	2.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Copper	65.5	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Lead	5.38	0.200	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Nickel	4.98	2.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Silver	1.85	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Zinc	158	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB

SGS Ref.#	1092878041		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 7:00
Client Sample ID	MOA09MET002 Effluent	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		06/30/09	06/30/09	RTS
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Copper	48.9	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Lead	2.35	0.200	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Nickel	3.62	2.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Silver	1.56	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB
Zinc	97.4	5.00	ug/L	EP200.8	A		07/27/09	07/29/09	NRB

SGS Ref.#	904027	Method Blank	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21047
Project Name/#	516.01			**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)			**Date**	06/26/2009

QC results affect the following production samples:

1092878001, 1092878002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	904027 Method Blank	**Printed Date/Time**	07/30/2009 18:45	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	XXX21047
Project Name/#	516.01		**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)		**Date**	06/26/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
N-Nitrosodimethylamine	ND	0.0100	0.00310	mg/L	06/27/09
Aniline	ND	0.0500	0.0150	mg/L	06/27/09
Phenol	ND	0.0100	0.00310	mg/L	06/27/09
Bis(2-Chloroethyl)ether	ND	0.0100	0.00310	mg/L	06/27/09
2-Chlorophenol	ND	0.0100	0.00310	mg/L	06/27/09
1,3-Dichlorobenzene	ND	0.0100	0.00310	mg/L	06/27/09
1,4-Dichlorobenzene	ND	0.0100	0.00310	mg/L	06/27/09
Benzyl alcohol	ND	0.0100	0.00310	mg/L	06/27/09
1,2-Dichlorobenzene	ND	0.0100	0.00310	mg/L	06/27/09
2-Methylphenol (o-Cresol)	ND	0.0100	0.00310	mg/L	06/27/09
Bis(2chloro1methylethyl)Ether	ND	0.0100	0.00310	mg/L	06/27/09
3&4-Methylphenol (p&m-Cresol)	ND	0.0200	0.00620	mg/L	06/27/09
N-Nitroso-di-n-propylamine	ND	0.0100	0.00310	mg/L	06/27/09
Hexachloroethane	ND	0.0100	0.00310	mg/L	06/27/09
Nitrobenzene	ND	0.0100	0.00310	mg/L	06/27/09
Isophorone	ND	0.0100	0.00310	mg/L	06/27/09
2-Nitrophenol	ND	0.0100	0.00310	mg/L	06/27/09
2,4-Dimethylphenol	ND	0.0100	0.00310	mg/L	06/27/09
Benzoic acid	ND	0.0500	0.0250	mg/L	06/27/09
Bis(2-Chloroethoxy)methane	ND	0.0100	0.00310	mg/L	06/27/09
1,2,4-Trichlorobenzene	ND	0.0100	0.00310	mg/L	06/27/09
Naphthalene	ND	0.0100	0.00310	mg/L	06/27/09
4-Chloroaniline	ND	0.0100	0.00310	mg/L	06/27/09
Hexachlorobutadiene	ND	0.0100	0.00310	mg/L	06/27/09
4-Chloro-3-methylphenol	ND	0.0100	0.00310	mg/L	06/27/09
2,4-Dichlorophenol	ND	0.0100	0.00310	mg/L	06/27/09
2-Methylnaphthalene	ND	0.0100	0.00310	mg/L	06/27/09
Hexachlorocyclopentadiene	ND	0.0300	0.00940	mg/L	06/27/09
2,4,6-Trichlorophenol	ND	0.0100	0.00310	mg/L	06/27/09
2,4,5-Trichlorophenol	ND	0.0100	0.00310	mg/L	06/27/09
2-Chloronaphthalene	ND	0.0100	0.00310	mg/L	06/27/09
2-Nitroaniline	ND	0.0100	0.00310	mg/L	06/27/09
Dimethylphthalate	ND	0.0100	0.00310	mg/L	06/27/09
Acenaphthylene	ND	0.0100	0.00310	mg/L	06/27/09
2,6-Dinitrotoluene	ND	0.0100	0.00310	mg/L	06/27/09
3-Nitroaniline	ND	0.0100	0.00310	mg/L	06/27/09
Acenaphthene	ND	0.0100	0.00310	mg/L	06/27/09
2,4-Dinitrophenol	ND	0.0500	0.0150	mg/L	06/27/09
4-Nitrophenol	ND	0.0500	0.0150	mg/L	06/27/09

SGS Ref.#	904027 Method Blank		**Printed Date/Time**	07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	XXX21047
Project Name/#	516.01		**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)		**Date**	06/26/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
Dibenzofuran	ND	0.0100	0.00310	mg/L	06/27/09
2,4-Dinitrotoluene	ND	0.0100	0.00310	mg/L	06/27/09
Diethylphthalate	ND	0.0100	0.00310	mg/L	06/27/09
4-Chlorophenyl-phenylether	ND	0.0100	0.00310	mg/L	06/27/09
Fluorene	ND	0.0100	0.00310	mg/L	06/27/09
4-Nitroaniline	ND	0.0100	0.00310	mg/L	06/27/09
2-Methyl-4,6-dinitrophenol	ND	0.0500	0.0150	mg/L	06/27/09
N-Nitrosodiphenylamine	ND	0.0100	0.00310	mg/L	06/27/09
4-Bromophenyl-phenylether	ND	0.0100	0.00310	mg/L	06/27/09
Hexachlorobenzene	ND	0.0100	0.00310	mg/L	06/27/09
Pentachlorophenol	ND	0.0500	0.0150	mg/L	06/27/09
Phenanthrene	ND	0.0100	0.00310	mg/L	06/27/09
Anthracene	ND	0.0100	0.00310	mg/L	06/27/09
Di-n-butylphthalate	ND	0.0100	0.00310	mg/L	06/27/09
Fluoranthene	ND	0.0100	0.00310	mg/L	06/27/09
Pyrene	ND	0.0100	0.00310	mg/L	06/27/09
Azobenzene	ND	0.0100	0.00310	mg/L	06/27/09
Butylbenzylphthalate	ND	0.0100	0.00310	mg/L	06/27/09
3,3-Dichlorobenzidine	ND	0.0100	0.00310	mg/L	06/27/09
Benzo(a)Anthracene	ND	0.0100	0.00310	mg/L	06/27/09
Chrysene	ND	0.0100	0.00310	mg/L	06/27/09
bis(2-Ethylhexyl)phthalate	ND	0.0100	0.00310	mg/L	06/27/09
di-n-Octylphthalate	ND	0.0100	0.00310	mg/L	06/27/09
Benzo[b]Fluoranthene	ND	0.0100	0.00310	mg/L	06/27/09
Benzo[k]fluoranthene	ND	0.0100	0.00310	mg/L	06/27/09
Benzo[a]pyrene	ND	0.0100	0.00310	mg/L	06/27/09
Indeno[1,2,3-c,d] pyrene	ND	0.0100	0.00310	mg/L	06/27/09
Dibenzo[a,h]anthracene	ND	0.0100	0.00310	mg/L	06/27/09
Benzo[g,h,i]perylene	ND	0.0100	0.00310	mg/L	06/27/09
Surrogates					
2-Fluorophenol <surr>	51.1	21-88		%	06/27/09
Phenol-d6 <surr>	61.4	28-97		%	06/27/09
Nitrobenzene-d5 <surr>	64.2	41-110		%	06/27/09
2-Fluorobiphenyl <surr>	65.7	50-110		%	06/27/09
2,4,6-Tribromophenol <surr>	71.1	45-124		%	06/27/09
Terphenyl-d14 <surr>	63.5	52-135		%	06/27/09

SGS Ref.#	904027 Method Blank	**Printed Date/Time**	07/30/2009 18:45	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	XXX21047
Project Name/#	516.01		**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)		**Date**	06/26/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

Batch	XMS4951
Method	EPA 625
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	904164	Method Blank	**Printed Date/Time**	07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.01			**Method**
Matrix	Water (Surface, Eff., Ground)			**Date**

QC results affect the following production samples:

1092878013, 1092878014, 1092878015, 1092878016, 1092878017, 1092878018, 1092878019, 1092878020, 1092878021, 1092878022, 1092878023, 1092878024, 1092878025, 1092878026, 1092878027, 1092878028, 1092878029, 1092878030, 1092878031, 1092878032, 1092878042, 1092878043

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Color	ND	5.00	5.00	PCU	06/24/09
Batch WAT7639					
Method SM20 2120B					
Instrument					

SGS Ref.#	904870	Method Blank	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21855
Project Name/#	516.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	06/30/2009

QC results affect the following production samples:

1092878040, 1092878041

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	06/30/09
Batch MCV4226					
Method EP245.1					
Instrument PSA Millennium mercury AA					

SGS Ref.#	905604	Method Blank	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7298
Project Name/#	516.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	07/01/2009

QC results affect the following production samples:

1092878038, 1092878039

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	ND	0.0050	0.0015	mg/L	07/02/09

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	910712	Method Blank	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	POGX2275
Project Name/#	516.01			**Method**	EXT_1664OG
Matrix	Water (Surface, Eff., Ground)			**Date**	07/23/2009

QC results affect the following production samples:

1092878003, 1092878004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Oil & Grease HEM	2.50 J	4.00	1.20	mg/L	07/23/09
Batch POG2455					
Method EPA 1664A					
Instrument					

SGS Ref.#	911443 Method Blank	**Printed Date/Time**	07/30/2009 18:45	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	MXX21956
Project Name/#	516.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	07/27/2009

QC results affect the following production samples:

1092878040, 1092878041

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	07/29/09
Arsenic	ND	5.00	2.50	ug/L	07/29/09
Beryllium	ND	0.400	0.130	ug/L	07/29/09
Cadmium	ND	0.500	0.150	ug/L	07/29/09
Chromium	ND	2.00	0.620	ug/L	07/29/09
Copper	ND	1.00	0.310	ug/L	07/29/09
Lead	ND	0.200	0.0620	ug/L	07/29/09
Molybdenum	ND	10.0	3.10	ug/L	07/29/09
Nickel	ND	2.00	0.620	ug/L	07/29/09
Selenium	ND	5.00	1.50	ug/L	07/29/09
Silver	ND	1.00	0.310	ug/L	07/29/09
Thallium	ND	1.00	0.310	ug/L	07/29/09
Zinc	ND	5.00	2.50	ug/L	07/29/09

Batch MMS5999
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905607	Duplicate	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7298
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1092843001			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878038, 1092878039

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	ND	mg/L	0	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905609	Duplicate	**Printed Date/Time**		07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7298
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1092987002			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878038, 1092878039

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	ND	mg/L	0	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	903976	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	516.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878033, 1092878034, 1092878035, 1092878036, 1092878044

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color	LCS	14.0	*					06/24/2009

Batch	WAT7635
Method	SM20 2120B
Instrument	

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep** **Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878001, 1092878002

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
N-Nitrosodimethylamine	LCS	0.0740	74	(27-100)			0.1 mg/L	06/27/2009
	LCSD	0.0911	91		21 *	(< 20)	0.1 mg/L	06/27/2009
Aniline	LCS	0.0516	52	(21-119)			0.1 mg/L	06/27/2009
	LCSD	0.0838	84		48 *	(< 20)	0.1 mg/L	06/27/2009
Phenol	LCS	0.0699	70	(26-92)			0.1 mg/L	06/27/2009
	LCSD	0.0812	81		15	(< 20)	0.1 mg/L	06/27/2009
Bis(2-Chloroethyl)ether	LCS	0.0766	77	(37-100)			0.1 mg/L	06/27/2009
	LCSD	0.0825	83		8	(< 20)	0.1 mg/L	06/27/2009
2-Chlorophenol	LCS	0.0647	65	(37-97)			0.1 mg/L	06/27/2009
	LCSD	0.0710	71		9	(< 20)	0.1 mg/L	06/27/2009
1,3-Dichlorobenzene	LCS	0.0672	67	(32-98)			0.1 mg/L	06/27/2009
	LCSD	0.0733	73		9	(< 20)	0.1 mg/L	06/27/2009
1,4-Dichlorobenzene	LCS	0.0662	66	(32-97)			0.1 mg/L	06/27/2009
	LCSD	0.0718	72		8	(< 20)	0.1 mg/L	06/27/2009
Benzyl alcohol	LCS	0.0826	83	(38-110)			0.1 mg/L	06/27/2009
	LCSD	0.0917	92		10	(< 20)	0.1 mg/L	06/27/2009
1,2-Dichlorobenzene	LCS	0.0693	69	(35-99)			0.1 mg/L	06/27/2009
	LCSD	0.0742	74		7	(< 20)	0.1 mg/L	06/27/2009
2-Methylphenol (o-Cresol)	LCS	0.0708	71	(38-99)			0.1 mg/L	06/27/2009
	LCSD	0.0778	78		9	(< 20)	0.1 mg/L	06/27/2009
Bis(2chloro1methylethyl)Ether	LCS	0.0968	97	(36-103)			0.1 mg/L	06/27/2009
	LCSD	0.106	106 *		9	(< 20)	0.1 mg/L	06/27/2009
3&4-Methylphenol (p&m-Cresol)	LCS	0.104	74	(38-105)			0.14 mg/L	06/27/2009
	LCSD	0.117	83		12	(< 20)	0.14 mg/L	06/27/2009
N-Nitroso-di-n-propylamine	LCS	0.0712	71	(42-108)			0.1 mg/L	06/27/2009
	LCSD	0.0780	78		9	(< 20)	0.1 mg/L	06/27/2009
Hexachloroethane	LCS	0.0647	65	(30-95)			0.1 mg/L	06/27/2009
	LCSD	0.0717	72		10	(< 20)	0.1 mg/L	06/27/2009

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Nitrobenzene	LCS	0.0827	83	(45-105)			0.1 mg/L	06/27/2009
	LCSD	0.0885	89		7	(< 20)	0.1 mg/L	06/27/2009
Isophorone	LCS	0.0890	89	(50-110)			0.1 mg/L	06/27/2009
	LCSD	0.0943	94		6	(< 20)	0.1 mg/L	06/27/2009
2-Nitrophenol	LCS	0.0780	78	(40-109)			0.1 mg/L	06/27/2009
	LCSD	0.0836	84		7	(< 20)	0.1 mg/L	06/27/2009
2,4-Dimethylphenol	LCS	0.0669	67	(32-86)			0.1 mg/L	06/27/2009
	LCSD	0.0718	72		7	(< 20)	0.1 mg/L	06/27/2009
Benzoic acid	LCS	0.130	93	(20-101)			0.14 mg/L	06/27/2009
	LCSD	0.142	101		9	(< 20)	0.14 mg/L	06/27/2009
Bis(2-Chloroethoxy)methane	LCS	0.0870	87	(46-105)			0.1 mg/L	06/27/2009
	LCSD	0.0934	93		7	(< 20)	0.1 mg/L	06/27/2009
1,2,4-Trichlorobenzene	LCS	0.0874	87	(37-104)			0.1 mg/L	06/27/2009
	LCSD	0.0922	92		5	(< 20)	0.1 mg/L	06/27/2009
Naphthalene	LCS	0.0744	74	(45-100)			0.1 mg/L	06/27/2009
	LCSD	0.0793	79		6	(< 20)	0.1 mg/L	06/27/2009
4-Chloroaniline	LCS	0.0725	73	(37-110)			0.1 mg/L	06/27/2009
	LCSD	0.0835	84		14	(< 20)	0.1 mg/L	06/27/2009
Hexachlorobutadiene	LCS	0.0935	94	(38-105)			0.1 mg/L	06/27/2009
	LCSD	0.101	101		7	(< 20)	0.1 mg/L	06/27/2009
4-Chloro-3-methylphenol	LCS	0.0920	92	(50-110)			0.1 mg/L	06/27/2009
	LCSD	0.0955	96		4	(< 20)	0.1 mg/L	06/27/2009
2,4-Dichlorophenol	LCS	0.0866	87	(50-105)			0.1 mg/L	06/27/2009
	LCSD	0.0917	92		6	(< 20)	0.1 mg/L	06/27/2009
2-Methylnaphthalene	LCS	0.0833	83	(46-105)			0.1 mg/L	06/27/2009
	LCSD	0.0877	88		5	(< 20)	0.1 mg/L	06/27/2009
Hexachlorocyclopentadiene	LCS	0.0421	42	(10-58)			0.1 mg/L	06/27/2009

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
	LCSD	0.0468	47		10	(< 20)	0.1 mg/L	06/27/2009
2,4,6-Trichlorophenol	LCS	0.104	104	(50-115)			0.1 mg/L	06/27/2009
	LCSD	0.104	104		0	(< 20)	0.1 mg/L	06/27/2009
2,4,5-Trichlorophenol	LCS	0.102	102	(50-110)			0.1 mg/L	06/27/2009
	LCSD	0.104	104		2	(< 20)	0.1 mg/L	06/27/2009
2-Chloronaphthalene	LCS	0.0764	76	(50-105)			0.1 mg/L	06/27/2009
	LCSD	0.0784	78		3	(< 20)	0.1 mg/L	06/27/2009
2-Nitroaniline	LCS	0.0862	86	(54-115)			0.1 mg/L	06/27/2009
	LCSD	0.0860	86		0	(< 20)	0.1 mg/L	06/27/2009
Dimethylphthalate	LCS	0.0899	90	(36-125)			0.1 mg/L	06/27/2009
	LCSD	0.0905	91		1	(< 20)	0.1 mg/L	06/27/2009
Acenaphthylene	LCS	0.0811	81	(53-105)			0.1 mg/L	06/27/2009
	LCSD	0.0818	82		1	(< 20)	0.1 mg/L	06/27/2009
2,6-Dinitrotoluene	LCS	0.0985	99	(55-115)			0.1 mg/L	06/27/2009
	LCSD	0.0974	97		1	(< 20)	0.1 mg/L	06/27/2009
3-Nitroaniline	LCS	0.0868	87	(54-125)			0.1 mg/L	06/27/2009
	LCSD	0.0870	87		0	(< 20)	0.1 mg/L	06/27/2009
Acenaphthene	LCS	0.0843	84	(53-110)			0.1 mg/L	06/27/2009
	LCSD	0.0848	85		1	(< 20)	0.1 mg/L	06/27/2009
2,4-Dinitrophenol	LCS	0.199	111	(29-130)			0.18 mg/L	06/27/2009
	LCSD	0.202	112		2	(< 20)	0.18 mg/L	06/27/2009
4-Nitrophenol	LCS	0.144	103	(42-112)			0.14 mg/L	06/27/2009
	LCSD	0.149	106		4	(< 20)	0.14 mg/L	06/27/2009
Dibenzofuran	LCS	0.0896	90	(55-105)			0.1 mg/L	06/27/2009
	LCSD	0.0895	90		0	(< 20)	0.1 mg/L	06/27/2009
2,4-Dinitrotoluene	LCS	0.0974	97	(55-115)			0.1 mg/L	06/27/2009
	LCSD	0.0974	97		0	(< 20)	0.1 mg/L	06/27/2009

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Diethylphthalate	LCS	0.0859	86	(51-120)			0.1 mg/L	06/27/2009
	LCSD	0.0852	85		1	(< 20)	0.1 mg/L	06/27/2009
4-Chlorophenyl-phenylether	LCS	0.103	103	(50-110)			0.1 mg/L	06/27/2009
	LCSD	0.104	104		0	(< 20)	0.1 mg/L	06/27/2009
Fluorene	LCS	0.0914	91	(56-110)			0.1 mg/L	06/27/2009
	LCSD	0.0911	91		0	(< 20)	0.1 mg/L	06/27/2009
4-Nitroaniline	LCS	0.0878	88	(52-120)			0.1 mg/L	06/27/2009
	LCSD	0.0879	88		0	(< 20)	0.1 mg/L	06/27/2009
2-Methyl-4,6-dinitrophenol	LCS	0.179	99	(43-130)			0.18 mg/L	06/27/2009
	LCSD	0.180	100		1	(< 20)	0.18 mg/L	06/27/2009
N-Nitrosodiphenylamine	LCS	0.0834	83	(53-110)			0.1 mg/L	06/27/2009
	LCSD	0.0821	82		2	(< 20)	0.1 mg/L	06/27/2009
4-Bromophenyl-phenylether	LCS	0.0852	85	(52-110)			0.1 mg/L	06/27/2009
	LCSD	0.0847	85		1	(< 20)	0.1 mg/L	06/27/2009
Hexachlorobenzene	LCS	0.0873	87	(54-110)			0.1 mg/L	06/27/2009
	LCSD	0.0872	87		0	(< 20)	0.1 mg/L	06/27/2009
Pentachlorophenol	LCS	0.131	94	(51-115)			0.14 mg/L	06/27/2009
	LCSD	0.129	92		2	(< 20)	0.14 mg/L	06/27/2009
Phenanthrene	LCS	0.0890	89	(58-115)			0.1 mg/L	06/27/2009
	LCSD	0.0879	88		1	(< 20)	0.1 mg/L	06/27/2009
Anthracene	LCS	0.0896	90	(59-110)			0.1 mg/L	06/27/2009
	LCSD	0.0890	89		1	(< 20)	0.1 mg/L	06/27/2009
Di-n-butylphthalate	LCS	0.0772	77	(55-115)			0.1 mg/L	06/27/2009
	LCSD	0.0775	78		0	(< 20)	0.1 mg/L	06/27/2009
Fluoranthene	LCS	0.0961	96	(59-115)			0.1 mg/L	06/27/2009
	LCSD	0.0961	96		0	(< 20)	0.1 mg/L	06/27/2009
Pyrene	LCS	0.0882	88	(62-128)			0.1 mg/L	06/27/2009
	LCSD	0.0862	86		2	(< 20)	0.1 mg/L	06/27/2009

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Azobenzene	LCS	0.0837	84	(52-124)			0.1 mg/L	06/27/2009
	LCSD	0.0846	85		1	(< 20)	0.1 mg/L	06/27/2009
Butylbenzylphthalate	LCS	0.0741	74	(58-115)			0.1 mg/L	06/27/2009
	LCSD	0.0733	73		1	(< 20)	0.1 mg/L	06/27/2009
3,3-Dichlorobenzidine	LCS	0.0874	87	(53-110)			0.1 mg/L	06/27/2009
	LCSD	0.0833	83		5	(< 20)	0.1 mg/L	06/27/2009
Benzo(a)Anthracene	LCS	0.0842	84	(64-110)			0.1 mg/L	06/27/2009
	LCSD	0.0833	83		1	(< 20)	0.1 mg/L	06/27/2009
Chrysene	LCS	0.0804	80	(63-110)			0.1 mg/L	06/27/2009
	LCSD	0.0798	80		1	(< 20)	0.1 mg/L	06/27/2009
bis(2-Ethylhexyl)phthalate	LCS	0.0695	70	(59-125)			0.1 mg/L	06/27/2009
	LCSD	0.0707	71		2	(< 20)	0.1 mg/L	06/27/2009
di-n-Octylphthalate	LCS	0.0631	63	(52-131)			0.1 mg/L	06/27/2009
	LCSD	0.0633	63		0	(< 20)	0.1 mg/L	06/27/2009
Benzo[b]Fluoranthene	LCS	0.0844	84	(57-120)			0.1 mg/L	06/27/2009
	LCSD	0.0857	86		2	(< 20)	0.1 mg/L	06/27/2009
Benzo[k]fluoranthene	LCS	0.0842	84	(58-124)			0.1 mg/L	06/27/2009
	LCSD	0.0850	85		1	(< 20)	0.1 mg/L	06/27/2009
Benzo[a]pyrene	LCS	0.0920	92	(58-110)			0.1 mg/L	06/27/2009
	LCSD	0.0918	92		0	(< 20)	0.1 mg/L	06/27/2009
Indeno[1,2,3-c,d] pyrene	LCS	0.0848	85	(51-125)			0.1 mg/L	06/27/2009
	LCSD	0.0861	86		2	(< 20)	0.1 mg/L	06/27/2009
Dibenzo[a,h]anthracene	LCS	0.0846	85	(53-125)			0.1 mg/L	06/27/2009
	LCSD	0.0860	86		2	(< 20)	0.1 mg/L	06/27/2009
Benzo[g,h,i]perylene	LCS	0.0822	82	(48-123)			0.1 mg/L	06/27/2009
	LCSD	0.0830	83		1	(< 20)	0.1 mg/L	06/27/2009

Surrogates

SGS Ref.#	904028	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	904029	Lab Control Sample Duplicate	**Prep Batch**	XXX21047	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS							
2-Fluorophenol <surr>	LCS	55	(21-88)				06/27/2009
	LCSD	59		7			06/27/2009
Phenol-d6 <surr>	LCS	66	(28-97)				06/27/2009
	LCSD	75		13			06/27/2009
Nitrobenzene-d5 <surr>	LCS	73	(41-110)				06/27/2009
	LCSD	77		6			06/27/2009
2-Fluorobiphenyl <surr>	LCS	74	(50-110)				06/27/2009
	LCSD	76		3			06/27/2009
2,4,6-Tribromophenol <surr>	LCS	74	(45-124)				06/27/2009
	LCSD	75		1			06/27/2009
Terphenyl-d14 <surr>	LCS	73	(52-135)				06/27/2009
	LCSD	73		0			06/27/2009

Batch	XMS4951
Method	EPA 625
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	904165	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	516.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878013, 1092878014, 1092878015, 1092878016, 1092878017, 1092878018, 1092878019, 1092878020, 1092878021, 1092878022, 1092878023, 1092878024, 1092878025, 1092878026, 1092878027, 1092878028, 1092878029, 1092878030, 1092878031, 1092878032, 1092878042, 1092878043

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color	LCS	14.0	*					06/24/2009

Batch	WAT7639
Method	SM20 2120B
Instrument	

SGS Ref.#	904871	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep **Batch**	MXX21855	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	06/30/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.46	111	(85-115)			4 ug/L	06/30/2009

Batch	MCV4226
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	904875	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep **Batch**	MXX21855	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	06/30/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.43	111	(85-115)			4 ug/L	06/30/2009

Batch	MCV4226
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	905605	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
	905606	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7298	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.01		**Date**	07/01/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878038, 1092878039

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.057	115	(75-125)			0.05 mg/L	07/02/2009
	LCSD	0.051	102		12	(< 25)	0.05 mg/L	07/02/2009

Batch	WDA1663
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	910713	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep **Batch**	POGX2275	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT_1664OG	
Project Name/#	516.01		**Date**	07/23/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878003, 1092878004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Oil & Grease HEM	LCS	40.7	102	(78-114)			40 mg/L	07/23/2009

Batch	POG2455
Method	EPA 1664A
Instrument	

SGS Ref.#	911444	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep **Batch**	MXX21956	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	07/27/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	975	98	(85-115)			1000 ug/L	07/29/2009
Arsenic	LCS	1040	104	(85-115)			1000 ug/L	07/29/2009
Beryllium	LCS	111	111	(85-115)			100 ug/L	07/29/2009
Cadmium	LCS	107	107	(85-115)			100 ug/L	07/29/2009
Chromium	LCS	430	107	(85-115)			400 ug/L	07/29/2009
Copper	LCS	1060	106	(85-115)			1000 ug/L	07/29/2009
Lead	LCS	903	90	(85-115)			1000 ug/L	07/29/2009
Molybdenum	LCS	405	101	(85-115)			400 ug/L	07/29/2009
Nickel	LCS	1030	103	(85-115)			1000 ug/L	07/29/2009
Selenium	LCS	1060	106	(85-115)			1000 ug/L	07/29/2009
Silver	LCS	105	105	(85-115)			100 ug/L	07/29/2009
Thallium	LCS	9.96	100	(85-115)			10 ug/L	07/29/2009
Zinc	LCS	1060	106	(85-115)			1000 ug/L	07/29/2009

Batch	MMS5999
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	904872	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
			Prep	**Batch**	MXX21855
				Method	Digestion Mercury (W)
				Date	06/30/2009
Original	1092878040				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	7.92	99	(85-115)			8.00	ug/L	06/30/2009

Batch MCV4226
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	904876	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
			Prep	**Batch**	MXX21855
				Method	Digestion Mercury (W)
				Date	06/30/2009
Original	1092976003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8.51	106	(85-115)			8.00	ug/L	06/30/2009

Batch MCV4226
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	904929	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
	904930	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21855
				Method	Digestion Mercury (W)
				Date	06/30/2009
Original	1092750001				
Matrix	Solid/Soil (Wet Weight)				

QC results affect the following production samples:

1092878040, 1092878041

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	84.8	106	(85-115)			80.0	ug/L	06/30/2009
		MSD		83.4	104		2	(< 15)	80.0	ug/L	06/30/2009

Batch MCV4226
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	905608	Matrix Spike	**Printed Date/Time**	07/30/2009	18:45
			Prep **Batch**	WXX7298	
			Method	Cyanide Distillation Kone Lab	
			Date	07/01/2009	
Original	1092843001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878038, 1092878039

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.057	114	(75-125)			0.050	mg/L	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905610	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
			Prep	**Batch**	WXX7298
				Method	Cyanide Distillation Kone Lab
				Date	07/01/2009
Original	1092987002				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878038, 1092878039

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.052	104	(75-125)			0.050	mg/L	07/02/2009

Batch	WDA1663
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	910714	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
			Prep	**Batch**	POGX2275
				Method	Extraction for EPA 1664 O&G
				Date	07/23/2009
Original	1093947001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878003, 1092878004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Oil & Grease HEM	MS	4.84	43.6	91	(78-114)			42.6	mg/L	07/23/2009

Batch POG2455
Method EPA 1664A
Instrument

SGS Ref.#	911447	Matrix Spike	**Printed Date/Time**		07/30/2009 18:45
			Prep	**Batch**	MXX21956
				Method	DW Digest for Metals on ICP-M
				Date	07/27/2009
Original	1093538001				
Matrix	Drinking Water				

QC results affect the following production samples:
1092878040, 1092878041

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	ND	1010	101	(70-130)			1000	ug/L	07/29/2009
Arsenic	MS	ND	1090	109	(70-130)			1000	ug/L	07/29/2009
Cadmium	MS	ND	109	109	(70-130)			100	ug/L	07/29/2009
Chromium	MS	ND	445	111	(70-130)			400	ug/L	07/29/2009
Copper	MS	403	1450	105	(70-130)			1000	ug/L	07/29/2009
Lead	MS	1.65	883	88	(70-130)			1000	ug/L	07/29/2009
Nickel	MS	ND	1040	104	(70-130)			1000	ug/L	07/29/2009
Selenium	MS	ND	1090	109	(70-130)			1000	ug/L	07/29/2009
Silver	MS	ND	105	105	(70-130)			100	ug/L	07/29/2009
Thallium	MS	ND	9.58	96	(70-130)			10.0	ug/L	07/29/2009
Zinc	MS	40.2	1090	105	(70-130)			1000	ug/L	07/29/2009

Batch MMS5999
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 625. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09SVL001	Influent	1 of 2 ~~8~~	6/23-6/24	0700		① A
MOA09SVL002	Effluent	~~8~~ 2	↓	0700		② A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/09 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

Not enough volume to sample both of 2l requested for SVL001

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09- 1006	KLI Proj. #: 516.01

ANALYSIS TYPE: Oil & Grease: EPA 1664

MATRIX: Water	Preservative: H2SO4, 4°C	Type of Container: 1-L Amber

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09O&G001	Influent	2 of ~~1~~ 2	6/23/9	0700		(3) A,B
MOA09O&G002	Effluent	2 of ~~1~~ 2	6/23/9	0700		(4) A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Pesticides: EPA 608 plus Mirex Detection limits 0.05 - 1.0 µg/L

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES001	Influent-1	1 of 2 1	6/23/09	0700		5 A
MOA09PES002	Influent-2	1 of 2 1	6/24/09	↓		6 A
MOA09PES003	Effluent	~~2 of 2~~ ~~3 of 4~~ 4 of 4	↓	↓		7 A, B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

- not enough volume to fill All containers PE5601

PE5602

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09DXN001	Influent	2	6/23-6/24	0700		8 A, B
MOA09DXN002	Effluent	2	↓	↓		9 A, B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/9 1030	hand		6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				6/24/09 1300

SAMPLED BY (NAME/SIGNATURE):

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09PST001	Influent-1 ✓	~~1~~ 3 of 4	6/23-6/24	700		(10) A-C
✓ MOA09PST002	Influent-2 ✓	~~1~~ 3 of 4	↓	↓		(11) A-C
✓ MOA09PST003	Effluent ✓	~~3~~ 4 of 4				(12) A-D

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	~~TRANSPORTED BY:~~	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\PEST_DRY09COC.wpd

-only enough volume to fill 3 of 4l containers for sample #'s

ASTOO1

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	**Preservative:** NaOH, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 500 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN009	Influent	1	6/23/9	0700		38 A
MOA09TCN010	Effluent	1	6/23/9	0700		39 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/9 1030	hand		6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24 1300	Hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\Pretreatment_CN_Dry_09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, I 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** ~~1L~~ 250 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET001	Influent	1	06/23/09	0700		40 A
MOA09MET002	Effluent	1	↓	↓		41 A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/09 1030	hand	G Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24 1300			
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

1092878

SGS

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
✓			**Any problems (ID, cond'n, HT, etc)? Explain:** SEE NOTES BELOW
		✓	If this is for PWS, provide **PWSID:**
		✓	Payment received: $ by Check or Credit Card
	✓		Will courier charges apply?
✓			Data package required? (Level: 1 / 2 / 3 / 4)
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

Notes:

TAT (circle one): Standard -or- Rush

Received Date: 6-24-09

Received Time: 1300

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	13.1 °C	#7
2	4.3 °C	↓
3	10.8 °C	
4	8.2 °C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (√ *if applicable*)
- Extra Sample Volume?
- Limited Sample Volume?
- Multi-Incremental Samples?
- Lab-filtered for dissolved
- ✓ Ref Lab required for DIOXIN
- Foreign Soil? ASBESTOS

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.*
		If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM):

Individual contacted:

Via: Phone / Fax / E-mail *(circle one)*

Date/Time: In Person 6/25 01:40

Reason for contact: Dissolved Metals Confirmed

Use MOA09S1001 (0875-10)
MOA09S1002 (0875-11)
HG 6-27-09

Change Order Required? Yes / No

Notes: Samples Submitted For Total and Diss Metals are preserved with HNO_3 Cannot do Diss Analysis. COC STATES 2 1 Liter HNO3s Submitted For Asbestos Analysis, only ONE (EFFLUENT) RECEIVED AT LAB. Samples Submitted For Oil & Grease Analysis RECEIVED IN 1 Liter AG JARS WITH HCL STICKERS on container, Lable states preserved with H_2SO_4, COC CONFIRMS H_2SO_4 Dissolved Not on this WO. HG 6-25-09
Received on another WO. HG 6-26-09

Completed by (sign): [signature] **(print):** JAMES MOCGHTY

Login proof: Self-check completed ✓ **Peer-reviewer's Initials** Ale

Form # F004r20 revised 05/05/2009

SGS

1092878

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1	A	1	625			1							✓							✓									
2	A,B	1	625			2							✓							✓									✓
3,4	A,B	1	O,G 1664			4							✓								✓								
5,6	A	1	PEST EPA 608			2							✓							✓									
7	A,B	1	PEST EPA608			2							✓							✓									✓
8,9	A,B	1	DIOXIN 8280			4							✓							✓									✓
10,11	A-C	1	PEST EPA 614			6							✓							✓									
12	A-D	1	PEST EPA 614			4							✓							✓									
			Bottle Totals																										

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

COC STATES EFFOUENT SAMPLES CONTAIN ASCORBIC ACID.

Completed by: [signature] Date: 6-24-09

Form # F004r20 revised 05/05/2009

SGS

1092878

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
13-36	A	1	Color						24							✓				✓									
37	A	1	Asbestos			1									✓					✓									
38,39	A	1	CN							2						✓										✓			
40,41	A	1	TOTAL METALS					2							✓							✓							
42	A	1	COLOR	Dup					5	J	A	13A																	
43	A	1	COLOR	Dup					↓	↓	↓	23A																	
44	A	1	COLOR	Dup					↓	↓	↓	33A																	
45	A	1	Dissolved. (Influent)					1																					
			Bottle Totals			1		2	24	2																			

6-25-09

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 6·24·09

Form # F004r20 revised 05/05/2009

SAMPLES FOR ASBESTOS ANALYSIS: RECEIVED 1 1 Liter HDPE FOR EFFLUENT ONLY.
NO INFLUENT CONTAINER.

SAMPLES FOR METALS ANALYSIS TOTAL AND DISSOLVED CANNOT BE SPLIT
TO DO A FILTER BECAUSE SAMPLES ARE PRESERVED.
(POUR OFFS?)

PEST ~~DIOXIN~~ METHOD 608 / 614 ?

1092878

1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

July 28, 2009 Analytical Report for Service Request No: K0905766

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

RE: KLI-AWWU/KLI#516.01

Dear Forest:

Enclosed are the results of the samples submitted to our laboratory on June 26, 2009. For your reference, these analyses have been assigned our service request number K0905766.

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 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Pradeep Divvela
Project Chemist

PD/rh

Page 1 of 22

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
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 compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
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 has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

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)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	SGS Environmental Services, Inc.	**Service Request No.:**	K0905766
Project:	KLI-AWWU	**Date Received:**	06/26/09
Sample Matrix:	Water		

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 Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Six water samples were received for analysis at Columbia Analytical Services on 06/26/09. 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.

Organochlorine Pesticides by EPA Method 8081A

Calibration Verification Exceptions:
The primary evaluation criterion was exceeded for Toxaphene and Chlordane in Continuing Calibration Verification (CCV) 0707F004; Chlordane in 0708F032. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

Lab Control Sample Exceptions:
The upper control criterion was exceeded for a few analytes in Laboratory Control Sample (LCS) KWG0905741-1/2. The analytes in question were 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.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for 4,4'-DDT was exceeded in all field samples. The higher of the two values was reported when no evidence of a matrix interference was observed

Elevated Detection Limits:
The detection limit was elevated for at least a couple analytes in all field 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.

Approved by_____ **Date** 07/28/09

Organophosphorus Pesticides by EPA Method 614

Calibration Verification (CCV) Exceptions:
The analysis of Organophosphorus Pesticides by EPA 614 requires the use of dual column confirmation. When the 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 all analytes. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

The control criterion was exceeded for all analytes in CCV 0713F003/0713F004. The field samples analyzed in this sequence did not contain any target analytes. No further corrective action was required.

The EPA 614 evaluation criterion of 10% was exceeded for the following surrogate in CCV 0713R013: Triphenyl Phosphate. Results for this analyte in Lab Control Sample/Duplicate Lab Control Sample KWG0905775-1/-2 and all field samples were reported from a column meeting the EPA 8141 criterion of 15%. The data is flagged accordingly.

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

Approved by_____ **Date** 07/28/09

SGS

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

K0905766

(1)

CLIENT: SGS - AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI - AWWU SITE/PWSID#: KLI# 516.01

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1092878

SGS Reference #: CAS - KELSO

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	(3) 614 PEST *	608 PEST *								REMARKS/ ~~LOC ID~~
	MOAØ9PESØØ1	6/23/09	Ø7ØØ	H_2O	1	G		✓								1092878005
	MOAØ9PESØØ2	6/24/09	Ø7ØØ		1	G		✓								1092878006
	MOAØ9PESØØ3	6/24/09	Ø7ØØ		2	G		✓								1092878007
	MOAØ9PSTØØ1		Ø7ØØ		3	C	✓									1092878010
	MOAØ9PSTØØ2		Ø7ØØ		3	C	✓									1092878011
	MOAØ9PSTØØ3	6/24/09	Ø7ØØ	H_2O	4	C	✓									1092878012

Preservatives Used: — —

Analysis Required

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
[signature]	6/25/09	1105	[signature] CAS 6/26/09 1000
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 _____

Special Deliverable Requirements: LEVEL II PACKAGE + EDD

Requested Turnaround Time and-or Special Instructions: * SEE LIST FOR 614 & 608 COMPOUNDS

Samples Received Cold? YES NO

Cooler TB

Temperature °C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

CKS

1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Pesticides: EPA 608 plus Mirex Detection limits 0.05 - 1.0 µg/L

MATRIX: Water	~~**Preservative:** None, 4°C~~ Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES001	Influent-1	1 of 2	6/23/09	0700		5 A
MOA09PES002	Influent-2	1 of 2	6/24/09	↓		6 A
MOA09PES003	Effluent	~~2 of 2~~ ~~3 of 4~~ 4 of 4	↓	↓		7 A, B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

- not enough volume to fill All containers PE6001

PE6003

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343 CK3	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1092878

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09PST001	Influent-1	✓ 3 of 4	6/23-6/24	700		10 A-C
✓ MOA09PST002	Influent-2	✓ 3 of 4	↓	↓		11 A-C
✓ MOA09PST003	Effluent	✓ 4 of 4	↓	↓		12 A-D

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	~~TRANSPORTED BY:~~	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\PEST_DRY09COC.wpd

-only enough volume to fill 3 of 4l containers for sample #'s

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC P.D

Client / Project: SGS Service Request *K09* U5766

Received: 6/26/09 Opened: 6/26/09 By: KD

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 2, F/B
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 1ZA8619W01455198 45 NA Y N
   1ZA86 19W 01452 0845 8
5. **Temperature of cooler(s) upon receipt (°C):** -1.1C -.8C
   Temperature Blank (°C): .7C 1.1C
   Thermometer ID: 264 257
6. If applicable, list Chain of Custody Numbers: _____
7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* peanuts
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 in the table below* NA Y N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA Y N
13. Were the pH-preserved bottles tested* 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. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

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

**Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).*

Additional Notes, Discrepancies, & Resolutions: _____

Dissolved 6-24-09

MOA09PST001 → 2878-10

002 → -11

Ascorbic? 003 -12

Dissolved 6-25-09

Hold Unpreserved hold?

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/24/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organophosphorus Pesticides

Sample Name:	MOA09PST001	**Units:**	ug/L
Lab Code:	K0905766-004	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	07/01/09	07/13/09	KWG0905775	
Malathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Ethyl Parathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Azinphos-methyl (Guthion)	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	96	23-139	07/13/09	Acceptable
Tributyl Phosphate	111	20-153	07/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/24/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organophosphorus Pesticides

Sample Name:	MOA09PST002	**Units:**	ug/L
Lab Code:	K0905766-005	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	07/01/09	07/13/09	KWG0905775	
Malathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Ethyl Parathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Azinphos-methyl (Guthion)	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	98	23-139	07/13/09	Acceptable
Tributyl Phosphate	109	20-153	07/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/24/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organophosphorus Pesticides

Sample Name:	MOA09PST003	**Units:**	ug/L
Lab Code:	K0905766-006	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	07/01/09	07/13/09	KWG0905775	
Malathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Ethyl Parathion	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	
Azinphos-methyl (Guthion)	ND	U	0.20	1	07/01/09	07/13/09	KWG0905775	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	68	23-139	07/13/09	Acceptable
Tributyl Phosphate	115	20-153	07/13/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0905775-5	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	07/01/09	07/08/09	KWG0905775	
Malathion	ND	U	0.20	1	07/01/09	07/08/09	KWG0905775	
Ethyl Parathion	ND	U	0.20	1	07/01/09	07/08/09	KWG0905775	
Azinphos-methyl (Guthion)	ND	U	0.20	1	07/01/09	07/08/09	KWG0905775	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	92	23-139	07/08/09	Acceptable
Tributyl Phosphate	93	20-153	07/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc.
Project: KLI-AWWU/KLI#516.01
Sample Matrix: Water

Service Request: K0905766

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535
Analysis Method: 614M

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PST001	K0905766-004	96	111
MOA09PST002	K0905766-005	98	109
MOA09PST003	K0905766-006	68	115
Method Blank	KWG0905775-5	92	93
Lab Control Sample	KWG0905775-1	106	99
Duplicate Lab Control Sample	KWG0905775-2	105	100

Surrogate Recovery Control Limits (%)

Sur1 =	Triphenyl Phosphate	23-139
Sur2 =	Tributyl Phosphate	20-153

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:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Extracted:**	07/01/2009
Sample Matrix:	Water	**Date Analyzed:**	07/13/2009

Lab Control Spike/Duplicate Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method:	EPA 3535	**Units:**	ug/L
Analysis Method:	614M	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0905775

	Lab Control Sample KWG0905775-1 Lab Control Spike			Duplicate Lab Control Sample KWG0905775-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	1.13	2.00	56	0.969	2.00	48	10-201	15	30
Malathion	1.76	2.00	88	1.87	2.00	93	58-130	6	30
Ethyl Parathion	1.94	2.00	97	2.01	2.00	101	57-117	3	30
Azinphos-methyl (Guthion)	2.00	2.00	100	2.08	2.00	104	54-128	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.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/23/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organochlorine Pesticides

Sample Name:	MOA09PES001	**Units:**	ug/L
Lab Code:	K0905766-001	**Basis:**	NA
Extraction Method:	EPA 3535	**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	06/30/09	07/09/09	KWG0905741	*
beta-BHC	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
gamma-BHC (Lindane)	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
delta-BHC	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
Heptachlor	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Aldrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Heptachlor Epoxide	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endosulfan I	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Dieldrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
4,4'-DDE	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
Endosulfan II	ND	Ui	0.013	1	06/30/09	07/09/09	KWG0905741	
4,4'-DDD	ND	Ui	0.032	1	06/30/09	07/09/09	KWG0905741	
Endrin Aldehyde	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endosulfan Sulfate	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
4,4'-DDT	**0.20**	P	0.011	1	06/30/09	07/09/09	KWG0905741	
Toxaphene	ND	U	0.51	1	06/30/09	07/09/09	KWG0905741	
Chlordane	ND	U	0.21	1	06/30/09	07/09/09	KWG0905741	
Mirex	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	60	10-121	07/09/09	Acceptable
Decachlorobiphenyl	79	17-150	07/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/24/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organochlorine Pesticides

Sample Name:	MOA09PES002	**Units:**	ug/L
Lab Code:	K0905766-002	**Basis:**	NA
Extraction Method:	EPA 3535	**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	06/30/09	07/09/09	KWG0905741	*
beta-BHC	ND	Ui	0.023	1	06/30/09	07/09/09	KWG0905741	*
gamma-BHC (Lindane)	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
delta-BHC	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
Heptachlor	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Aldrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Heptachlor Epoxide	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endosulfan I	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Dieldrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
4,4'-DDE	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endrin	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
Endosulfan II	ND	Ui	0.014	1	06/30/09	07/09/09	KWG0905741	
4,4'-DDD	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endrin Aldehyde	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	
Endosulfan Sulfate	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	*
4,4'-DDT	**0.21**	P	0.011	1	06/30/09	07/09/09	KWG0905741	
Toxaphene	ND	U	0.51	1	06/30/09	07/09/09	KWG0905741	
Chlordane	ND	U	0.21	1	06/30/09	07/09/09	KWG0905741	
Mirex	ND	U	0.011	1	06/30/09	07/09/09	KWG0905741	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	63	10-121	07/09/09	Acceptable
Decachlorobiphenyl	61	17-150	07/09/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/24/2009
Sample Matrix:	Water	**Date Received:**	06/26/2009

Organochlorine Pesticides

Sample Name:	MOA09PES003	**Units:**	ug/L
Lab Code:	K0905766-003	**Basis:**	NA
Extraction Method:	EPA 3535	**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	06/30/09	07/08/09	KWG0905741	*
beta-BHC	ND	Ui	0.020	1	06/30/09	07/08/09	KWG0905741	*
gamma-BHC (Lindane)	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*
delta-BHC	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*
Heptachlor	ND	Ui	0.024	1	06/30/09	07/08/09	KWG0905741	
Aldrin	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	
Heptachlor Epoxide	ND	Ui	0.012	1	06/30/09	07/08/09	KWG0905741	
Endosulfan I	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	
Dieldrin	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*
4,4'-DDE	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	
Endrin	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*
Endosulfan II	ND	Ui	0.018	1	06/30/09	07/08/09	KWG0905741	
4,4'-DDD	ND	Ui	0.045	1	06/30/09	07/08/09	KWG0905741	
Endrin Aldehyde	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	
Endosulfan Sulfate	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*
4,4'-DDT	**0.25**	P	0.011	1	06/30/09	07/08/09	KWG0905741	
Toxaphene	ND	Ui	0.56	1	06/30/09	07/08/09	KWG0905741	
Chlordane	ND	U	0.21	1	06/30/09	07/08/09	KWG0905741	
Mirex	ND	U	0.011	1	06/30/09	07/08/09	KWG0905741	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	69	10-121	07/08/09	Acceptable
Decachlorobiphenyl	76	17-150	07/08/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905766
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0905741-5	**Basis:**	NA
Extraction Method:	EPA 3535	**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	06/30/09	07/07/09	KWG0905741	*
beta-BHC	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
gamma-BHC (Lindane)	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
delta-BHC	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
Heptachlor	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Aldrin	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Heptachlor Epoxide	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Endosulfan I	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Dieldrin	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
4,4'-DDE	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Endrin	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
Endosulfan II	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
4,4'-DDD	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Endrin Aldehyde	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Endosulfan Sulfate	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*
4,4'-DDT	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	
Toxaphene	ND	U	0.50	1	06/30/09	07/07/09	KWG0905741	
Chlordane	ND	U	0.20	1	06/30/09	07/07/09	KWG0905741	
Mirex	ND	U	0.010	1	06/30/09	07/07/09	KWG0905741	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	95	10-121	07/07/09	Acceptable
Decachlorobiphenyl	105	17-150	07/07/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: SGS Environmental Services, Inc.
Project: KLI-AWWU/KLI#516.01
Sample Matrix: Water

Service Request: K0905766

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES001	K0905766-001	60	79
MOA09PES002	K0905766-002	63	61
MOA09PES003	K0905766-003	69	76
Method Blank	KWG0905741-5	95	105
Lab Control Sample	KWG0905741-1	89	97
Duplicate Lab Control Sample	KWG0905741-2	88	104

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	10-121
Sur2 =	Decachlorobiphenyl	17-150

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: KLI-AWWU/KLI#516.01
Sample Matrix: Water

Service Request: K0905766
Date Extracted: 06/30/2009
Date Analyzed: 07/07/2009 - 07/08/2009

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3535
Analysis Method: 8081A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0905741

	Lab Control Sample KWG0905741-1 Lab Control Spike			Duplicate Lab Control Sample KWG0905741-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
alpha-BHC	0.266	0.200	133 *	0.233	0.200	117	43-127	13	30
beta-BHC	0.263	0.200	131 *	0.241	0.200	121	41-129	9	30
gamma-BHC (Lindane)	0.265	0.200	133 *	0.239	0.200	120	42-128	10	30
delta-BHC	0.285	0.200	143 *	0.263	0.200	131	47-141	8	30
Heptachlor	0.247	0.200	124	0.221	0.200	111	34-126	11	30
Aldrin	0.155	0.200	77	0.147	0.200	73	10-125	5	30
Heptachlor Epoxide	0.233	0.200	117	0.213	0.200	107	45-124	9	30
Endosulfan I	0.225	0.200	112	0.206	0.200	103	30-115	9	30
Dieldrin	0.261	0.200	131 *	0.240	0.200	120	50-120	8	30
4,4'-DDE	0.260	0.200	130	0.238	0.200	119	36-137	9	30
Endrin	0.297	0.200	149 *	0.276	0.200	138 *	53-132	8	30
Endosulfan II	0.233	0.200	116	0.214	0.200	107	32-123	8	30
4,4'-DDD	0.269	0.200	134	0.248	0.200	124	38-140	8	30
Endrin Aldehyde	0.206	0.200	103	0.195	0.200	97	30-114	6	30
Endosulfan Sulfate	0.248	0.200	124 *	0.230	0.200	115	46-120	8	30
4,4'-DDT	0.291	0.200	145	0.267	0.200	134	45-146	8	30
Toxaphene	2.08	2.00	104	2.11	2.00	106	37-142	2	30
Chlordane	2.53	2.00	126	2.55	2.00	127	34-156	1	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.

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

Report Number: G552-609

Client Project: KLI - AWWU (KLI#516.01)

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 Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager July 10, 2009
Project Manager Date
Barbara Hager

Case Narrative
SGS Project: **G552-609**
Project Name: **KLI AWWU (KLI#516.01)**

For Method: 8280A TCDD Only

- The submitted samples were accepted into the lab on June 26th, 2009 and extracted on July 8th, 2009 by method 3520C. The sample extracts and associated QC extracts were then processed through clean-up as prescribed in the SGS standard operating procedures and analyzed by GC/MS for method 8280A.

- No analytical issues were encountered.

Tamara Morgan 7-10-09

Tamara Morgan Date
Data Validation

Method 8280

MOA09DXN001

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	45.6	91.2	26:47	0.80	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.7	94.8	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

Client Information

Project Name: KLI - AWWU (KLI#516.01)

Sample ID: MOA09DXN001

Sample Information

Matrix: Water

Weight / Volume: 974 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG17185

Laboratory Information

Project ID: G552-609

Sample ID: G552-609-1C

Collection Date/Time: 24-Jun-09 07:00

Receipt Date: 26-Jun-09 11:00

Extraction Date: 08-Jul-09

Analysis Date: 09-Jul-09 22:29

Filename: 0709507

Retchk: 0709501

Begin ConCal: 0709502

End ConCal: 0709509

Initial Cal: m8280-5061509

Analyzed by: DS

Date: 7-10-09

Reviewed by: TM

Date: 7-10-09

Method 8280

MOA09DXN002

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	1.02				

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	45.1	90.2	26:47	0.78	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.3	93.2	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

Client Information

Project Name: KLI - AWWU (KLI#516.01)

Sample ID: MOA09DXN002

Laboratory Information

Project ID: G552-609

Sample ID: G552-609-2C

Collection Date/Time: 24-Jun-09 07:00

Receipt Date: 26-Jun-09 11:00

Extraction Date: 08-Jul-09

Analysis Date: 09-Jul-09 23:11

Sample Information

Matrix: Water

Weight / Volume: 976 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG17185

Filename: 0709508

Retchk: 0709501

Begin ConCal: 0709502

End ConCal: 0709509

Initial Cal: m8280-5061509

Analyzed by: DS

Date: 7-10-09

Reviewed by: TM

Date: 7-10-09

Method 8280LMB

LMB

Lab

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	39.3	78.6	26:46	0.80	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	22.1	88.4	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:19	0.80	

Sample Information

Matrix:	Water	
Weight / Volume:	1000	mL
Solids / Lipids:	NA	%
Original pH :	5	
Batch ID:	WG17185	

Laboratory Information

Sample ID:	LMB17185		Filename:	0709506
			Retchk:	0709501
		8:00	Begin ConCal:	0709502
Extraction Date:	08-Jul-09		End ConCal:	0709509
Analysis Date:	09-Jul-09	21:48	Initial Cal:	m8280-5061509

Analyzed by: DS
Date: 7-10-09

Reviewed by: TM
Date: 7-10-09

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:	OPR17185	OPR Filename :	0709504
Extraction Date:	08-Jul-09	Retchk:	0709501
Analysis Date:	09-Jul-09	Begin ConCal:	0709502
Method:	8280	End ConCal:	0709509
		Initial Cal:	m8280-5061509
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	45.8	91.6	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	24.7	98.8	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

QC Information

OPR Project No:	OPR17185
Extraction Date:	08-Jul-09
Analysis Date:	09-Jul-09
Method:	8280

File Information

OPR Filename :	0709504
Retchk:	0709501
Begin ConCal:	0709502
End ConCal:	0709509
Initial Cal:	m8280-5061509

Sample Information

Matrix: Aqueous

Analyzed by: DS
Date: 7-10-09

Reviewed by: YM
Date: 7-10-09

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	10.5	105		70.0	130	103		1.92		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No:	OPRD17185
Extraction Date:	08-Jul-09
Analysis Date:	09-Jul-09
Method:	8280

Sample Information

Matrix:	Aqueous

File Information

OPRD Filename :	0709505
Retchk:	0709501
Begin ConCal:	0709502
End ConCal:	0709509
Initial Cal:	m8280-5061509

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	44.4	88.8	26:46	0.81	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.8	95.2	26:47	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

QC Information

OPRD Project No: OPRD17185
Extraction Date: 08-Jul-09
Analysis Date: 09-Jul-09
Method: 8280

File Information

OPRD Filename : 0709505
Retchk: 0709501
Begin ConCal: 0709502
End ConCal: 0709509
Initial Cal: m8280-5061509

Sample Information

Matrix: Aqueous

Analyzed by: DS
Date: 7-10-09

Reviewed by: TM
Date: 7-10-09

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- Maryland
- New Jersey
- New York
- North Carolina
- Ohio
- West Virginia

www.us.sgs.com

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907-562 2343

PROJECT: KLI-ALWILL SITE/PWSID#: KLI# 516.01

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1092878

SGS Reference #: SGS-NC G552-609

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used: —	Analysis Required (3): 2378-TCDD 8280								REMARKS/ ~~LOC ID~~
	M0A09DXN001	6/24/09	0700	H_2O	2	C		✓								1092878008
	M0A09DXN002	6/24/09	0700	H_2O	2	C		✓								1092878009

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Forest Taylor	6/25/09	1120	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/26/09	Time 11:00	Received For Laboratory By:

(4)

DOD Project? YES (NO)

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions:

Samples Received Cold? (YES) NO

Temperature°C: Cooler 5.9 . TB

Chain of Custody Seal: (Circle) (INTACT) BROKEN ABSENT

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1092877

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/21/2009	14:48
Workorder	1092877	516.01			

Sample ID	**Client Sample ID**

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

1092877001 **PS** **MOA09DXN003 Sludge**

8280 - 2,3,7,8-TCDD was analyzed by SGS in Wilmington, NC.

1092877002 **PS** **MOA09SVL003 Sludge**

8270D - Elevated PQL due to thick sample extract.

1092877003 **PS** **MOA09PES004 Sludge**

8081 - Pesticides were analyzed by CAS in Kelso, WA.
8141 - Pesticides were analyzed by CAS in Kelso, WA.
8082A - PQLs are elevated due to sample dilution. Sample was diluted due to dark extracts.

1092877004 **PS** **MOA09VOP019 Sludge**

8260 - VOC was analyzed by SGS in Wilmington, NC.

1092877005 **PS** **MOA09MET003 Sludge**

9012 - Cyanide was analyzed by CAS in Kelso, WA.

1092877006 **TB** **TRIP BLANK**

8260 - VOC was analyzed by SGS in Wilmington, NC.

1092877007 **PS** **MOAASB003 Sludge**

Asbestos was analyzed by LabCor in Seattle, WA.

904052 **LCS** **LCS for HBN 215911 [XXX/21050]**

8270D - LCS recovery is outside of QC criteria for pyridine (biased low). The compound is not a target analyte in the associated samples.
8270D - LCS recovery is outside of QC criteria for multiple analytes (biased high). The analytes are not detected above the PQL in the associated samples.

904053 **MS** **09ELM288-101(1093024002MS)**

8270D - MS recovery is outside of QC criteria for mutliple analytes. Refer to LCS for accruacy.

904054 **MSD** **09ELM288-101(1093024002MSD)**

8270D - MS recovery is outside of QC criteria for mutliple analytes. Refer to LCS for accruacy.

904420 **CCV** **CCV for HBN 215993 (XMS/4951)**

8270D - CCV recovery is outside of QC criteria for mutliple analytes (biased high). The analytes are not reported above the PQL in the associated samples.

Case Narrative

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/21/2009	14:48
Workorder	1092877	516.01			

Sample ID		Client Sample ID
904525	**MS**	**N1-1,2,3(1092991001MS)**

6020 - MS recoveries for Cr, Sb, V, and Zn are outside of acceptance criteria. Post-digestion spike was successful.

904526	**MSD**	**N1-1,2,3(1092991001MSD)**

6020 - MSD recoveries for Cr, Sb, V, and Zn are outside of acceptance criteria. Post-digestion spike was successful.

905287	**CCV**	**CCV for HBN 216097 (XGC/6607)**

8082A - CCV recovery for Arochlor 1016 does not meet QC criteria (biased high). This analyte was not detected above the PQL in the associated samples.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
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Gary Lawley
Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

Work Order:	1092877	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 21, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1092877002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 14:48
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	MOA09SVL003 Sludge	**Received Date/Time**	06/24/2009 13:00
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8270D - Elevated PQL due to thick sample extract.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Aniline	ND	1010	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Phenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Bis(2-Chloroethyl)ether	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Chlorophenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
1,3-Dichlorobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
1,4-Dichlorobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzyl alcohol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
1,2-Dichlorobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Methylphenol (o-Cresol)	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Bis(2chloro1methylethyl)Ether	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
3&4-Methylphenol (p&m-Cresol)	ND	503	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
N-Nitroso-di-n-propylamine	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Hexachloroethane	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Nitrobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Isophorone	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Nitrophenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,4-Dimethylphenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzoic acid	ND	754	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Bis(2-Chloroethoxy)methane	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
1,2,4-Trichlorobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Naphthalene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Chloroaniline	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Hexachlorobutadiene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Chloro-3-methylphenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,4-Dichlorophenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Methylnaphthalene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Hexachlorocyclopentadiene	ND	352	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092877002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 14:48
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	MOA09SVL003 Sludge	**Received Date/Time**	06/24/2009 13:00
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
2,4,6-Trichlorophenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,4,5-Trichlorophenol	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Chloronaphthalene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Nitroaniline	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Dimethylphthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Acenaphthylene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,6-Dinitrotoluene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
3-Nitroaniline	ND	251	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Acenaphthene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,4-Dinitrophenol	ND	1510	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Nitrophenol	ND	503	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Dibenzofuran	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2,4-Dinitrotoluene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Diethylphthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Chlorophenyl-phenylether	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Fluorene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Nitroaniline	ND	1510	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
2-Methyl-4,6-dinitrophenol	ND	1010	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
N-Nitrosodiphenylamine	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
4-Bromophenyl-phenylether	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Hexachlorobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Pentachlorophenol	ND	1010	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Phenanthrene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Anthracene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Di-n-butylphthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Fluoranthene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Pyrene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Azobenzene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Butylbenzylphthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
3,3-Dichlorobenzidine	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH

SGS Ref.#	1092877002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 14:48
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	MOA09SVL003 Sludge	**Received Date/Time**	06/24/2009 13:00
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Benzo(a)Anthracene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Chrysene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
bis(2-Ethylhexyl)phthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
di-n-Octylphthalate	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzo[b]Fluoranthene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzo[k]fluoranthene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzo[a]pyrene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Indeno[1,2,3-c,d] pyrene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Dibenzo[a,h]anthracene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Benzo[g,h,i]perylene	ND	126	mg/Kg	SW8270D	A		06/26/09	06/27/09	JDH
Surrogates									
2-Fluorophenol <surr>	53.9		%	SW8270D	A	41-84	06/26/09	06/27/09	JDH
Phenol-d6 <surr>	75.9		%	SW8270D	A	48-94	06/26/09	06/27/09	JDH
Nitrobenzene-d5 <surr>	74.4		%	SW8270D	A	37-100	06/26/09	06/27/09	JDH
2-Fluorobiphenyl <surr>	82		%	SW8270D	A	45-105	06/26/09	06/27/09	JDH
2,4,6-Tribromophenol <surr>	79.7		%	SW8270D	A	47-125	06/26/09	06/27/09	JDH
Terphenyl-d14 <surr>	59.2		%	SW8270D	A	50-120	06/26/09	06/27/09	JDH
Solids									
Total Solids	30.0		%	SM20 2540G	A			06/26/09	HJ

SGS Ref.#	1092877003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 14:48
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	MOA09PES004 Sludge	**Received Date/Time**	06/24/2009 13:00
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8081 - Pesticides were analyzed by CAS in Kelso, WA.
8141 - Pesticides were analyzed by CAS in Kelso, WA.
8082A - PQLs are elevated due to sample dilution. Sample was diluted due to dark extracts.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Polychlorinated Biphenyls									
Aroclor-1016	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1221	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1232	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1242	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1248	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1254	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Aroclor-1260	ND	1640	ug/Kg	SW8082A	A		06/29/09	07/16/09	CDE
Surrogates									
Decachlorobiphenyl <surr>	104		%	SW8082A	A	60-125	06/29/09	07/16/09	CDE
Solids									
Total Solids	30.3		%	SM20 2540G	A			06/26/09	HJ

SGS Ref.#	1092877005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 14:48
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	MOA09MET003 Sludge	**Received Date/Time**	06/24/2009 13:00
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

9012 - Cyanide was analyzed by CAS in Kelso, WA.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP/MS									
Antimony	ND	0.325	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Arsenic	ND	3.25	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Beryllium	1.75	0.325	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Cadmium	0.664	0.650	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Chromium	122	1.30	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Copper	163	1.95	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Lead	19.4	0.650	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Molybdenum	ND	3.25	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Nickel	400	0.650	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Selenium	ND	1.63	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Silver	0.353	0.325	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Thallium	ND	0.0650	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Zinc	225	3.25	mg/Kg	SW6020	A		06/29/09	07/01/09	NRB
Solids									
Total Solids	30.0		%	SM20 2540G	A			06/26/09	HJ

SGS Ref.#	904051	Method Blank	**Printed Date/Time**	07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	XXX21050
Project Name/#	516.01		**Method**	SW3550C
Matrix	Soil/Solid (dry weight)		**Date**	06/26/2009

QC results affect the following production samples:

1092877002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
N-Nitrosodimethylamine	ND	0.250	0.0780	mg/Kg	06/27/09
Aniline	ND	2.00	0.620	mg/Kg	06/27/09
Phenol	ND	0.250	0.0780	mg/Kg	06/27/09
Bis(2-Chloroethyl)ether	ND	0.250	0.0780	mg/Kg	06/27/09
2-Chlorophenol	ND	0.250	0.0780	mg/Kg	06/27/09
1,3-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
1,4-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
Benzyl alcohol	ND	0.250	0.0780	mg/Kg	06/27/09
1,2-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
2-Methylphenol (o-Cresol)	ND	0.250	0.0780	mg/Kg	06/27/09
Bis(2chloro1methylethyl)Ether	ND	0.250	0.0780	mg/Kg	06/27/09
3&4-Methylphenol (p&m-Cresol)	ND	1.00	0.310	mg/Kg	06/27/09
N-Nitroso-di-n-propylamine	ND	0.250	0.0780	mg/Kg	06/27/09
Hexachloroethane	ND	0.250	0.0780	mg/Kg	06/27/09
Nitrobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
Isophorone	ND	0.250	0.0780	mg/Kg	06/27/09
2-Nitrophenol	ND	0.250	0.0780	mg/Kg	06/27/09
2,4-Dimethylphenol	ND	0.250	0.0780	mg/Kg	06/27/09
Benzoic acid	ND	1.50	0.750	mg/Kg	06/27/09
Bis(2-Chloroethoxy)methane	ND	0.250	0.0780	mg/Kg	06/27/09
1,2,4-Trichlorobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
Naphthalene	ND	0.250	0.0780	mg/Kg	06/27/09
4-Chloroaniline	ND	0.250	0.0780	mg/Kg	06/27/09
Hexachlorobutadiene	ND	0.250	0.0780	mg/Kg	06/27/09
4-Chloro-3-methylphenol	ND	0.250	0.0780	mg/Kg	06/27/09
2,4-Dichlorophenol	ND	0.250	0.0780	mg/Kg	06/27/09
2-Methylnaphthalene	ND	0.250	0.0780	mg/Kg	06/27/09
Hexachlorocyclopentadiene	ND	0.700	0.200	mg/Kg	06/27/09
2,4,6-Trichlorophenol	ND	0.250	0.0780	mg/Kg	06/27/09
2,4,5-Trichlorophenol	ND	0.250	0.0780	mg/Kg	06/27/09
2-Chloronaphthalene	ND	0.250	0.0780	mg/Kg	06/27/09
2-Nitroaniline	ND	0.250	0.0780	mg/Kg	06/27/09
Dimethylphthalate	ND	0.250	0.0780	mg/Kg	06/27/09
Acenaphthylene	ND	0.250	0.0780	mg/Kg	06/27/09
2,6-Dinitrotoluene	ND	0.250	0.0780	mg/Kg	06/27/09
3-Nitroaniline	ND	0.500	0.150	mg/Kg	06/27/09

SGS Ref.#	904051 Method Blank		**Printed Date/Time**	07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	XXX21050
Project Name/#	516.01		**Method**	SW3550C
Matrix	Soil/Solid (dry weight)		**Date**	06/26/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
Acenaphthene	ND	0.250	0.0780	mg/Kg	06/27/09
2,4-Dinitrophenol	ND	3.00	0.940	mg/Kg	06/27/09
4-Nitrophenol	ND	1.00	0.310	mg/Kg	06/27/09
Dibenzofuran	ND	0.250	0.0780	mg/Kg	06/27/09
2,4-Dinitrotoluene	ND	0.250	0.0780	mg/Kg	06/27/09
Diethylphthalate	ND	0.250	0.0780	mg/Kg	06/27/09
4-Chlorophenyl-phenylether	ND	0.250	0.0780	mg/Kg	06/27/09
Fluorene	ND	0.250	0.0780	mg/Kg	06/27/09
4-Nitroaniline	ND	3.00	0.940	mg/Kg	06/27/09
2-Methyl-4,6-dinitrophenol	ND	2.00	0.620	mg/Kg	06/27/09
N-Nitrosodiphenylamine	ND	0.250	0.0780	mg/Kg	06/27/09
4-Bromophenyl-phenylether	ND	0.250	0.0780	mg/Kg	06/27/09
Hexachlorobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
Pentachlorophenol	ND	2.00	0.620	mg/Kg	06/27/09
Phenanthrene	ND	0.250	0.0780	mg/Kg	06/27/09
Anthracene	ND	0.250	0.0780	mg/Kg	06/27/09
Di-n-butylphthalate	ND	0.250	0.0780	mg/Kg	06/27/09
Fluoranthene	ND	0.250	0.0780	mg/Kg	06/27/09
Pyrene	ND	0.250	0.0780	mg/Kg	06/27/09
Azobenzene	ND	0.250	0.0780	mg/Kg	06/27/09
Butylbenzylphthalate	ND	0.250	0.0780	mg/Kg	06/27/09
3,3-Dichlorobenzidine	ND	0.250	0.0780	mg/Kg	06/27/09
Benzo(a)Anthracene	ND	0.250	0.0780	mg/Kg	06/27/09
Chrysene	ND	0.250	0.0780	mg/Kg	06/27/09
bis(2-Ethylhexyl)phthalate	ND	0.250	0.0780	mg/Kg	06/27/09
di-n-Octylphthalate	ND	0.250	0.0780	mg/Kg	06/27/09
Benzo[b]Fluoranthene	ND	0.250	0.0780	mg/Kg	06/27/09
Benzo[k]fluoranthene	ND	0.250	0.0780	mg/Kg	06/27/09
Benzo[a]pyrene	ND	0.250	0.0780	mg/Kg	06/27/09
Indeno[1,2,3-c,d] pyrene	ND	0.250	0.0780	mg/Kg	06/27/09
Dibenzo[a,h]anthracene	ND	0.250	0.0780	mg/Kg	06/27/09
Benzo[g,h,i]perylene	ND	0.250	0.0780	mg/Kg	06/27/09
Surrogates					
2-Fluorophenol <surr>	65.4	41-84		%	06/27/09
Phenol-d6 <surr>	77.5	48-94		%	06/27/09
Nitrobenzene-d5 <surr>	73.2	37-100		%	06/27/09
2-Fluorobiphenyl <surr>	76.7	45-105		%	06/27/09
2,4,6-Tribromophenol <surr>	76	47-125		%	06/27/09

SGS Ref.#	904051	Method Blank	**Printed Date/Time**		07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21050
Project Name/#	516.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	06/26/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
Terphenyl-d14 <surr>	65.9	50-120		%	06/27/09

Batch XMS4951
Method SW8270D
Instrument HP 5890 Series II MS4 SVPA

SGS Ref.#	904340	Method Blank	**Printed Date/Time**		07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21054
Project Name/#	516.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	06/29/2009

QC results affect the following production samples:

1092877003

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Polychlorinated Biphenyls					
Aroclor-1016	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1221	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1232	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1242	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1248	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1254	ND	50.0	15.0	ug/Kg	06/30/09
Aroclor-1260	ND	50.0	15.0	ug/Kg	06/30/09
Surrogates					
Decachlorobiphenyl <surr>	100	60-125		%	06/30/09

Batch XGC6607
Method SW8082A
Instrument HP 6890 Series II ECD SV H F

SGS Ref.#	904342	Method Blank	**Printed Date/Time**	07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.01			**Method**
Matrix	Soil/Solid (dry weight)			**Date**

QC results affect the following production samples:

1092877002, 1092877003, 1092877005

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Solids					
Total Solids	100			%	06/26/09
Batch SPT7941					
Method SM20 2540G					
Instrument					

SGS Ref.#	904523	Method Blank	**Printed Date/Time**	07/21/2009 14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	MXX21849
Project Name/#	516.01		**Method**	SW3050B
Matrix	Soil/Solid (dry weight)		**Date**	06/29/2009

QC results affect the following production samples:

1092877005

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	0.100	0.0310	mg/Kg	07/01/09
Arsenic	ND	1.00	0.310	mg/Kg	07/01/09
Beryllium	ND	0.100	0.0310	mg/Kg	07/01/09
Cadmium	ND	0.200	0.0620	mg/Kg	07/01/09
Chromium	ND	0.400	0.120	mg/Kg	07/01/09
Copper	ND	0.600	0.180	mg/Kg	07/01/09
Lead	ND	0.200	0.0620	mg/Kg	07/01/09
Molybdenum	ND	1.00	0.310	mg/Kg	07/01/09
Nickel	ND	0.200	0.0620	mg/Kg	07/01/09
Selenium	ND	0.500	0.150	mg/Kg	07/01/09
Silver	ND	0.100	0.0310	mg/Kg	07/01/09
Thallium	ND	0.0200	0.00620	mg/Kg	07/01/09
Zinc	0.418 J	1.00	0.310	mg/Kg	07/01/09

Batch MMS5962
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	904343	Duplicate	**Printed Date/Time**	07/21/2009	14:48
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	516.01			**Method**	
Original	1093024002			**Date**	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877002, 1092877003, 1092877005

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	85.9	86.6	%	1	(< 15)	06/26/2009

Batch SPT7941
Method SM20 2540G
Instrument

SGS Ref.#	904052	Lab Control Sample	**Printed Date/Time**	07/21/2009	14:48
			Prep **Batch**	XXX21050	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
N-Nitrosodimethylamine	LCS	3.65	82	(45-90)			4.44 mg/Kg	06/27/2009
Aniline	LCS	3.17	71	(40-92)			4.44 mg/Kg	06/27/2009
Phenol	LCS	3.74	84	(56-97)			4.44 mg/Kg	06/27/2009
Bis(2-Chloroethyl)ether	LCS	3.73	84	(49-91)			4.44 mg/Kg	06/27/2009
2-Chlorophenol	LCS	3.30	74	(56-94)			4.44 mg/Kg	06/27/2009
1,3-Dichlorobenzene	LCS	3.50	79	(52-92)			4.44 mg/Kg	06/27/2009
1,4-Dichlorobenzene	LCS	3.36	76	(51-92)			4.44 mg/Kg	06/27/2009
Benzyl alcohol	LCS	4.21	95	(61-110)			4.44 mg/Kg	06/27/2009
1,2-Dichlorobenzene	LCS	3.48	78	(52-92)			4.44 mg/Kg	06/27/2009
2-Methylphenol (o-Cresol)	LCS	3.68	83	(61-101)			4.44 mg/Kg	06/27/2009
Bis(2chloro1methylethyl)Ether	LCS	4.78	108 *	(50-97)			4.44 mg/Kg	06/27/2009
3&4-Methylphenol (p&m-Cresol)	LCS	5.44	87	(65-105)			6.22 mg/Kg	06/27/2009
N-Nitroso-di-n-propylamine	LCS	3.46	78	(59-100)			4.44 mg/Kg	06/27/2009
Hexachloroethane	LCS	3.33	75	(51-89)			4.44 mg/Kg	06/27/2009
Nitrobenzene	LCS	4.14	93	(53-99)			4.44 mg/Kg	06/27/2009
Isophorone	LCS	4.27	96	(57-108)			4.44 mg/Kg	06/27/2009
2-Nitrophenol	LCS	3.92	88	(65-101)			4.44 mg/Kg	06/27/2009
2,4-Dimethylphenol	LCS	4.22	95	(63-105)			4.44 mg/Kg	06/27/2009
Benzoic acid	LCS	4.85	78 *	(25-76)			6.22 mg/Kg	06/27/2009
Bis(2-Chloroethoxy)methane	LCS	4.38	99	(57-104)			4.44 mg/Kg	06/27/2009

SGS Ref.#	904052	Lab Control Sample	**Printed Date/Time**	07/21/2009 14:48
			Prep Batch	XXX21050
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C
Project Name/#	516.01		**Date**	06/26/2009
Matrix	Soil/Solid (dry weight)			

Parameter		QC Results	Pct Recov		LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
1,2,4-Trichlorobenzene	LCS	4.38	99		(54-101)			4.44 mg/Kg	06/27/2009
Naphthalene	LCS	3.49	79		(51-105)			4.44 mg/Kg	06/27/2009
4-Chloroaniline	LCS	3.68	83		(58-102)			4.44 mg/Kg	06/27/2009
Hexachlorobutadiene	LCS	4.71	106		(57-107)			4.44 mg/Kg	06/27/2009
4-Chloro-3-methylphenol	LCS	4.43	100		(69-114)			4.44 mg/Kg	06/27/2009
2,4-Dichlorophenol	LCS	4.40	99		(64-107)			4.44 mg/Kg	06/27/2009
2-Methylnaphthalene	LCS	4.08	92		(61-105)			4.44 mg/Kg	06/27/2009
Hexachlorocyclopentadiene	LCS	4.52	102		(35-102)			4.44 mg/Kg	06/27/2009
2,4,6-Trichlorophenol	LCS	4.99	112	*	(67-110)			4.44 mg/Kg	06/27/2009
2,4,5-Trichlorophenol	LCS	5.00	113	*	(71-110)			4.44 mg/Kg	06/27/2009
2-Chloronaphthalene	LCS	3.75	84		(52-103)			4.44 mg/Kg	06/27/2009
2-Nitroaniline	LCS	4.08	92		(70-120)			4.44 mg/Kg	06/27/2009
Dimethylphthalate	LCS	4.13	93		(59-110)			4.44 mg/Kg	06/27/2009
Acenaphthylene	LCS	3.85	87		(56-105)			4.44 mg/Kg	06/27/2009
2,6-Dinitrotoluene	LCS	4.63	104		(67-110)			4.44 mg/Kg	06/27/2009
3-Nitroaniline	LCS	4.00	90		(66-110)			4.44 mg/Kg	06/27/2009
Acenaphthene	LCS	3.95	89		(57-110)			4.44 mg/Kg	06/27/2009
2,4-Dinitrophenol	LCS	8.97	112		(43-130)			8 mg/Kg	06/27/2009
4-Nitrophenol	LCS	7.01	113		(44-137)			6.22 mg/Kg	06/27/2009
Dibenzofuran	LCS	4.18	94		(60-105)			4.44 mg/Kg	06/27/2009

SGS Ref.#	904052 Lab Control Sample	**Printed Date/Time**	07/21/2009	14:48
		Prep Batch	XXX21050	
Client Name	Kinnetic Laboratories, Inc.	**Method**	SW3550C	
Project Name/#	516.01	**Date**	06/26/2009	
Matrix	Soil/Solid (dry weight)			

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
2,4-Dinitrotoluene	LCS	4.53	102	(64-115)			4.44 mg/Kg	06/27/2009
Diethylphthalate	LCS	3.86	87	(50-115)			4.44 mg/Kg	06/27/2009
4-Chlorophenyl-phenylether	LCS	4.76	107	(53-110)			4.44 mg/Kg	06/27/2009
Fluorene	LCS	4.21	95	(64-110)			4.44 mg/Kg	06/27/2009
4-Nitroaniline	LCS	4.01	90	(63-115)			4.44 mg/Kg	06/27/2009
2-Methyl-4,6-dinitrophenol	LCS	8.02	100	(51-131)			8 mg/Kg	06/27/2009
N-Nitrosodiphenylamine	LCS	3.80	85	(61-114)			4.44 mg/Kg	06/27/2009
4-Bromophenyl-phenylether	LCS	3.90	88	(53-102)			4.44 mg/Kg	06/27/2009
Hexachlorobenzene	LCS	3.99	90	(63-120)			4.44 mg/Kg	06/27/2009
Pentachlorophenol	LCS	5.86	94	(56-117)			6.22 mg/Kg	06/27/2009
Phenanthrene	LCS	4.01	90	(63-110)			4.44 mg/Kg	06/27/2009
Anthracene	LCS	4.06	91	(65-105)			4.44 mg/Kg	06/27/2009
Di-n-butylphthalate	LCS	3.44	78	(56-110)			4.44 mg/Kg	06/27/2009
Fluoranthene	LCS	4.36	98	(64-115)			4.44 mg/Kg	06/27/2009
Pyrene	LCS	4.07	92	(70-123)			4.44 mg/Kg	06/27/2009
Azobenzene	LCS	3.87	87	(54-120)			4.44 mg/Kg	06/27/2009
Butylbenzylphthalate	LCS	3.42	77	(69-120)			4.44 mg/Kg	06/27/2009
3,3-Dichlorobenzidine	LCS	3.52	79	(49-128)			4.44 mg/Kg	06/27/2009
Benzo(a)Anthracene	LCS	3.80	85	(72-110)			4.44 mg/Kg	06/27/2009
Chrysene	LCS	3.67	83	(72-110)			4.44 mg/Kg	06/27/2009
bis(2-Ethylhexyl)phthalate	LCS	3.16	71	(62-120)			4.44 mg/Kg	06/27/2009

SGS Ref.#	904052	Lab Control Sample	**Printed Date/Time**	07/21/2009	14:48
			Prep **Batch**	XXX21050	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	06/26/2009	
Matrix	Soil/Solid (dry weight)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
di-n-Octylphthalate	LCS	2.91	66	(61-123)			4.44 mg/Kg	06/27/2009
Benzo[b]Fluoranthene	LCS	3.84	86	(70-115)			4.44 mg/Kg	06/27/2009
Benzo[k]fluoranthene	LCS	3.78	85	(66-125)			4.44 mg/Kg	06/27/2009
Benzo[a]pyrene	LCS	4.20	95	(71-110)			4.44 mg/Kg	06/27/2009
Indeno[1,2,3-c,d] pyrene	LCS	3.98	90	(60-120)			4.44 mg/Kg	06/27/2009
Dibenzo[a,h]anthracene	LCS	3.96	89	(61-125)			4.44 mg/Kg	06/27/2009
Benzo[g,h,i]perylene	LCS	3.91	88	(52-125)			4.44 mg/Kg	06/27/2009
Surrogates								
2-Fluorophenol <surr>	LCS		69	(41-84)				06/27/2009
Phenol-d6 <surr>	LCS		80	(48-94)				06/27/2009
Nitrobenzene-d5 <surr>	LCS		82	(37-100)				06/27/2009
2-Fluorobiphenyl <surr>	LCS		81	(45-105)				06/27/2009
2,4,6-Tribromophenol <surr>	LCS		75	(47-125)				06/27/2009
Terphenyl-d14 <surr>	LCS		76	(50-120)				06/27/2009

Batch	XMS4951
Method	SW8270D
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	904341	Lab Control Sample	**Printed Date/Time**	07/21/2009	14:48
			Prep **Batch**	XXX21054	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	06/29/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877003

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polychlorinated Biphenyls								
Aroclor-1016	LCS	209	94	(58-122)			222 ug/Kg	06/30/2009
Aroclor-1260	LCS	229	103	(61-130)			222 ug/Kg	06/30/2009
Surrogates								
Decachlorobiphenyl <surr>	LCS		102	(60-125)				06/30/2009

Batch	XGC6607
Method	SW8082A
Instrument	HP 6890 Series II ECD SV H F

SGS Ref.#	904524	Lab Control Sample	**Printed Date/Time**	07/21/2009	14:48
			Prep **Batch**	MXX21849	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3050B	
Project Name/#	516.01		**Date**	06/29/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877005

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	43.3	87	(80-120)			50 mg/Kg	07/01/2009
Arsenic	LCS	45.3	91	(80-120)			50 mg/Kg	07/01/2009
Beryllium	LCS	4.41	88	(80-120)			5 mg/Kg	07/01/2009
Cadmium	LCS	4.62	92	(80-120)			5 mg/Kg	07/01/2009
Chromium	LCS	18.1	90	(80-120)			20 mg/Kg	07/01/2009
Copper	LCS	44.5	89	(80-120)			50 mg/Kg	07/01/2009
Lead	LCS	43.6	87	(80-120)			50 mg/Kg	07/01/2009
Molybdenum	LCS	17.6	88	(80-120)			20 mg/Kg	07/01/2009
Nickel	LCS	44.3	89	(80-120)			50 mg/Kg	07/01/2009
Selenium	LCS	45.9	92	(80-120)			50 mg/Kg	07/01/2009
Silver	LCS	4.95	99	(80-120)			5 mg/Kg	07/01/2009
Thallium	LCS	0.445	89	(80-120)			0.5 mg/Kg	07/01/2009
Zinc	LCS	44.6	89	(80-120)			50 mg/Kg	07/01/2009

Batch	MMS5962
Method	SW6020
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	904053	Matrix Spike	**Printed Date/Time**		07/21/2009 14:48
	904054	Matrix Spike Duplicate	**Prep**	**Batch**	XXX21050
				Method	Sonication Extraction Soil SW8
				Date	06/26/2009
Original	1093024002				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:
1092877002

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Semivolatile Organic GC/MS											
N-Nitrosodimethylamine	MS	ND		4.03	78	(45-90)			5.15	mg/Kg	06/27/2009
	MSD			4.60	90		13	(< 30)	5.12	mg/Kg	06/27/2009
Aniline	MS	ND		4.34	84	(40-92)			5.15	mg/Kg	06/27/2009
	MSD			4.87	95*		12	(< 30)	5.12	mg/Kg	06/27/2009
Phenol	MS	ND		3.90	76	(56-97)			5.15	mg/Kg	06/27/2009
	MSD			4.35	85		11	(< 30)	5.12	mg/Kg	06/27/2009
Bis(2-Chloroethyl)ether	MS	ND		4.02	78	(49-91)			5.15	mg/Kg	06/27/2009
	MSD			4.40	86		9	(< 30)	5.12	mg/Kg	06/27/2009
2-Chlorophenol	MS	ND		3.43	67	(56-94)			5.15	mg/Kg	06/27/2009
	MSD			3.75	73		9	(< 30)	5.12	mg/Kg	06/27/2009
1,3-Dichlorobenzene	MS	ND		3.43	67	(52-92)			5.15	mg/Kg	06/27/2009
	MSD			3.75	73		9	(< 30)	5.12	mg/Kg	06/27/2009
1,4-Dichlorobenzene	MS	ND		3.36	65	(51-92)			5.15	mg/Kg	06/27/2009
	MSD			3.69	72		9	(< 30)	5.12	mg/Kg	06/27/2009
Benzyl alcohol	MS	ND		4.42	86	(61-110)			5.15	mg/Kg	06/27/2009
	MSD			4.95	97		11	(< 30)	5.12	mg/Kg	06/27/2009
1,2-Dichlorobenzene	MS	ND		3.48	68	(52-92)			5.15	mg/Kg	06/27/2009
	MSD			3.82	75		9	(< 30)	5.12	mg/Kg	06/27/2009
2-Methylphenol (o-Cresol)	MS	ND		3.86	75	(61-101)			5.15	mg/Kg	06/27/2009
	MSD			4.32	84		11	(< 30)	5.12	mg/Kg	06/27/2009
Bis(2chloro1methylethyl)Ether	MS	ND		5.08	99*	(50-97)			5.15	mg/Kg	06/27/2009
	MSD			5.51	107*		8	(< 30)	5.12	mg/Kg	06/27/2009
3&4-Methylphenol (p&m-Cres	MS	ND		5.77	80	(65-105)			7.21	mg/Kg	06/27/2009
	MSD			6.47	90		11	(< 30)	7.17	mg/Kg	06/27/2009
N-Nitroso-di-n-propylamine	MS	ND		3.75	73	(59-100)			5.15	mg/Kg	06/27/2009
	MSD			4.23	83		12	(< 30)	5.12	mg/Kg	06/27/2009
Hexachloroethane	MS	ND		3.33	65	(51-89)			5.15	mg/Kg	06/27/2009
	MSD			3.62	71		9	(< 30)	5.12	mg/Kg	06/27/2009
Nitrobenzene	MS	ND		4.33	84	(53-99)			5.15	mg/Kg	06/27/2009
	MSD			4.80	94		10	(< 30)	5.12	mg/Kg	06/27/2009
Isophorone	MS	ND		4.67	91	(57-108)			5.15	mg/Kg	06/27/2009
	MSD			5.19	101		11	(< 30)	5.12	mg/Kg	06/27/2009
2-Nitrophenol	MS	ND		4.05	79	(65-101)			5.15	mg/Kg	06/27/2009
	MSD			4.42	86		9	(< 30)	5.12	mg/Kg	06/27/2009
2,4-Dimethylphenol	MS	ND		4.70	91	(63-105)			5.15	mg/Kg	06/27/2009
	MSD			5.30	103		12	(< 30)	5.12	mg/Kg	06/27/2009
Benzoic acid	MS	ND		7.45	103*	(25-76)			7.21	mg/Kg	06/27/2009

SGS

SGS Ref.#	904053	Matrix Spike	**Printed Date/Time**	07/21/2009 14:48
	904054	Matrix Spike Duplicate	**Prep** **Batch**	XXX21050
			Method	Sonication Extraction Soil SW8
			Date	06/26/2009
Original	1093024002			
Matrix	Soil/Solid (dry weight)			

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
	MSD		7.86	110*		5	(< 30)	7.17 mg/Kg	06/27/2009
Bis(2-Chloroethoxy)methane	MS	ND	4.58	89	(57-104)			5.15 mg/Kg	06/27/2009
	MSD		5.05	99		10	(< 30)	5.12 mg/Kg	06/27/2009
1,2,4-Trichlorobenzene	MS	ND	4.49	87	(54-101)			5.15 mg/Kg	06/27/2009
	MSD		4.91	96		9	(< 30)	5.12 mg/Kg	06/27/2009
Naphthalene	MS	ND	3.66	71	(51-105)			5.15 mg/Kg	06/27/2009
	MSD		3.98	78		9	(< 30)	5.12 mg/Kg	06/27/2009
4-Chloroaniline	MS	ND	4.03	78	(58-102)			5.15 mg/Kg	06/27/2009
	MSD		4.54	89		12	(< 30)	5.12 mg/Kg	06/27/2009
Hexachlorobutadiene	MS	ND	4.90	95	(57-107)			5.15 mg/Kg	06/27/2009
	MSD		5.39	105		10	(< 30)	5.12 mg/Kg	06/27/2009
4-Chloro-3-methylphenol	MS	ND	4.87	95	(69-114)			5.15 mg/Kg	06/27/2009
	MSD		5.27	103		8	(< 30)	5.12 mg/Kg	06/27/2009
2,4-Dichlorophenol	MS	ND	4.60	89	(64-107)			5.15 mg/Kg	06/27/2009
	MSD		5.05	99		9	(< 30)	5.12 mg/Kg	06/27/2009
2-Methylnaphthalene	MS	ND	4.24	82	(61-105)			5.15 mg/Kg	06/27/2009
	MSD		4.77	93		12	(< 30)	5.12 mg/Kg	06/27/2009
Hexachlorocyclopentadiene	MS	ND	4.40	85	(35-102)			5.15 mg/Kg	06/27/2009
	MSD		4.85	95		10	(< 30)	5.12 mg/Kg	06/27/2009
2,4,6-Trichlorophenol	MS	ND	5.33	104	(67-110)			5.15 mg/Kg	06/27/2009
	MSD		5.80	113*		8	(< 30)	5.12 mg/Kg	06/27/2009
2,4,5-Trichlorophenol	MS	ND	5.24	102	(71-110)			5.15 mg/Kg	06/27/2009
	MSD		5.70	111*		9	(< 30)	5.12 mg/Kg	06/27/2009
2-Chloronaphthalene	MS	ND	3.85	75	(52-103)			5.15 mg/Kg	06/27/2009
	MSD		4.24	83		10	(< 30)	5.12 mg/Kg	06/27/2009
2-Nitroaniline	MS	ND	4.45	86	(70-120)			5.15 mg/Kg	06/27/2009
	MSD		4.64	91		4	(< 30)	5.12 mg/Kg	06/27/2009
Dimethylphthalate	MS	ND	4.74	92	(59-110)			5.15 mg/Kg	06/27/2009
	MSD		4.87	95		3	(< 30)	5.12 mg/Kg	06/27/2009
Acenaphthylene	MS	ND	4.13	80	(56-105)			5.15 mg/Kg	06/27/2009
	MSD		4.46	87		8	(< 30)	5.12 mg/Kg	06/27/2009
2,6-Dinitrotoluene	MS	ND	5.06	98	(67-110)			5.15 mg/Kg	06/27/2009
	MSD		5.25	102		4	(< 30)	5.12 mg/Kg	06/27/2009
3-Nitroaniline	MS	ND	4.49	87	(66-110)			5.15 mg/Kg	06/27/2009
	MSD		4.66	91		4	(< 30)	5.12 mg/Kg	06/27/2009
Acenaphthene	MS	ND	4.30	84	(57-110)			5.15 mg/Kg	06/27/2009
	MSD		4.60	90		7	(< 30)	5.12 mg/Kg	06/27/2009
2,4-Dinitrophenol	MS	ND	9.97	108	(43-130)			9.27 mg/Kg	06/27/2009
	MSD		10.1	110		2	(< 30)	9.22 mg/Kg	06/27/2009
4-Nitrophenol	MS	ND	8.16	113	(44-137)			7.25 mg/Kg	06/27/2009

SGS

SGS Ref.#	904053	Matrix Spike	**Printed Date/Time**	07/21/2009 14:48
	904054	Matrix Spike Duplicate	**Prep** **Batch**	XXX21050
			Method	Sonication Extraction Soil SW8
			Date	06/26/2009
Original	1093024002			
Matrix	Soil/Solid (dry weight)			

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
	MSD		8.24	115		1	(< 30)	7.17 mg/Kg	06/27/2009
Dibenzofuran	MS	ND	4.56	89	(60-105)			5.15 mg/Kg	06/27/2009
	MSD		4.85	95		6	(< 30)	5.12 mg/Kg	06/27/2009
2,4-Dinitrotoluene	MS	ND	5.10	99	(64-115)			5.15 mg/Kg	06/27/2009
	MSD		5.11	100		0	(< 30)	5.12 mg/Kg	06/27/2009
Diethylphthalate	MS	ND	4.59	89	(50-115)			5.15 mg/Kg	06/27/2009
	MSD		4.62	90		1	(< 30)	5.12 mg/Kg	06/27/2009
4-Chlorophenyl-phenylether	MS	ND	5.40	105	(53-110)			5.15 mg/Kg	06/27/2009
	MSD		5.58	109		3	(< 30)	5.12 mg/Kg	06/27/2009
Fluorene	MS	ND	4.74	92	(64-110)			5.15 mg/Kg	06/27/2009
	MSD		4.94	96		4	(< 30)	5.12 mg/Kg	06/27/2009
4-Nitroaniline	MS	ND	4.62	90	(63-115)			5.15 mg/Kg	06/27/2009
	MSD		4.67	91		1	(< 30)	5.12 mg/Kg	06/27/2009
2-Methyl-4,6-dinitrophenol	MS	ND	9.52	103	(51-131)			9.27 mg/Kg	06/27/2009
	MSD		9.46	103		1	(< 30)	9.22 mg/Kg	06/27/2009
N-Nitrosodiphenylamine	MS	ND	4.40	85	(61-114)			5.15 mg/Kg	06/27/2009
	MSD		4.49	88		2	(< 30)	5.12 mg/Kg	06/27/2009
4-Bromophenyl-phenylether	MS	ND	4.35	85	(53-102)			5.15 mg/Kg	06/27/2009
	MSD		4.58	89		5	(< 30)	5.12 mg/Kg	06/27/2009
Hexachlorobenzene	MS	ND	4.64	90	(63-120)			5.15 mg/Kg	06/27/2009
	MSD		4.61	90		1	(< 30)	5.12 mg/Kg	06/27/2009
Pentachlorophenol	MS	ND	6.97	97	(56-117)			7.21 mg/Kg	06/27/2009
	MSD		6.96	97		0	(< 30)	7.17 mg/Kg	06/27/2009
Phenanthrene	MS	ND	4.75	92	(63-110)			5.15 mg/Kg	06/27/2009
	MSD		4.76	93		0	(< 30)	5.12 mg/Kg	06/27/2009
Anthracene	MS	ND	4.77	93	(65-105)			5.15 mg/Kg	06/27/2009
	MSD		4.77	93		0	(< 30)	5.12 mg/Kg	06/27/2009
Di-n-butylphthalate	MS	ND	4.20	82	(56-110)			5.15 mg/Kg	06/27/2009
	MSD		4.12	80		2	(< 30)	5.12 mg/Kg	06/27/2009
Fluoranthene	MS	ND	5.18	101	(64-115)			5.15 mg/Kg	06/27/2009
	MSD		5.17	101		0	(< 30)	5.12 mg/Kg	06/27/2009
Pyrene	MS	ND	4.68	91	(70-123)			5.15 mg/Kg	06/27/2009
	MSD		4.62	90		1	(< 30)	5.12 mg/Kg	06/27/2009
Azobenzene	MS	ND	4.45	86	(54-120)			5.15 mg/Kg	06/27/2009
	MSD		4.55	89		2	(< 30)	5.12 mg/Kg	06/27/2009
Butylbenzylphthalate	MS	ND	3.96	77	(69-120)			5.15 mg/Kg	06/27/2009
	MSD		3.90	76		2	(< 30)	5.12 mg/Kg	06/27/2009
3,3-Dichlorobenzidine	MS	ND	4.41	86	(49-128)			5.15 mg/Kg	06/27/2009
	MSD		4.58	89		4	(< 30)	5.12 mg/Kg	06/27/2009
Benzo(a)Anthracene	MS	ND	4.51	87	(72-110)			5.15 mg/Kg	06/27/2009

SGS Ref.#	904053	Matrix Spike	**Printed Date/Time**	07/21/2009	14:48
	904054	Matrix Spike Duplicate	**Prep** **Batch**	XXX21050	
			Method	Sonication Extraction Soil SW8	
			Date	06/26/2009	
Original	1093024002				
Matrix	Soil/Solid (dry weight)				

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
	MSD		4.44	87		1	(< 30)	5.12 mg/Kg	06/27/2009
Chrysene	MS	ND	4.24	82	(72-110)			5.15 mg/Kg	06/27/2009
	MSD		4.21	82		0	(< 30)	5.12 mg/Kg	06/27/2009
bis(2-Ethylhexyl)phthalate	MS	ND	3.77	73	(62-120)			5.15 mg/Kg	06/27/2009
	MSD		3.68	72		3	(< 30)	5.12 mg/Kg	06/27/2009
di-n-Octylphthalate	MS	ND	3.35	65	(61-123)			5.15 mg/Kg	06/27/2009
	MSD		3.34	65		0	(< 30)	5.12 mg/Kg	06/27/2009
Benzo[b]Fluoranthene	MS	ND	4.42	86	(70-115)			5.15 mg/Kg	06/27/2009
	MSD		4.34	85		2	(< 30)	5.12 mg/Kg	06/27/2009
Benzo[k]fluoranthene	MS	ND	4.75	92	(66-125)			5.15 mg/Kg	06/27/2009
	MSD		4.81	94		1	(< 30)	5.12 mg/Kg	06/27/2009
Benzo[a]pyrene	MS	ND	5.03	98	(71-110)			5.15 mg/Kg	06/27/2009
	MSD		4.98	97		1	(< 30)	5.12 mg/Kg	06/27/2009
Indeno[1,2,3-c,d] pyrene	MS	ND	4.55	88	(60-120)			5.15 mg/Kg	06/27/2009
	MSD		4.49	88		1	(< 30)	5.12 mg/Kg	06/27/2009
Dibenzo[a,h]anthracene	MS	ND	4.52	88	(61-125)			5.15 mg/Kg	06/27/2009
	MSD		4.49	88		1	(< 30)	5.12 mg/Kg	06/27/2009
Benzo[g,h,i]perylene	MS	ND	4.41	86	(52-125)			5.15 mg/Kg	06/27/2009
	MSD		4.41	86		0	(< 30)	5.12 mg/Kg	06/27/2009
Surrogates									
2-Fluorophenol <surr>	MS		6.10	59	(41-84)				06/27/2009
	MSD		6.72	66		10			06/27/2009
Phenol-d6 <surr>	MS		7.42	72	(48-94)				06/27/2009
	MSD		8.20	80		10			06/27/2009
Nitrobenzene-d5 <surr>	MS		3.78	73	(37-100)				06/27/2009
	MSD		4.13	81		9			06/27/2009
2-Fluorobiphenyl <surr>	MS		3.74	73	(45-105)				06/27/2009
	MSD		4.10	80		9			06/27/2009
2,4,6-Tribromophenol <surr>	MS		7.88	77	(47-125)				06/27/2009
	MSD		8.09	79		3			06/27/2009
Terphenyl-d14 <surr>	MS		3.93	76	(50-120)				06/27/2009
	MSD		3.85	75		2			06/27/2009

Batch	XMS4951
Method	SW8270D
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	904525	Matrix Spike	**Printed Date/Time**		07/21/2009 14:48
	904526	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21849
				Method	Soils/Solids Digest for Metals b
				Date	06/29/2009
Original	1092991001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS											
Arsenic		MS	1.22	55.0	93	(80-120)			57.7	mg/Kg	07/01/2009
		MSD		55.9	94		1	(< 20)	58.4	mg/Kg	07/01/2009
Cadmium		MS	ND	6.12	106	(80-120)			5.77	mg/Kg	07/01/2009
		MSD		6.15	105		1	(< 20)	5.84	mg/Kg	07/01/2009
Chromium		MS	59.2	111	226*	(80-120)			23.1	mg/Kg	07/01/2009
		MSD		110	219*		1	(< 20)	23.3	mg/Kg	07/01/2009
Lead		MS	1.73	54.1	91	(80-120)			57.7	mg/Kg	07/01/2009
		MSD		54.3	90		0	(< 20)	58.4	mg/Kg	07/01/2009
Nickel		MS	155	216	107	(80-120)			57.7	mg/Kg	07/01/2009
		MSD		216	104		0	(< 20)	58.4	mg/Kg	07/01/2009

Batch MMS5962
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	904527	Bench Spike DIGESTED	**Printed Date/Time**		07/21/2009 14:48
			Prep	**Batch**	MXX21849
				Method	Soils/Solids Digest for Metals b
				Date	06/29/2009
Original	1092991001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1092877005

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Chromium	BND	59.2	210	102	(75-125)			147	mg/Kg	07/01/2009

Batch MMS5962
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:**250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09DXN003	Sludge ✓	1	6/23/9	0912		1A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/9 1030	hand	G. Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8270C. **Report using EPA 625 analyte list.** Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09SVL003	Sludge ✓	1	6/23/9	0912		2A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/9 1030	hand	G. Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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, 4°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES004	Sludge	~~1~~ 2	6/23/9	0912		3 A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092877

REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **ANALYSIS TYPE**: EPA 8260. **Report using EPA 624 analyte list.** Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4° C	Type of Container: 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP019	Sludge	1	6/23/9	0912		~~5~~ A 4 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
MWS	6/24/9 1030	hand	G Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
G Lawley	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.01

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 (4500CN C,E), and percent solids (SM18 2540G). Detection limit 0.3 µg/g (dry weight). Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET003	Sludge	1	6/23/9	0912		5A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/9 1030	hand	G. Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

SGS

1092877

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1	A	2	Dioxin					1					✓							✓									
2	A	2	8270 SVOC					1					✓							✓									
3	A		~~8081~~ JJ 8082					1												✓									
	B		8081					1												✓									
4	A		8260 inhouse/Reflab						1				✓					✓		✓									
5	A		metals / ~~TSS~~ JJ %					1					✓							✓									
	B		CN					1					✓							✓									
6	A		8260		✓				1				✓					✓						✓					
7	A		~~abs~~ JJ asbestos						1				✓							✓									
			Bottle Totals					6	3																				

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 6/25/09

Form # F004r20 revised 05/05/2009

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

Report Number: G552-608

Client Project: KLI - AWWU (KLI#516.01)

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 Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America, Inc.

Barbara Hager July 9. 2009

Project Manager Date
Barbara Hager

Case Narrative
SGS Project: **G552-608**
Project Name: **KLI AWWU (KLI#516.01)**

For Method: 8280A

- Two water samples were accepted into the laboratory on June 26th, 2009 at 1100 for analysis of VOC by 8260 for 624 compound list and Dioxins by method 8280A. The samples were received in good condition, with a temperature of 5.9°C.
- The sample for Dioxins was extracted on July 2nd, 2009 by method 3540C. The sample extract and associated QC extracts were then processed through clean-up as prescribed in the SGS standard operating procedures and analyzed by GC/MS for method 8280A.
- All extractions and analyses were completed within holding time limits and without quality control exceptions.
- No analytical issues were encountered.

Tamara Morgan 7-10-09
Tamara Morgan Date
Data Validation

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).

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

UJ = Target analytes with recoveries that are 10% < %R < LCL; # of MEs are allowable and compounds are not detected in the sample.

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:
1) Metals and mercury samples are digested with a hot block; see the standard operating procedure document for details.
2) Uncertainty for all reported data is less than or equal to 30 percent.

SGS Environmental Services

Method 8280

MOA09DXN003

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	341.00				

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	41.3	82.6	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.2	92.8	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

Client Information

Project Name:	KLI - AWWU (KLI#516.01)
Sample ID:	MOA09DXN003

Laboratory Information

Project ID:	G552-608	
Sample ID:	G552-608-1B	
Collection Date/Time:	23-Jun-09	09:12
Receipt Date:	26-Jun-09	11:00
Extraction Date:	02-Jul-09	
Analysis Date:	07-Jul-09	11:22

Sample Information

Matrix:	Sludge	
Weight / Volume:	10.51	Grams
Solids / Lipids:	27.9	%
Original pH :	NA	
Batch ID:	WG17178	
Filename:	0707507	
Retchk:	0707501	
Begin ConCal:	0707502	
End ConCal:	0707513	
Initial Cal:	m8280-5061509	

Analyzed by: DS
Date: 7-9-09

Reviewed by: TM
Date: 7-9-09

SGS Environmental Services

Method 8280LMB
LMB
Lab

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	100.00				

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	40.8	81.6	26:46	0.78	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.1	84.4	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

Sample Information

Report Basis:	Dry Weight	
Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100.0	%
Original pH :	NA	
Batch ID:	WG17178	

Laboratory Information

Sample ID:	LMB17178		Filename:	0707506
			Retchk:	0707501
		8:00	Begin ConCal:	0707502
Extraction Date:	02-Jul-09		End ConCal:	0707513
Analysis Date:	07-Jul-09	10:40	Initial Cal:	m8280-5061509

Analyzed by: DS
Date: 7-9-09

Reviewed by: TM
Date: 7-9-09

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	1010	101	70.0	130	

QC Information		**File Information**	
OPR Project No:	OPR17178	OPR Filename :	0707504
Extraction Date:	02-Jul-09	Retchk:	0707501
Analysis Date:	07-Jul-09	Begin ConCal:	0707502
Method:	8280	End ConCal:	0707513
		Initial Cal:	m8280-5061509
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	45.7	91.4	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.6	94.4	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

QC Information

OPR Project No:	OPR17178
Extraction Date:	02-Jul-09
Analysis Date:	07-Jul-09
Method:	8280

File Information

OPR Filename :	0707504
Retchk:	0707501
Begin ConCal:	0707502
End ConCal:	0707513
Initial Cal:	m8280-5061509

Sample Information

Matrix: Soil

Analyzed by: DS
Date: 7-9-09

Reviewed by: TM
Date: 7-9-09

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	1040	104		70.0	130	101		2.93		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No:	OPRD17178
Extraction Date:	02-Jul-09
Analysis Date:	07-Jul-09
Method:	8280

Sample Information

Matrix:	Soil

File Information

OPRD Filename :	0707505
Retchk:	0707501
Begin ConCal:	0707502
End ConCal:	0707513
Initial Cal:	m8280-5061509

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	43.5	87.0	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	23.2	92.8	26:47	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.79	

QC Information

OPRD Project No: OPRD17178
Extraction Date: 02-Jul-09
Analysis Date: 07-Jul-09
Method: 8280

File Information

OPRD Filename : 0707505
Retchk: 0707501
Begin ConCal: 0707502
End ConCal: 0707513
Initial Cal: m8280-5061509

Sample Information

Matrix: Soil

Analyzed by: DS
Date: 7-9-09

Reviewed by: TM
Date: 7-9-09

Results for Volatiles
by GCMS 624/5030

Client Sample ID: MOA09VOP019
Client Project ID: KLI - AWWU (KLI#516.01)
Lab Sample ID: G552-608-2A
Lab Project ID: G552-608
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 6/23/2009 9:12
Date Received: 6/26/2009
Matrix: Sludge
Sample Amount: 75.1 g
%Solids: 17.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	52800	3430	10000	7/7/2009	
Bromodichloromethane	BQL	52800	4010	10000	7/7/2009	
Bromoform	BQL	52800	6330	10000	7/7/2009	
Bromomethane	BQL	52800	7020	10000	7/7/2009	
Carbon tetrachloride	BQL	52800	4590	10000	7/7/2009	
Chlorobenzene	BQL	52800	4330	10000	7/7/2009	
Chloroethane	BQL	52800	5590	10000	7/7/2009	
2-Chloroethyl vinyl ether	BQL	660000	159000	10000	7/7/2009	
Chloroform	BQL	52800	4170	10000	7/7/2009	
Chloromethane	BQL	52800	7710	10000	7/7/2009	
Dibromochloromethane	BQL	52800	4750	10000	7/7/2009	
1,2-Dichlorobenzene	BQL	52800	6700	10000	7/7/2009	
1,3-Dichlorobenzene	BQL	52800	4270	10000	7/7/2009	
1,4-Dichlorobenzene	BQL	52800	4170	10000	7/7/2009	
1,1-Dichloroethane	BQL	52800	3910	10000	7/7/2009	
1,1-Dichloroethene	BQL	52800	4700	10000	7/7/2009	
1,2-Dichloroethane	BQL	52800	4170	10000	7/7/2009	
trans-1,2-dichloroethene	BQL	52800	4700	10000	7/7/2009	
1,2-Dichloropropane	BQL	52800	4960	10000	7/7/2009	
cis-1,3-Dichloropropene	BQL	52800	4010	10000	7/7/2009	
trans-1,3-Dichloropropene	BQL	52800	4010	10000	7/7/2009	
Diisopropyl ether (DIPE)	BQL	52800	3850	10000	7/7/2009	
Ethylbenzene	BQL	52800	4060	10000	7/7/2009	
Methylene chloride	BQL	264000	5170	10000	7/7/2009	
Methyl-tert-butyl ether (MTBE)	BQL	52800	3540	10000	7/7/2009	
1,1,2,2-Tetrachloroethane	BQL	52800	6070	10000	7/7/2009	
Tetrachloroethene	BQL	52800	3640	10000	7/7/2009	
Toluene	BQL	52800	4010	10000	7/7/2009	
Trichloroethene	BQL	52800	2850	10000	7/7/2009	
1,1,1-Trichloroethane	BQL	52800	2850	10000	7/7/2009	
1,1,2-Trichloroethane	BQL	52800	9600	10000	7/7/2009	
Trichlorofluoromethane	BQL	52800	5860	10000	7/7/2009	
Vinyl chloride	BQL	52800	7860	10000	7/7/2009	
m-,p-Xylene	BQL	106000	5170	10000	7/7/2009	
o-Xylene	BQL	52800	3430	10000	7/7/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10	100
Toluene-d8	10	8.97	90
4-Bromofluorobenzene	10	9.21	92

Comments:
Sample diluted for matrix.
Flags:

Results for Volatiles
by GCMS 624/5030

Client Sample ID: MOA09VOP019
Client Project ID: KLI - AWWU (KLI#516.01)
Lab Sample ID: G552-608-2A
Lab Project ID: G552-608
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 6/23/2009 9:12
Date Received: 6/26/2009
Matrix: Sludge
Sample Amount: 75.1 g
%Solids: 17.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag

BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624/5035

Client Sample ID: Trip Blank
Client Project ID: KLI - AWWU (KLI#516.01)
Lab Sample ID: G552-608-3A
Lab Project ID: G552-608
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 6/23/2009 9:12
Date Received: 6/26/2009
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	50.0	3.25	50	7/6/2009	
Bromodichloromethane	BQL	50.0	3.80	50	7/6/2009	
Bromoform	BQL	50.0	6.00	50	7/6/2009	
Bromomethane	BQL	50.0	6.65	50	7/6/2009	
Carbon tetrachloride	BQL	50.0	4.35	50	7/6/2009	
Chlorobenzene	BQL	50.0	4.10	50	7/6/2009	
Chloroethane	BQL	50.0	5.30	50	7/6/2009	
2-Chloroethyl vinyl ether	BQL	625	151	50	7/6/2009	
Chloroform	BQL	50.0	3.95	50	7/6/2009	
Chloromethane	BQL	50.0	7.30	50	7/6/2009	
Dibromochloromethane	BQL	50.0	4.50	50	7/6/2009	
1,2-Dichlorobenzene	BQL	50.0	6.35	50	7/6/2009	
1,3-Dichlorobenzene	BQL	50.0	4.05	50	7/6/2009	
1,4-Dichlorobenzene	BQL	50.0	3.95	50	7/6/2009	
1,1-Dichloroethane	BQL	50.0	3.70	50	7/6/2009	
1,1-Dichloroethene	BQL	50.0	4.45	50	7/6/2009	
1,2-Dichloroethane	BQL	50.0	3.95	50	7/6/2009	
trans-1,2-dichloroethene	BQL	50.0	4.45	50	7/6/2009	
1,2-Dichloropropane	BQL	50.0	4.70	50	7/6/2009	
cis-1,3-Dichloropropene	BQL	50.0	3.80	50	7/6/2009	
trans-1,3-Dichloropropene	BQL	50.0	3.80	50	7/6/2009	
Diisopropyl ether (DIPE)	BQL	50.0	3.65	50	7/6/2009	
Ethylbenzene	BQL	50.0	3.85	50	7/6/2009	
Methylene chloride	BQL	250	4.90	50	7/6/2009	
Methyl-tert-butyl ether (MTBE)	BQL	50.0	3.35	50	7/6/2009	
1,1,2,2-Tetrachloroethane	BQL	50.0	5.75	50	7/6/2009	
Tetrachloroethene	BQL	50.0	3.45	50	7/6/2009	
Toluene	**10.5**	50.0	3.80	50	7/6/2009	J
Trichloroethene	BQL	50.0	2.70	50	7/6/2009	
1,1,1-Trichloroethane	BQL	50.0	2.70	50	7/6/2009	
1,1,2-Trichloroethane	BQL	50.0	9.10	50	7/6/2009	
Trichlorofluoromethane	BQL	50.0	5.55	50	7/6/2009	
Vinyl chloride	BQL	50.0	7.45	50	7/6/2009	
m-,p-Xylene	BQL	100	4.90	50	7/6/2009	
o-Xylene	BQL	50.0	3.25	50	7/6/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	8.83	88
Toluene-d8	10	10.3	103
4-Bromofluorobenzene	60	47.5	79

Comments:

Flags:

Results for Volatiles
by GCMS 624/5035

Client Sample ID: Trip Blank
Client Project ID: KLI - AWWU (KLI#516.01)
Lab Sample ID: G552-608-3A
Lab Project ID: G552-608
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected: 6/23/2009 9:12
Date Received: 6/26/2009
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Analyst: _____

Reviewed By: _____

Results for Volatiles
by GCMS 624/5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070609B
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	50.0	3.25	50	7/6/2009	
Bromodichloromethane	BQL	50.0	3.80	50	7/6/2009	
Bromoform	BQL	50.0	6.00	50	7/6/2009	
Bromomethane	BQL	50.0	6.65	50	7/6/2009	
Carbon tetrachloride	BQL	50.0	4.35	50	7/6/2009	
Chlorobenzene	BQL	50.0	4.10	50	7/6/2009	
Chloroethane	BQL	50.0	5.30	50	7/6/2009	
2-Chloroethyl vinyl ether	BQL	625	151	50	7/6/2009	
Chloroform	BQL	50.0	3.95	50	7/6/2009	
Chloromethane	BQL	50.0	7.30	50	7/6/2009	
Dibromochloromethane	BQL	50.0	4.50	50	7/6/2009	
1,2-Dichlorobenzene	BQL	50.0	6.35	50	7/6/2009	
1,3-Dichlorobenzene	BQL	50.0	4.05	50	7/6/2009	
1,4-Dichlorobenzene	BQL	50.0	3.95	50	7/6/2009	
1,1-Dichloroethane	BQL	50.0	3.70	50	7/6/2009	
1,1-Dichloroethene	BQL	50.0	4.45	50	7/6/2009	
1,2-Dichloroethane	BQL	50.0	3.95	50	7/6/2009	
trans-1,2-dichloroethene	BQL	50.0	4.45	50	7/6/2009	
1,2-Dichloropropane	BQL	50.0	4.70	50	7/6/2009	
cis-1,3-Dichloropropene	BQL	50.0	3.80	50	7/6/2009	
trans-1,3-Dichloropropene	BQL	50.0	3.80	50	7/6/2009	
Diisopropyl ether (DIPE)	BQL	50.0	3.65	50	7/6/2009	
Ethylbenzene	BQL	50.0	3.85	50	7/6/2009	
Methylene chloride	BQL	250	4.90	50	7/6/2009	
Methyl-tert-butyl ether (MTBE)	BQL	50.0	3.35	50	7/6/2009	
1,1,2,2-Tetrachloroethane	BQL	50.0	5.75	50	7/6/2009	
Tetrachloroethene	BQL	50.0	3.45	50	7/6/2009	
Toluene	BQL	50.0	3.80	50	7/6/2009	
Trichloroethene	BQL	50.0	2.70	50	7/6/2009	
1,1,1-Trichloroethane	BQL	50.0	2.70	50	7/6/2009	
1,1,2-Trichloroethane	BQL	50.0	9.10	50	7/6/2009	
Trichlorofluoromethane	BQL	50.0	5.55	50	7/6/2009	
Vinyl chloride	BQL	50.0	7.45	50	7/6/2009	
m-,p-Xylene	BQL	100	4.90	50	7/6/2009	
o-Xylene	BQL	50.0	3.25	50	7/6/2009	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	10	10.1	101
Toluene-d8	10	9.76	98
4-Bromofluorobenzene	10	9.69	97

Comments:

Flags:

Results for Volatiles
by GCMS 624/5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK8070609B
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Soil
Sample Amount: 5 g
%Solids: 100.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag

BQL = Below Quantitation Limits.

Analyst: _____

Reviewed By: _____

SGS Environmental Sevices

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Dilution: 50

Lab Code: NC00919 — Matrix: Soil (medium

LCS: LCS8070609A — Filename: 0706816.D — Date Analyzed: 07/06/09 15:01

LCSD: LCS8070609B — Filename: 0706817.D — Date Analyzed: 07/06/09 15:31

COMPOUND	LCS SPIKE (µg/kg)	LCS CONC (µg/kg)	LCS % REC #	LCSD SPIKE (µg/kg)	LCSD CONC (µg/kg)	LCSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	1250	1200	95.7	1250	1190	95.2	0.461	30	70.0-130
acrolein	6250	7360	118	6250	7540	121	2.44	30	70.0-130
acrylonitrile	6250	6650	106	6250	6900	110	3.69	30	70.0-130
benzene	250	238	95.2	250	235	94.2	1.06	30	70.0-130
bromobenzene	250	238	95.2	250	238	95.4	0.210	30	70.0-130
bromochloromethane	250	242	96.8	250	239	95.6	1.25	30	70.0-130
bromodichloromethane	250	231	92.4	250	267	107	14.4	30	70.0-130
bromoform	250	244	97.6	250	250	99.8	2.23	30	70.0-130
bromomethane	250	306	122	250	315	126	3.06	30	70.0-130
2-butanone	1250	1260	100	1250	1270	101	0.911	30	70.0-130
n-butylbenzene	250	217	86.8	250	222	88.8	2.28	30	70.0-130
sec-butylbenzene	250	221	88.6	250	224	89.6	1.12	30	70.0-130
tert-butylbenzene	250	222	89.0	250	226	90.2	1.34	30	70.0-130
Carbon disulfide	250	221	88.6	250	214	85.4	3.68	30	70.0-130
carbon tetrachloride	250	235	94.2	250	234	93.6	0.639	30	70.0-130
chlorobenzene	250	234	93.6	250	232	92.6	1.07	30	70.0-130
chloroethane	250	253	101	250	256	103	1.37	30	70.0-130
2-chloroethyl vinyl ether	6250	7040	113	6250	7570	121	7.27	30	70.0-130
chloroform	250	238	95.2	250	236	94.4	0.844	30	70.0-130
chloromethane	250	254	102	250	246	98.4	3.40	30	70.0-130
2-chlorotoluene	250	230	91.8	250	237	94.8	3.22	30	70.0-130
4-chlorotoluene	250	222	89.0	250	232	92.6	3.96	30	70.0-130
dibromochloromethane	250	250	100	250	238	95.4	4.91	30	70.0-130
1,2-dibromo-3-chloropropane	1250	1190	95.3	1250	1160	93.0	2.42	30	70.0-130
1,2-dibromoethane	250	247	98.8	250	241	96.6	2.25	30	70.0-130
dibromomethane	250	235	94.2	250	262	105	10.6	30	70.0-130
1,2-dichlorobenzene	250	232	92.6	250	234	93.6	1.07	30	70.0-130
1,3-dichlorobenzene	250	235	94.0	250	238	95.0	1.06	30	70.0-130
1,4-dichlorobenzene	250	238	95.0	250	243	97.2	2.29	30	70.0-130
trans-1,4-Dichloro-2-butene	1250	1140	90.9	1250	1170	93.8	3.08	30	70.0-130
dichlorodifluoromethane	250	247	98.8	250	241	96.6	2.25	30	70.0-130
1,1-dichloroethane	250	239	95.8	250	238	95.0	0.838	30	70.0-130
1,2-dichloroethane	250	246	98.4	250	242	96.8	1.64	30	70.0-130
1,1-dichloroethene	250	252	101	250	238	95.0	6.12	30	70.0-130
cis-1,2-dichloroethene	250	240	96.0	250	234	93.8	2.32	30	70.0-130
trans-1,2-dichloroethene	250	240	96.0	250	234	93.4	2.74	30	70.0-130
1,2-dichloropropane	250	224	89.6	250	254	102	12.6	30	70.0-130
1,3-dichloropropane	250	254	102	250	240	96.2	5.46	30	70.0-130
2,2-dichloropropane	250	241	96.4	250	232	92.8	3.80	30	70.0-130
1,1-dichloropropene	250	242	97.0	250	238	95.0	2.08	30	70.0-130
cis-1,3-dichloropropene	250	232	92.6	250	270	108	15.4	30	70.0-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

SGS Environmental Sevices

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Dilution: 50

Lab Code: NC00919 — Matrix: Soil (medium

LCS: LCS8070609A — Filename: 0706816.D — Date Analyzed: 07/06/09 15:01

LCSD: LCS8070609B — Filename: 0706817.D — Date Analyzed: 07/06/09 15:31

COMPOUND	LCS SPIKE (µg/kg)	LCS CONC (µg/kg)	LCS % REC #	LCSD SPIKE (µg/kg)	LCSD CONC (µg/kg)	LCSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	250	229	91.6	250	215	86.2	6.07	30	70.0-130
Diisopropyl ether	250	240	96.2	250	238	95.4	0.835	30	70.0-130
ethylbenzene	250	234	93.8	250	234	93.6	0.213	30	70.0-130
hexachlorobutadiene	250	221	88.4	250	227	90.8	2.68	30	70.0-130
2-hexanone	1250	1350	108	1250	1320	106	2.21	30	70.0-130
Iodomethane	250	232	92.8	250	234	93.8	1.07	30	70.0-130
isopropylbenzene	250	226	90.6	250	226	90.2	0.442	30	70.0-130
4-isopropyltoluene	250	224	89.4	250	230	91.8	2.65	30	70.0-130
Methyl-tert-butyl ether	250	240	96.2	250	240	96.0	0.208	30	70.0-130
methylene chloride	250	243	97.2	250	232	92.8	4.63	30	70.0-130
4-methyl-2-pentanone	1250	1230	98.8	1250	1330	106	7.18	30	70.0-130
naphthalene	250	211	84.6	250	190	75.8	11.0	30	70.0-130
n-propyl benzene	250	230	91.8	250	234	93.8	2.16	30	70.0-130
styrene	250	222	89.0	250	226	90.6	1.78	30	70.0-130
1,1,1,2-tetrachloroethane	250	243	97.2	250	234	93.6	3.77	30	70.0-130
1,1,2,2-tetrachloroethane	250	254	102	250	257	103	1.17	30	70.0-130
tetrachloroethene	250	241	96.4	250	224	89.6	7.31	30	70.0-130
toluene	250	230	91.8	250	220	88.0	4.23	30	70.0-130
1,2,3-trichlorobenzene	250	221	88.6	250	217	86.8	2.05	30	70.0-130
1,2,4-trichlorobenzene	250	221	88.6	250	184	73.8	18.2	30	70.0-130
1,1,1-trichloroethane	250	239	95.8	250	240	96.2	0.417	30	70.0-130
1,1,2-trichloroethane	250	250	99.8	250	246	98.6	1.21	30	70.0-130
trichloroethene	250	218	87.0	250	254	101	14.9	30	70.0-130
trichlorofluoromethane	250	262	105	250	260	104	0.957	30	70.0-130
1,2,3-trichloropropane	250	255	102	250	256	102	0.391	30	70.0-130
1,2,4-trimethylbenzene	250	226	90.6	250	234	93.4	3.04	30	70.0-130
1,3,5-trimethylbenzene	250	218	87.2	250	224	89.8	2.94	30	70.0-130
Vinyl acetate	625	623	99.7	625	611	97.8	1.94	30	70.0-130
vinyl chloride	250	254	102	250	251	101	1.18	30	70.0-130
m/p-xylene	500	455	91.0	500	455	91.0	0.00	30	70.0-130
o-xylene	250	223	89.2	250	223	89.2	0.00	30	70.0-130

System Monitoring Compound Results

		LCS SPIKE (µg/kg)	LCS CONC (µg/kg)	LCS % REC #	LCSD SPIKE (µg/kg)	LCSD CONC (µg/kg)	LCSD % REC #	QC LIMITS REC
460-00-4	4-Bromofluorobenzene	10	10.06	101	10	9.94	99.4	88.6-113
17060-07-0	1,2-Dichloroethane-d4	10	10.34	103	10	10.47	105	84.6-114
2037-26-5	Toluene-d8	10	9.74	97.4	10	9.59	95.9	87.4-109

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS Spike Recovery: 0 failure(s) out of 72. LCSD Spike Recovery: 0 failure(s) out of 72.

RPD: 0 out of 72 outside of limits

COMMENTS: _____

Analyst: _____ Reviewed by: _____

SGS Environmental Services

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Lab Code: NC00919 Inst: MSD8

	EPA Sample No.:	Amt.	Filenames:	Analysis Dates:	Batch: 8070609
Sample	G128-2403-7a	5 mL	0706830.D	2009-07-06 22:06:00	Dilution: 20
MS	G128-2403-7a	5 mL	0706831.D	2009-07-06 22:37:00	Matrix: Water
MSD	G128-2403-7a	5 mL	0706832.D	2009-07-06 23:07:00	

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	500	425	84.9	500	412	82.5	2.92	30	17.7-85.2
acrolein	BQL	2500	2260	90.5	2500	2320	92.6	2.30	30	0.00-424
acrylonitrile	BQL	2500	2450	98.2	2500	2390	95.5	2.74	30	85.0-175
benzene	BQL	100	99.4	99.4	100	94.4	94.4	5.16	30	61.6-135
bromobenzene	BQL	100	91.2	91.2	100	88.2	88.2	3.34	30	65.1-125
bromochloromethane	BQL	100	97.6	97.6	100	92.0	92.0	5.91	30	75.5-126
bromodichloromethane	BQL	100	101	101	100	99.4	99.4	1.20	30	74.3-123
bromoform	BQL	100	81.4	81.4	100	83.8	83.8	2.90	30	52.3-122
bromomethane	BQL	100	96.4	96.4	100	113	113	16.2	30	10.0-284
2-butanone	BQL	500	437	87.4	500	410	82.0	6.33	30	36.1-107
n-butylbenzene	BQL	100	90.0	90.0	100	84.8	84.8	5.95	30	70.2-124
sec-butylbenzene	BQL	100	93.0	93.0	100	88.6	88.6	4.84	30	62.0-133
tert-butylbenzene	BQL	100	92.8	92.8	100	90.0	90.0	3.06	30	73.5-121
Carbon disulfide	BQL	100	90.4	90.4	100	84.8	84.8	6.39	30	68.8-129
carbon tetrachloride	BQL	100	98.0	98.0	100	91.8	91.8	6.53	30	71.8-122
chlorobenzene	BQL	100	94.2	94.2	100	93.4	93.4	0.853	30	77.2-118
chloroethane	BQL	100	116	116	100	108	108	7.51	30	10.0-233
2-chloroethyl vinyl ether	BQL	250	0.00	0.00*	250	0.00	0.00*	--	30	16.7-283
chloroform	BQL	100	100	100	100	96.2	96.2	4.07	30	74.0-128
chloromethane	BQL	100	104	104	100	100	100	3.91	30	72.0-138
2-chlorotoluene	BQL	100	94.4	94.4	100	91.6	91.6	3.01	30	79.3-118
4-chlorotoluene	BQL	100	94.6	94.6	100	89.6	89.6	5.43	30	76.8-120
dibromochloromethane	BQL	100	95.2	95.2	100	92.0	92.0	3.42	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	500	395	79.0	500	398	79.6	0.757	30	20.2-171
1,2-dibromoethane	BQL	100	94.0	94.0	100	89.6	89.6	4.79	30	78.5-123
dibromomethane	BQL	100	100	100	100	94.2	94.2	5.97	30	71.3-137
1,2-dichlorobenzene	BQL	100	92.8	92.8	100	90.0	90.0	3.06	30	75.1-120
1,3-dichlorobenzene	BQL	100	94.2	94.2	100	91.8	91.8	2.58	30	73.1-121
1,4-dichlorobenzene	BQL	100	95.2	95.2	100	92.2	92.2	3.20	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	500	382	76.3	500	372	74.4	2.60	30	25.7-149
dichlorodifluoromethane	BQL	100	105	105	100	97.0	97.0	8.30	30	41.7-166
1,1-dichloroethane	BQL	100	101	101	100	95.4	95.4	6.10	30	75.6-128
1,2-dichloroethane	BQL	100	97.8	97.8	100	92.8	92.8	5.25	30	71.1-127
1,1-dichloroethene	BQL	100	99.8	99.8	100	93.0	93.0	7.05	30	64.4-130
cis-1,2-dichloroethene	BQL	100	96.2	96.2	100	93.0	93.0	3.38	30	72.7-134
trans-1,2-dichloroethene	BQL	100	101	101	100	95.2	95.2	6.11	30	74.6-124
1,2-dichloropropane	BQL	100	103	103	100	98.6	98.6	4.56	30	76.5-129
1,3-dichloropropane	BQL	100	98.2	98.2	100	93.6	93.6	4.80	30	79.1-121
2,2-dichloropropane	BQL	100	84.6	84.6	100	78.4	78.4	7.61	30	31.5-157
1,1-dichloropropene	BQL	100	98.0	98.0	100	92.2	92.2	6.10	30	72.5-120
cis-1,3-dichloropropene	BQL	100	91.8	91.8	100	96.4	96.4	4.89	30	66.6-132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

SGS Environmental Services

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental — Inst: MSD8

Lab Code: NC00919 — Batch: 8070609

EPA Sample No.: G128-2403-7a, G128-2403-7a, G128-2403-7a — Dilution: 20

Filenames: 0706830.D, 0706831.D, 0706832.D — Matrix: Water

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	91.6	91.6	100	82.2	82.2	10.8	30	44.7-144
Diisopropyl ether	BQL	100	96.2	96.2	100	91.0	91.0	5.56	30	79.4-122
ethylbenzene	BQL	100	97.6	97.6	100	92.8	92.8	5.04	30	73.8-126
hexachlorobutadiene	BQL	100	91.6	91.6	100	87.4	87.4	4.69	30	51.8-134
2-hexanone	BQL	500	444	88.8	500	423	84.7	4.79	30	41.6-111
Iodomethane	BQL	100	80.0	80.0	100	77.0	77.0	3.82	30	40.6-126
isopropylbenzene	BQL	100	90.8	90.8	100	89.8	89.8	1.11	30	74.3-123
4-isopropyltoluene	BQL	100	93.0	93.0	100	89.2	89.2	4.17	30	74.6-122
Methyl-tert-butyl ether	BQL	100	87.4	87.4	100	82.4	82.4	5.89	30	66.5-136
methylene chloride	BQL	100	99.4	99.4	100	93.8	93.8	5.80	30	48.6-155
4-methyl-2-pentanone	BQL	500	459	91.9	500	458	91.6	0.349	30	6.88-166
naphthalene	BQL	100	72.2	72.2	100	69.8	69.8	3.38	30	55.1-140
n-propyl benzene	BQL	100	96.4	96.4	100	92.6	92.6	4.02	30	71.6-128
styrene	BQL	100	92.6	92.6	100	89.4	89.4	3.52	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	100	94.0	94.0	100	93.4	93.4	0.640	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	100	89.6	89.6	100	90.8	90.8	1.33	30	75.7-136
tetrachloroethene	BQL	100	97.4	97.4	100	91.6	91.6	6.14	30	45.8-153
toluene	BQL	100	103	103	100	105	105	2.50	30	66.4-128
1,2,3-trichlorobenzene	BQL	100	78.4	78.4	100	75.0	75.0	4.43	30	61.0-126
1,2,4-trichlorobenzene	BQL	100	74.6	74.6	100	76.0	76.0	1.86	30	60.6-125
1,1,1-trichloroethane	BQL	100	98.4	98.4	100	94.4	94.4	4.15	30	78.4-121
1,1,2-trichloroethane	BQL	100	101	101	100	95.0	95.0	6.12	30	64.8-128
trichloroethene	BQL	100	103	103	100	96.6	96.6	6.02	30	84.9-136
trichlorofluoromethane	BQL	100	110	110	100	102	102	7.56	30	76.8-132
1,2,3-trichloropropane	BQL	100	82.8	82.8	100	83.2	83.2	0.482	30	10.0-218
1,2,4-trimethylbenzene	BQL	100	94.8	94.8	100	91.4	91.4	3.65	30	31.0-172
1,3,5-trimethylbenzene	BQL	100	93.0	93.0	100	88.4	88.4	5.07	30	67.7-132
Vinyl acetate	BQL	250	237	94.8	250	223	89.4	5.91	30	0.00-355
vinyl chloride	BQL	100	100	100	100	96.6	96.6	3.66	30	68.1-137
m/p-xylene	BQL	200	188	93.8	200	182	91.0	3.03	30	79.8-118
o-xylene	BQL	100	91.8	91.8	100	89.6	89.6	2.42	30	80.0-121

System Monitoring Compound Results

		MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	QC LIMITS REC
460-00-4	4-Bromofluorobenzene	10	9.35	93.5	10	9.87	98.7	84.7-115
17060-07-0	1,2-Dichloroethane-d4	10	9.95	99.5	10	9.94	99.4	63.5-140
2037-26-5	Toluene-d8	10	10.31	103	10	11.11	111	81.8-117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MS Spike Recovery: 1 failure(s) out of 72. MSD Spike Recovery: 1 failure(s) out of 72.

RPD: 1 out of 72 outside of limits

COMMENTS: _____

Analyst: _____ Reviewed by: _____

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

(1)

CLIENT: SGS-AK

CONTACT: FORREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI - ANWR SITE/PWSID#: KLI# 516.01

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1092877

SGS Reference #: SGS-NC G552-608

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	2378-TCDD 8280	VOC 8260 (624 compounds)	VOC 8260 (624 compounds)							REMARKS/ ~~LOC ID~~
	Preservatives Used						—	MeOH*	MeOH							
	Analysis Required (3)															
	MOA09DXN003	6/23/09	0912	SLUDGE	1	G	✓									1092877001
	MOA09VOP019	6/23/09	0912	SLUDGE	1	G		✓								1092877004
	~~TRIP BLANK~~ TRIP BLANK	6/23/09	0912	SOIL	1	G			✓							1092877006

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Forrest Taylor	6/25/09	1120	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/26/09	Time 11:00	Received For Laboratory By:

(4)

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions: * 2X METHANOL; METHANOL ADDED AT LAB.

Samples Received Cold? YES NO

Temperature°C: Cooler 5.9 . TB

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

July 17, 2009 Analytical Report for Service Request No: K0905765

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

RE: KLI-AWWU/KLI#516.01

Dear Forest:

Enclosed are the results of the samples submitted to our laboratory on June 26, 2009. For your reference, these analyses have been assigned our service request number K0905765.

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 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

07/20/09

Pradeep Divvela
Project Chemist

PD/ln

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NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
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 compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
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 has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

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, Inc.	**Service Request No.:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Received:**	06/26/09
Sample Matrix:	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/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Two soil samples were received for analysis at Columbia Analytical Services on 06/26/09. Minor discrepancies are noted on the chain of custody and/or cooler receipt and preservation form included in this data package. The samples were received in good condition. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Cyanide by Method 9012A:
The matrix spike recovery of Cyanide for sample Batch QC was outside the CAS control criteria as a result of the heterogeneous character of the sample. The Relative Percent Difference (RPD) for the replicate analysis supported this. The associated QA/QC results (e.g. control sample, calibration standards, etc.) indicated the analysis was in control. No further corrective action was appropriate.

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

Organochlorine Pesticides by EPA Method 8081A

Calibration Verification Exceptions:
The primary evaluation criterion was exceeded for Toxaphene in Continuing Calibration Verification (CCV) 0707F004; and for Chlordane in 07078F032. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

Results for Toxaphene and Chlordane in QC sample KWG0905732-3 were reported from a column using average percent recovery of all analytes in the verification standard.

Matrix Spike Recovery Exceptions:
The control criteria for the matrix spike recovery of gamma-BHC and Toxaphene 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.

Approved by_____ **Date** 07/20/09

Elevated Detection Limits:
The detection limit was elevated for a few analytes in sample MOA09PES004. 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

Calibration Verification Exceptions:
The primary evaluation criterion was exceeded for Azinphos-methyl (Guthion), Tributyl Phosphate, Triphenyl Phosphate in Continuing Calibration Verification (CCV) 0713F023. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

Results for Azinphos-methyl (Guthion) in QC samples KWG0905761-1LCS/2DLCS; Triphenyl Phosphate in all samples were reported from a column using average percent recovery of all analytes in the verification standard.

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

07/20/09

Approved by_____**Date**_____

Chain of Custody Documentation

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

CAS

1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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, 4°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES004	Sludge	~~1~~ 2	6/23/9	0912		3 A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

CAS

1092877

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.01

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 (4500CN C,E), and percent solids (SM18 2540G). Detection limit 0.3 µg/g (dry weight). Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET003	Sludge	1	6/23/9	0912		5A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	G. Lawley	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

K09D5765

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI-AWWU SITE/PWSID#: KLI # 516.01

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1092877

SGS Reference #: CAS

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	CN, TOTAL	9012 VS ASSDCN	8081 *	8141 *						REMARKS/ ~~LOC ID~~
						Preservatives Used										
						Analysis Required (3)										
	M0A09PES004	6/23/09	0912	SOLID	1	G	•	✓	✓							1092877003
	M0A09MET003	6/23/09	0912	SOLID	1	G	✓									1092877005

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	6/25/09	1115	[signature] CAS 6/26/09 1100
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 _____

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions: * SEE LIST FOR 8081 & 8141 INFORMATION

Samples Received Cold? YES NO

Cooler TB

Temperature °C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC P.D

Client / Project: SGS Service Request *K09* 05765

Received: 6/26/09 Opened: 6/26/09 By: KD

1. Samples were received via? *US Mail* *Fed Ex* (*UPS*) *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 2, F/B
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Is shipper's air-bill filed? If not, record air-bill number: 1ZA8619W01455198 45 NA Y N
   1ZA8619W01452084 58
5. **Temperature of cooler(s) upon receipt (°C):** -1.1C -.8C
   Temperature Blank (°C): .1C 1.1C
   Thermometer ID: 264 257
6. If applicable, list Chain of Custody Numbers:
7. Packing material used. *Inserts* *Baggies* (*Bubble Wrap*) (*Gel Packs*) *Wet Ice* *Sleeves* *Other* peanuts
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 in the table below* NA Y (N)
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA (Y) N
13. Were the pH-preserved bottles tested* 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. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** (NA) Y N
16. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
no label *	MOA09MET003		

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

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: * only other sample left

Total Solids

Client: SGS Environmental Services, Inc.
Project: KLI-AWWU/KLI#516.01
Sample Matrix: Soil

Service Request: K0905765

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MOA09PES004	K0905765-001	06/23/2009	06/26/2009	06/30/2009	30.2	
MOA09MET003	K0905765-002	06/23/2009	06/26/2009	06/30/2009	30.8	

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/23/2009
Sample Matrix:	Soil	**Date Received:**	06/26/2009
		Date Analyzed:	06/30/2009

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
MOA09PES004	K0905765-001	30.2	30.6	30.4	1	

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : SGS Environmental Services, Inc.
Project Name : KLI-AWWU
Project Number : KLI#516.01
Sample Matrix : SOIL

Service Request : K0905765
Date Collected : 06/23/09
Date Received : 06/26/09

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
MOA09MET003	K0905765-002	0.72	1	7/7/2009	07/09/09	ND	
Method Blank	K0905765-MB	0.72	1	7/7/2009	07/09/09	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0905765
Project Name :	KLI-AWWU	**Date Collected :**	NA
Project Number :	KLI#516.01	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/07/09
		Date Analyzed :	07/09/09

Duplicate Summary
Inorganic Parameters

Sample Name :	BatchQC	Units :	mg/Kg
Lab Code :	K0905770-001DUP	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	1.7	ND	ND	ND	-	

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0905765
Project Name :	KLI-AWWU	**Date Collected :**	NA
Project Number :	KLI#516.01	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/07/09
		Date Analyzed :	07/09/09

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name :	BatchQC		Units :	mg/Kg
Lab Code :	K0905770-001MS	K0905770-001DMS	Basis :	Dry
Test Notes :				

Analyte	Prep Method	Analysis Method	MRL	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Spike Recovery MS	Spike Recovery DMS	CAS Acceptance Limits	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A	1.7	17.1	16.3	ND	30.0	8.4	175	52	125	NC	*

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0905765
Project Name :	KLI-AWWU	**Date Collected :**	NA
Project Number :	KLI#516.01	**Date Received :**	NA
Sample Matrix :	SOIL	**Date Prepared :**	07/07/09
		Date Analyzed :	07/09/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0905765-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	26.6	24.4	92	85-115	

Report By: MKANALY

Organochlorine Pesticides
EPA Method 8081

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/23/2009
Sample Matrix:	Soil	**Date Received:**	06/26/2009

Organochlorine Pesticides

Sample Name:	MOA09PES004	**Units:**	ug/Kg
Lab Code:	K0905765-001	**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	8.3	1	07/01/09	07/09/09	KWG0905732	
beta-BHC	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
gamma-BHC (Lindane)	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
delta-BHC	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Heptachlor	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Aldrin	ND	Ui	14	1	07/01/09	07/09/09	KWG0905732	
Heptachlor Epoxide	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
gamma-Chlordane†	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Endosulfan I	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
alpha-Chlordane	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Dieldrin	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
4,4'-DDE	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Endrin	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Endosulfan II	ND	Ui	16	1	07/01/09	07/09/09	KWG0905732	
4,4'-DDD	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
Endosulfan Sulfate	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	
4,4'-DDT	**280**		8.3	1	07/01/09	07/09/09	KWG0905732	
Toxaphene	ND	Ui	520	1	07/01/09	07/09/09	KWG0905732	
Chlordane	ND	Ui	180	1	07/01/09	07/09/09	KWG0905732	
Mirex	ND	U	8.3	1	07/01/09	07/09/09	KWG0905732	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	82	25-125	07/09/09	Acceptable
Decachlorobiphenyl	95	22-142	07/09/09	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:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	NA
Sample Matrix:	Biosolids solid	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG0905732-4	**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	2.5	1	07/01/09	07/08/09	KWG0905732	
beta-BHC	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
gamma-BHC (Lindane)	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
delta-BHC	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Heptachlor	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Aldrin	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Heptachlor Epoxide	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
gamma-Chlordane†	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Endosulfan I	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
alpha-Chlordane	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Dieldrin	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
4,4'-DDE	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Endrin	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Endosulfan II	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
4,4'-DDD	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Endosulfan Sulfate	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
4,4'-DDT	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	
Toxaphene	ND	U	130	1	07/01/09	07/08/09	KWG0905732	
Chlordane	ND	U	50	1	07/01/09	07/08/09	KWG0905732	
Mirex	ND	U	2.5	1	07/01/09	07/08/09	KWG0905732	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	96	25-125	07/08/09	Acceptable
Decachlorobiphenyl	86	22-142	07/08/09	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: KLI-AWWU/KLI#516.01
Sample Matrix: Soil

Service Request: K0905765

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3541
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES004	K0905765-001	82	95
Method Blank	KWG0905732-4	96	86
Batch QC	K0905657-001	44	78
Batch QCMS	KWG0905732-1	59	102
Batch QCDMS	KWG0905732-2	50	90
Batch QCMS	KWG0905732-5	72	103
Batch QCDMS	KWG0905732-6	63	140
Batch QCMS	KWG0905732-8	71	98
Batch QCDMS	KWG0905732-9	67	109
Lab Control Sample	KWG0905732-3	77	71

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	25-125
Sur2 =	Decachlorobiphenyl	22-142

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: KLI-AWWU/KLI#516.01
Sample Matrix: Biosolids solid

Service Request: K0905765
Date Extracted: 07/01/2009
Date Analyzed: 07/09/2009

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name: Batch QC
Lab Code: K0905657-001

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3541
Analysis Method: 8081A

Level: Low
Extraction Lot: KWG0905732

Analyte Name	Sample Result	Batch QCMS KWG0905732-1 Matrix Spike			Batch QCDMS KWG0905732-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
alpha-BHC	6.6	100	98.8	95	75.1	98.2	70	36-145	29	40
beta-BHC	ND	124	98.8	125	119	98.2	121	38-148	4	40
gamma-BHC (Lindane)	ND	105	98.8	106 #	75.1	98.2	76 #	33-154	33	40
delta-BHC	ND	108	98.8	109	91.3	98.2	93	40-164	17	40
Heptachlor	ND	94.2	98.8	95	86.2	98.2	88	38-145	9	40
Aldrin	ND	47.2	98.8	48	42.2	98.2	43	37-143	11	40
Heptachlor Epoxide	ND	89.8	98.8	91	68.7	98.2	70	29-150	27	40
gamma-Chlordane	ND	81.0	98.8	82	71.9	98.2	73	27-149	12	40
Endosulfan I	ND	68.4	98.8	69	56.3	98.2	57	18-133	19	40
alpha-Chlordane	ND	80.4	98.8	81	62.4	98.2	64	33-141	25	40
Dieldrin	ND	98.8	98.8	100	75.8	98.2	77	37-146	26	40
4,4'-DDE	7.1	113	98.8	107	86.1	98.2	80	32-156	27	40
Endrin	ND	107	98.8	108	81.5	98.2	83	34-161	27	40
Endosulfan II	ND	64.4	98.8	65	53.2	98.2	54	19-147	19	40
4,4'-DDD	ND	74.9	98.8	76	61.2	98.2	62	26-161	20	40
Endosulfan Sulfate	ND	77.3	98.8	78	67.5	98.2	69	28-149	13	40
4,4'-DDT	ND	87.3	98.8	88	72.9	98.2	74	22-174	18	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:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Extracted:**	07/01/2009
Sample Matrix:	Biosolids solid	**Date Analyzed:**	07/08/2009 - 07/09/2009

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K0905657-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A	**Extraction Lot:**	KWG0905732

		Batch QCMS KWG0905732-5 Matrix Spike			Batch QCDMS KWG0905732-6 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Mirex	ND	80.9	99.9	81	70.4	97.8	72	10-168	14	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.	**Service Request:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Extracted:**	07/01/2009
Sample Matrix:	Biosolids solid	**Date Analyzed:**	07/08/2009

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name:	Batch QC	**Units:**	ug/Kg
Lab Code:	K0905657-001	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8081A	**Extraction Lot:**	KWG0905732

		Batch QCMS KWG0905732-8 Matrix Spike			Batch QCDMS KWG0905732-9 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Toxaphene	ND	1420	980	145 #	1040	997	105 #	10-184	31	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: KLI-AWWU/KLI#516.01
Sample Matrix: Biosolids solid

Service Request: K0905765
Date Extracted: 07/01/2009
Date Analyzed: 07/08/2009

Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3541
Analysis Method: 8081A

Units: ug/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG0905732

Analyte Name	Lab Control Sample KWG0905732-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
alpha-BHC	114	100	114	45-150
beta-BHC	109	100	109	47-149
gamma-BHC (Lindane)	113	100	113	48-146
delta-BHC	120	100	120	59-162
Heptachlor	111	100	111	47-142
Aldrin	101	100	101	43-141
Heptachlor Epoxide	94.8	100	95	48-140
gamma-Chlordane	104	100	104	42-145
Endosulfan I	88.8	100	89	36-124
alpha-Chlordane	103	100	103	42-145
Dieldrin	102	100	102	50-142
4,4'-DDE	106	100	106	51-149
Endrin	116	100	116	54-155
Endosulfan II	92.2	100	92	42-130
4,4'-DDD	105	100	105	51-152
Endosulfan Sulfate	97.9	100	98	48-143
4,4'-DDT	110	100	110	59-151
Toxaphene	1110	1000	111	37-155
Chlordane	1260	1000	126	61-142
Mirex	83.4	100	83	46-128

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
EPA Method 8141

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	06/23/2009
Sample Matrix:	Soil	**Date Received:**	06/26/2009

Organophosphorus Pesticides

Sample Name:	MOA09PES004	**Units:**	mg/Kg
Lab Code:	K0905765-001	**Basis:**	Dry
Extraction Method:	EPA 3540	**Level:**	Low
Analysis Method:	8141A		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.67	1	07/01/09	07/14/09	KWG0905761	
Methyl Parathion	ND	U	0.33	1	07/01/09	07/14/09	KWG0905761	
Malathion	ND	U	0.33	1	07/01/09	07/14/09	KWG0905761	
Ethyl Parathion	ND	U	0.33	1	07/01/09	07/14/09	KWG0905761	
Azinphos-methyl (Guthion)	ND	U	0.33	1	07/01/09	07/14/09	KWG0905761	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	50	32-172	07/14/09	Acceptable
Triphenyl Phosphate	57	38-174	07/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG0905761-5	**Basis:**	Dry
Extraction Method:	EPA 3540	**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	07/01/09	07/14/09	KWG0905761	
Methyl Parathion	ND	U	0.050	1	07/01/09	07/14/09	KWG0905761	
Malathion	ND	U	0.050	1	07/01/09	07/14/09	KWG0905761	
Ethyl Parathion	ND	U	0.050	1	07/01/09	07/14/09	KWG0905761	
Azinphos-methyl (Guthion)	ND	U	0.050	1	07/01/09	07/14/09	KWG0905761	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	78	32-172	07/14/09	Acceptable
Triphenyl Phosphate	96	38-174	07/14/09	Acceptable

Comments:

Client: SGS Environmental Services, Inc.
Project: KLI-AWWU/KLI#516.01
Sample Matrix: Soil

Service Request: K0905765

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3540
Analysis Method: 8141A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES004	K0905765-001	50	57
Method Blank	KWG0905761-5	78	96
Lab Control Sample	KWG0905761-1	98	108
Duplicate Lab Control Sample	KWG0905761-2	97	101

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	32-172
Sur2 =	Triphenyl Phosphate	38-174

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:**	K0905765
Project:	KLI-AWWU/KLI#516.01	**Date Extracted:**	07/01/2009
Sample Matrix:	Soil	**Date Analyzed:**	07/14/2009

Lab Control Spike/Duplicate Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method:	EPA 3540	**Units:**	mg/Kg
Analysis Method:	8141A	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG0905761

	Lab Control Sample KWG0905761-1 Lab Control Spike			Duplicate Lab Control Sample KWG0905761-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	0.199	0.267	75	0.165	0.267	62	10-120	19	40
Methyl Parathion	0.236	0.267	88	0.199	0.267	75	53-136	17	40
Malathion	0.241	0.267	91	0.208	0.267	78	54-122	15	40
Ethyl Parathion	0.231	0.267	86	0.190	0.267	71	48-125	19	40
Azinphos-methyl (Guthion)	0.253	0.267	95	0.202	0.267	76	50-161	23	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.

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

Project:	516.02/516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093004

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/9/2009	13:52
Workorder	1093004	516.02/516.01			

Sample ID	**Client Sample ID**

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

905627 **DUP** **MOA09TCN013 ...(1093037001DUP)**

4500CN - Total Cyanide RPD was outside of QC criteria. The result for the sample and duplicate is less than the PQL.

905630 **MS** **Leachate(1093091001MS)**

4500CN - Total Cyanide - The matrix spike recovered outside of the acceptance criteria. See the laboratory control sample for accuracy requirements.

906180 **MS** **ARL4(1093053001MS)**

7470A - Sample received past hold time.

906181 **MSD** **ARL4(1093053001MSD)**

7470A - Sample received past hold time.

SGS Ref.#	1093004017		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/25/2009 7:12
Client Sample ID	MOA09TCN011 Influent	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1093004018		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/25/2009 7:00
Client Sample ID	MOA09TCN012 Effluent	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	0.021	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1093004019		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/25/2009 7:12
Client Sample ID	MOA09MET004 Influent	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/06/09	07/06/09	RTS
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Copper	49.7	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Lead	2.49	0.200	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Nickel	3.51	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Silver	1.44	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Zinc	111	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB

SGS Ref.#	1093004020		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/25/2009 7:00
Client Sample ID	MOA09MET005 Effluent	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/06/09	07/06/09	RTS
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Chromium	2.83	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Copper	128	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Lead	6.94	0.200	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Nickel	5.53	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Silver	3.21	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Zinc	220	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB

SGS Ref.#	905624	Method Blank	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7299
Project Name/#	516.02/516.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	07/01/2009

QC results affect the following production samples:

1093004017, 1093004018

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	ND	0.0050	0.0015	mg/L	07/02/09

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	906171	Method Blank	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21876
Project Name/#	516.02/516.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	07/06/2009

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	07/06/09

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906533	Method Blank	**Printed Date/Time**	07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	MXX21881
Project Name/#	516.02/516.01		**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)		**Date**	07/06/2009

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	07/08/09
Arsenic	ND	5.00	2.50	ug/L	07/08/09
Beryllium	ND	0.400	0.130	ug/L	07/08/09
Cadmium	ND	0.500	0.150	ug/L	07/08/09
Chromium	ND	2.00	0.620	ug/L	07/08/09
Copper	ND	1.00	0.310	ug/L	07/08/09
Lead	ND	0.200	0.0620	ug/L	07/08/09
Molybdenum	ND	10.0	3.10	ug/L	07/08/09
Nickel	ND	2.00	0.620	ug/L	07/08/09
Selenium	ND	5.00	1.50	ug/L	07/08/09
Silver	ND	1.00	0.310	ug/L	07/08/09
Thallium	ND	1.00	0.310	ug/L	07/08/09
Zinc	ND	5.00	2.50	ug/L	07/08/09

Batch MMS5975
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905627	Duplicate	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7299
Project Name/#	516.02/516.01			**Method**	EXT/CN4500
Original	1093037001			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004017, 1093004018

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	ND	mg/L	0	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905629	Duplicate	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7299
Project Name/#	516.02/516.01			**Method**	EXT/CN4500
Original	1093091001			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004017, 1093004018

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.0019 J	0.0016	mg/L	12	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905625	Lab Control Sample	**Printed Date/Time**	07/09/2009	13:52
	905626	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7299	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.02/516.01		**Date**	07/01/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004017, 1093004018

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.047	94	(75-125)			0.05 mg/L	07/02/2009
	LCSD	0.047	93		1	(< 25)	0.05 mg/L	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	906172	Lab Control Sample	**Printed Date/Time**	07/09/2009	13:52
			Prep **Batch**	MXX21876	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.02/516.01		**Date**	07/06/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.30	108	(85-115)			4 ug/L	07/06/2009

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906176	Lab Control Sample	**Printed Date/Time**	07/09/2009	13:52
			Prep **Batch**	MXX21876	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.02/516.01		**Date**	07/06/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.38	109	(85-115)			4 ug/L	07/06/2009

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906534	Lab Control Sample	**Printed Date/Time**	07/09/2009	13:52
			Prep **Batch**	MXX21881	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.02/516.01		**Date**	07/06/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009
Arsenic	LCS	1010	101	(85-115)			1000 ug/L	07/08/2009
Beryllium	LCS	105	105	(85-115)			100 ug/L	07/08/2009
Cadmium	LCS	102	102	(85-115)			100 ug/L	07/08/2009
Chromium	LCS	411	103	(85-115)			400 ug/L	07/08/2009
Copper	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009
Lead	LCS	996	100	(85-115)			1000 ug/L	07/08/2009
Molybdenum	LCS	394	99	(85-115)			400 ug/L	07/08/2009
Nickel	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009
Selenium	LCS	1030	103	(85-115)			1000 ug/L	07/08/2009
Silver	LCS	102	102	(85-115)			100 ug/L	07/08/2009
Thallium	LCS	10.1	101	(85-115)			10 ug/L	07/08/2009
Zinc	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009

Batch MMS5975
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905628	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
			Prep	**Batch**	WXX7299
				Method	Cyanide Distillation Kone Lab
				Date	07/01/2009
Original	1093037001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004017, 1093004018

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.059	117	(75-125)			0.050	mg/L	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905630	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
			Prep	**Batch**	WXX7299
				Method	Cyanide Distillation Kone Lab
				Date	07/01/2009
Original	1093091001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004017, 1093004018

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	0.0019 J	.034	65*	(75-125)			0.050	mg/L	07/02/2009

Batch	WDA1663
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	906173	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
			Prep	**Batch**	MXX21876
				Method	Digestion Mercury (W)
				Date	07/06/2009
Original	1092994001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	7.55	94	(85-115)			8.00	ug/L	07/06/2009

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906177	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
			Prep	**Batch**	MXX21876
				Method	Digestion Mercury (W)
				Date	07/06/2009
Original	1093153004				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8.08	101	(85-115)			8.00	ug/L	07/06/2009

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906180	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
	906181	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21876
				Method	Digestion Mercury (W)
				Date	07/06/2009
Original	1093053001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	8.54	107	(85-115)			8.00	ug/L	07/06/2009
		MSD		8.34	104		2	(< 15)	8.00	ug/L	07/06/2009

Batch MCV4232
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	906537	Matrix Spike	**Printed Date/Time**		07/09/2009 13:52
			Prep	**Batch**	MXX21881
				Method	DW Digest for Metals on ICP-M
				Date	07/06/2009
Original	1093053002				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004019, 1093004020

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	ND	1050	105	(70-130)			1000	ug/L	07/08/2009
Arsenic	MS	ND	1030	103	(70-130)			1000	ug/L	07/08/2009
Beryllium	MS	ND	106	106	(70-130)			100	ug/L	07/08/2009
Cadmium	MS	ND	102	102	(70-130)			100	ug/L	07/08/2009
Chromium	MS	3.72	417	103	(70-130)			400	ug/L	07/08/2009
Copper	MS	ND	1010	101	(70-130)			1000	ug/L	07/08/2009
Lead	MS	ND	974	97	(70-130)			1000	ug/L	07/08/2009
Nickel	MS	64.6	1060	100	(70-130)			1000	ug/L	07/08/2009
Selenium	MS	ND	1030	103	(70-130)			1000	ug/L	07/08/2009
Silver	MS	ND	103	103	(70-130)			100	ug/L	07/08/2009
Thallium	MS	ND	10.1	101	(70-130)			10.0	ug/L	07/08/2009
Zinc	MS	ND	1020	102	(70-130)			1000	ug/L	07/08/2009

Batch MMS5975
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276-6178

1093004

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09-1006	KLI Proj. #: 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	Preservative: NaOH, 4°C Effluent samples contain L- Ascorbic Acid	Type of Container: 500 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN011	Influent	1	6/24-6/25	712		17 A
MOA09TCN012	Effluent	1	"	700		18 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/25/9 1055	hand	[illegible]	6/25 1055
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/25 1340			
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	6-29-09 1340

70d 2.3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093004

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1006	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** ~~1 L~~ 250 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET004	Influent	1	6/24-6/25	712		19 A
MOA09MET005	Effluent	1	↓	700		20 A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25/9 1055	hand	[signature]	6/25 1055
RELINQUISHED BY:	**DATE AND TIME**	**TRANSPORTED BY:**	**RECEIVED BY:**	**DATE AND TIME**
[signature]	6/25 1340	hand		
RELINQUISHED BY:	**DATE AND TIME**	**TRANSPORTED BY:**	**RECEIVED BY:**	**DATE AND TIME**
			[signature]	6-25-09

SAMPLED BY (NAME/SIGNATURE): _____ 1246

1093004

SGS

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
✓			Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
✓			If yes, have you done *e-mail ALERT notification*?
✓			Are samples *within 24 hrs.* of **hold time** or **due date**?
✓			If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	
			If this is for PWS, provide **PWSID:**
		✓	Payment received: $ by Check or Credit Card
	✓		Will courier charges apply?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: 6.15.09

Received Time: 1340

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	2.3 °C	70d
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (√ *if applicable*)
- Extra Sample Volume?
- Limited Sample Volume?
- Multi-Incremental Samples?
- Lab-filtered for dissolved
- Ref Lab required for
- Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.*
		If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact?
		# / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*:
		Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM):

Individual contacted:

Via: Phone / Fax / E-mail (*circle one*)

Date/Time:

Reason for contact:

Change Order Required? Yes / No

Notes: Sample Containers 12 & 13 A 125 ml Nalgene Received EMPTY
Sample Containers For Total & Diss Metals preserved w HNO3 pH<2.
Run -11 in triplicate @11, 12 & 13. for color per Gary Lawley.

Completed by (sign): **(print):** JAMES MOCCHIT-1

Login proof: Self-check completed ✓ **Peer-reviewer's Initials**

Form # F004r20 revised 05/05/2009

1093004

SGS

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1-16	A	1	Color						16							✓				✓									
17,18	A	1	CN							2						✓										✓			
19,20	A	1	Metals					2							✓							✓							
21	A	1	Color	Dup					5	J	A	1A																	
~~22~~	~~A~~	~~1~~	~~Color~~	~~Dup~~					↓	↓	↓	~~11A~~																	
Bottle Totals																													

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 6-25-09

Form # F004r20 revised 05/05/2009

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093021

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/21/2009	8:48
Workorder	1093021	516.01			

Sample ID	**Client Sample ID**

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

1093021005 **PS** **MOA09MET015 Influent**

200.8 - PQLs were elevated due to insufficient sample.

909011 **MB** **MB for HBN 216938 [MXX/21923]**

200.8 - Zinc was detected in the method blank greater than 1/2 the PQL but less than the PQL.

909012 **LCS** **LCS for HBN 216938 [MXX/21923]**

200.8 - LCS recovery for zinc is outside of acceptance criteria (biased high).

909013 **MS** **ARL 202(1093411002MS)**

200.8 - MS recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093021	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 21, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1093021005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:48
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 16:00
Client Sample ID	MOA09MET015 Influent	**Received Date/Time**	06/25/2009 16:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

200.8 - PQLs were elevated due to insufficient sample.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/01/09	07/01/09	RTS
Dissolved Metals by ICP/MS									
Antimony	ND	4.55	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	22.7	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	1.82	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	2.27	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	9.09	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	ND	0.909	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	45.5	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	ND	9.09	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	22.7	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	4.55	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	4.55	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	116	22.7	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	15.2	4.55	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	1093021006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:48
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 16:00
Client Sample ID	MOA09MET016 Effluent	**Received Date/Time**	06/25/2009 16:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/01/09	07/01/09	RTS
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	ND	0.200	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	2.94	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	38.4	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	14.0	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	1093021007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:48
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 16:02
Client Sample ID	MOA09MET017 Influent	**Received Date/Time**	06/25/2009 16:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/01/09	07/01/09	RTS
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	ND	0.200	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	3.00	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	11.8	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	9.04	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	1093021008		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:48
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 16:02
Client Sample ID	MOA09MET018 Effluent	**Received Date/Time**	06/25/2009 16:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		07/01/09	07/01/09	RTS
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	0.277	0.200	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	3.02	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	42.6	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	13.0	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	905260	Method Blank	**Printed Date/Time**	07/21/2009	8:48
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	MXX21862	
Project Name/#	516.01		**Method**	METHOD	
Matrix	Water (Surface, Eff., Ground)		**Date**	07/01/2009	

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	07/01/09

Batch MCV4229
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	909011	Method Blank	**Printed Date/Time**	07/21/2009	8:48
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21923
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	07/16/2009

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	07/17/09
Arsenic	ND	5.00	2.50	ug/L	07/17/09
Beryllium	ND	0.400	0.130	ug/L	07/17/09
Cadmium	ND	0.500	0.150	ug/L	07/17/09
Chromium	ND	2.00	0.620	ug/L	07/17/09
Copper	ND	1.00	0.310	ug/L	07/17/09
Lead	ND	0.200	0.0620	ug/L	07/17/09
Molybdenum	ND	10.0	3.10	ug/L	07/17/09
Nickel	ND	2.00	0.620	ug/L	07/17/09
Selenium	ND	5.00	1.50	ug/L	07/17/09
Silver	ND	1.00	0.310	ug/L	07/17/09
Thallium	ND	1.00	0.310	ug/L	07/17/09
Zinc	3.20 J	5.00	2.50	ug/L	07/17/09

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905261	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21862	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	07/01/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.51	113	(85-115)			4 ug/L	07/01/2009

Batch MCV4229
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	905265	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21862	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	07/01/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

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	07/01/2009

Batch MCV4229
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	909012	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21923	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	07/16/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter		QC Results	Pct Recov		LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS									
Antimony	LCS	1040	104		(85-115)			1000 ug/L	07/17/2009
Arsenic	LCS	1030	103		(85-115)			1000 ug/L	07/17/2009
Beryllium	LCS	109	109		(85-115)			100 ug/L	07/17/2009
Cadmium	LCS	104	104		(85-115)			100 ug/L	07/17/2009
Chromium	LCS	422	106		(85-115)			400 ug/L	07/17/2009
Copper	LCS	1050	105		(85-115)			1000 ug/L	07/17/2009
Lead	LCS	971	97		(85-115)			1000 ug/L	07/17/2009
Molybdenum	LCS	408	102		(85-115)			400 ug/L	07/17/2009
Nickel	LCS	1050	105		(85-115)			1000 ug/L	07/17/2009
Selenium	LCS	1030	103		(85-115)			1000 ug/L	07/17/2009
Silver	LCS	99.8	100		(85-115)			100 ug/L	07/17/2009
Thallium	LCS	9.61	96		(85-115)			10 ug/L	07/17/2009
Zinc	LCS	1220	122	*	(85-115)			1000 ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905262	Matrix Spike	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21862	
			Method	Digestion Mercury (W)	
			Date	07/01/2009	
Original	1093031001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	9.27	116*	(85-115)			8.00	ug/L	07/01/2009

Batch MCV4229
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	905266	Matrix Spike	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21862	
			Method	Digestion Mercury (W)	
			Date	07/01/2009	
Original	1093021005				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8.18	102	(85-115)			8.00	ug/L	07/01/2009

Batch MCV4229
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	905269	Matrix Spike	**Printed Date/Time**	07/21/2009	8:48
	905270	Matrix Spike Duplicate	**Prep** **Batch**	MXX21862	
			Method	Digestion Mercury (W)	
			Date	07/01/2009	
Original	1092980001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	8.29	104	(85-115)			8.00	ug/L	07/01/2009
		MSD		8.49	106		2	(< 15)	8.00	ug/L	07/01/2009

Batch	MCV4229
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	905271	Matrix Spike	**Printed Date/Time**		07/21/2009 8:48
	905272	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21862
				Method	Digestion Mercury (W)
				Date	07/01/2009
Original	1093128001				
Matrix	Other Liquids				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	23.5	100	96	(85-115)			80.0	ug/L	07/01/2009
		MSD		112	111		11	(< 15)	80.0	ug/L	07/01/2009

Batch	MCV4229
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	909013	Matrix Spike	**Printed Date/Time**	07/21/2009	8:48
			Prep **Batch**	MXX21923	
			Method	DW Digest for Metals on ICP-M	
			Date	07/16/2009	
Original	909419				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	57.1 J	9070	90	(70-130)			10000	ug/L	07/17/2009
Arsenic	MS	ND	7940	79	(70-130)			10000	ug/L	07/17/2009
Beryllium	MS	ND	733	73	(70-130)			1000	ug/L	07/17/2009
Cadmium	MS	ND	923	92	(70-130)			1000	ug/L	07/17/2009
Chromium	MS	ND	3670	92	(70-130)			4000	ug/L	07/17/2009
Copper	MS	ND	9430	94	(70-130)			10000	ug/L	07/17/2009
Lead	MS	ND	8870	89	(70-130)			10000	ug/L	07/17/2009
Molybdenum	MS	ND	2730	68*	(70-130)			4000	ug/L	07/17/2009
Nickel	MS	434	9630	92	(70-130)			10000	ug/L	07/17/2009
Selenium	MS	ND	6870	69*	(70-130)			10000	ug/L	07/17/2009
Silver	MS	ND	154	15*	(70-130)			1000	ug/L	07/17/2009
Thallium	MS	ND	84.6	85	(70-130)			100	ug/L	07/17/2009
Zinc	MS	ND	11500	115	(70-130)			10000	ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	909014	Bench Spike DIGESTED	**Printed Date/Time**		07/21/2009 8:48
			Prep	**Batch**	MXX21923
				Method	DW Digest for Metals on ICP-M
				Date	07/16/2009
Original	909419				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093021005, 1093021006, 1093021007, 1093021008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Molybdenum	BND	ND	12900	104	(70-130)			12500	ug/L	07/17/2009
Selenium	BND	ND	31900	102	(70-130)			31300	ug/L	07/17/2009
Silver	BND	ND	3320	106	(70-130)			3130	ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1093021

REQUIRED COMPLETION DATE: 30 days	**P.O.**	**KLI Proj. #:** 516.01

ANALYSIS TYPE: ~~Total and~~ GL **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:** None, 4°C	**Type of Container:** 500ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET017	Influent	1	6/25	1602		3A 7A
MOA09MET018	Effluent	1	6/25	1602		4A 8A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25 1640	Hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6-25-09

SAMPLED BY (NAME/SIGNATURE): _____ AMBIENT 1640

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

SGS

1093021

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
		✓	Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**
		✓	Payment received: $ by Check or Credit Card
	✓		Will courier charges apply?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: 6-25-09

Received Time: 1640

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
ZIP LOCK	AMB °C	—
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (√ *if applicable*)

- ____ Extra Sample Volume?
- ____ Limited Sample Volume?
- ____ Multi-Incremental Samples?
- ____ Lab-filtered for dissolved____
- ____ Ref Lab required for____
- ____ Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM):

Individual contacted:

Via: Phone / Fax / E-mail (*circle one*)

Date/Time:

Reason for contact:

Change Order Required? Yes / No

Notes:

Completed by (sign): [signature] **(print):** JAMES MOCCHITY

Login proof: Self-check completed ✓ **Peer-reviewer's Initials** [initials]

Form # F004r20 revised 05/05/2009

SGS

1093021

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1-4	A	1	Filter					4							✓					✓									
5-8	A	1	Diss Metals									4?			✓							✓							
			Bottle Totals					4				4																	

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 6-25-09

Form # F004r20 revised 05/05/2009

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093037

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/21/2009	8:49
Workorder	1093037	516.01			

Sample ID	**Client Sample ID**

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

1093037001 **PS** **MOA09TCN013 Influent**

4500CN - Total Cyanide RPD was outside of QC criteria. The result for the sample and duplicate is less than the PQL.

905627 **DUP** **MOA09TCN013 ...(1093037001DUP)**

4500CN - Total Cyanide RPD was outside of QC criteria. The result for the sample and duplicate is less than the PQL.

905630 **MS** **Leachate(1093091001MS)**

4500CN - Total Cyanide - The matrix spike recovered outside of the acceptance criteria. See the laboratory control sample for accuracy requirements.

909011 **MB** **MB for HBN 216938 [MXX/21923]**

200.8 - Zinc was detected in the method blank greater than 1/2 the PQL but less than the PQL.

909012 **LCS** **LCS for HBN 216938 [MXX/21923]**

200.8 - LCS recovery for zinc is outside of acceptance criteria (biased high).

909013 **MS** **ARL 202(1093411002MS)**

200.8 - MS recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093037	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 21, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1093037001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:45
Client Sample ID	MOA09TCN013 Influent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

4500CN - Total Cyanide RPD was outside of QC criteria. The result for the sample and duplicate is less than the PQL.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1093037002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:40
Client Sample ID	MOA09TCN014 Effluent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/01/09	07/02/09	ACF

SGS Ref.#	1093037003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:45
Client Sample ID	MOA09MET006 Influent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Copper	42.1	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Lead	8.70	0.200	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Nickel	2.96	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Zinc	85.8	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB

SGS Ref.#	1093037004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:40
Client Sample ID	MOA09MET007 Effluent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Copper	46.2	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Lead	8.36	0.200	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Nickel	3.08	2.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB
Zinc	98.7	5.00	ug/L	EP200.8	A		07/06/09	07/08/09	NRB

SGS Ref.#	1093037007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:45
Client Sample ID	MOA09MET006 Influent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	0.818	0.200	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	2.57	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	8.84	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	5.73	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	1093037008		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/21/2009 8:49
Project Name/#	516.01	**Collected Date/Time**	06/25/2009 8:40
Client Sample ID	MOA09MET007 Effluent	**Received Date/Time**	06/26/2009 11:25
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Lead	0.227	0.200	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Nickel	2.87	2.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Zinc	57.5	5.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB
Copper	16.2	1.00	ug/L	EP200.8	A		07/16/09	07/17/09	NRB

SGS Ref.#	905624	Method Blank	**Printed Date/Time**	07/21/2009	8:49
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	WXX7299	
Project Name/#	516.01		**Method**	EXT/CN4500	
Matrix	Water (Surface, Eff., Ground)		**Date**	07/01/2009	

QC results affect the following production samples:

1093037001, 1093037002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	ND	0.0050	0.0015	mg/L	07/02/09
Batch WDA1663					
Method SM20 4500-CN C,E					
Instrument Konelab					

SGS Ref.#	906521	Method Blank	**Printed Date/Time**	07/21/2009	8:49
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21880
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	07/06/2009

QC results affect the following production samples:

1093037003, 1093037004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	07/08/09
Arsenic	ND	5.00	2.50	ug/L	07/08/09
Beryllium	ND	0.400	0.130	ug/L	07/08/09
Cadmium	ND	0.500	0.150	ug/L	07/08/09
Chromium	ND	2.00	0.620	ug/L	07/08/09
Copper	ND	1.00	0.310	ug/L	07/08/09
Lead	ND	0.200	0.0620	ug/L	07/08/09
Molybdenum	ND	10.0	3.10	ug/L	07/08/09
Nickel	ND	2.00	0.620	ug/L	07/08/09
Selenium	ND	5.00	1.50	ug/L	07/08/09
Silver	ND	1.00	0.310	ug/L	07/08/09
Thallium	ND	1.00	0.310	ug/L	07/08/09
Zinc	ND	5.00	2.50	ug/L	07/08/09

Batch MMS5975

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	909011	Method Blank	**Printed Date/Time**	07/21/2009	8:49
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21923
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	07/16/2009

QC results affect the following production samples:

1093037007, 1093037008

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	07/17/09
Arsenic	ND	5.00	2.50	ug/L	07/17/09
Beryllium	ND	0.400	0.130	ug/L	07/17/09
Cadmium	ND	0.500	0.150	ug/L	07/17/09
Chromium	ND	2.00	0.620	ug/L	07/17/09
Copper	ND	1.00	0.310	ug/L	07/17/09
Lead	ND	0.200	0.0620	ug/L	07/17/09
Molybdenum	ND	10.0	3.10	ug/L	07/17/09
Nickel	ND	2.00	0.620	ug/L	07/17/09
Selenium	ND	5.00	1.50	ug/L	07/17/09
Silver	ND	1.00	0.310	ug/L	07/17/09
Thallium	ND	1.00	0.310	ug/L	07/17/09
Zinc	3.20 J	5.00	2.50	ug/L	07/17/09

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905627	Duplicate	**Printed Date/Time**		07/21/2009 8:49
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7299
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1093037001			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037001, 1093037002

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	ND	mg/L	0	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905629	Duplicate	**Printed Date/Time**		07/21/2009 8:49
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7299
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1093091001			**Date**	7/1/2009 12:00:00PM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037001, 1093037002

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.0019 J	0.0016	mg/L	12	(< 25)	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905625	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:49
	905626	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7299	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.01		**Date**	07/01/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037001, 1093037002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.047	94	(75-125)			0.05 mg/L	07/02/2009
	LCSD	0.047	93		1	(< 25)	0.05 mg/L	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	906522	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:49
			Prep **Batch**	MXX21880	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	07/06/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037003, 1093037004

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	07/08/2009
Arsenic	LCS	1000	100	(85-115)			1000 ug/L	07/08/2009
Beryllium	LCS	100	100	(85-115)			100 ug/L	07/08/2009
Cadmium	LCS	100	100	(85-115)			100 ug/L	07/08/2009
Chromium	LCS	411	103	(85-115)			400 ug/L	07/08/2009
Copper	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009
Lead	LCS	921	92	(85-115)			1000 ug/L	07/08/2009
Molybdenum	LCS	407	102	(85-115)			400 ug/L	07/08/2009
Nickel	LCS	1020	102	(85-115)			1000 ug/L	07/08/2009
Selenium	LCS	1050	105	(85-115)			1000 ug/L	07/08/2009
Silver	LCS	102	102	(85-115)			100 ug/L	07/08/2009
Thallium	LCS	9.52	95	(85-115)			10 ug/L	07/08/2009
Zinc	LCS	1010	101	(85-115)			1000 ug/L	07/08/2009

Batch MMS5975
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	909012	Lab Control Sample	**Printed Date/Time**	07/21/2009	8:49
			Prep **Batch**	MXX21923	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	07/16/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037007, 1093037008

Parameter		QC Results	Pct Recov		LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS									
Antimony	LCS	1040	104		(85-115)			1000 ug/L	07/17/2009
Arsenic	LCS	1030	103		(85-115)			1000 ug/L	07/17/2009
Beryllium	LCS	109	109		(85-115)			100 ug/L	07/17/2009
Cadmium	LCS	104	104		(85-115)			100 ug/L	07/17/2009
Chromium	LCS	422	106		(85-115)			400 ug/L	07/17/2009
Copper	LCS	1050	105		(85-115)			1000 ug/L	07/17/2009
Lead	LCS	971	97		(85-115)			1000 ug/L	07/17/2009
Molybdenum	LCS	408	102		(85-115)			400 ug/L	07/17/2009
Nickel	LCS	1050	105		(85-115)			1000 ug/L	07/17/2009
Selenium	LCS	1030	103		(85-115)			1000 ug/L	07/17/2009
Silver	LCS	99.8	100		(85-115)			100 ug/L	07/17/2009
Thallium	LCS	9.61	96		(85-115)			10 ug/L	07/17/2009
Zinc	LCS	1220	122	*	(85-115)			1000 ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	905628	Matrix Spike	**Printed Date/Time**	07/21/2009	8:49
			Prep **Batch**	WXX7299	
			Method	Cyanide Distillation Kone Lab	
			Date	07/01/2009	
Original	1093037001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037001, 1093037002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.059	117	(75-125)			0.050	mg/L	07/02/2009

Batch WDA1663
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	905630	Matrix Spike	**Printed Date/Time**	07/21/2009	8:49
			Prep **Batch**	WXX7299	
			Method	Cyanide Distillation Kone Lab	
			Date	07/01/2009	
Original	1093091001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037001, 1093037002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	0.0019 J	.034	65*	(75-125)			0.050	mg/L	07/02/2009

Batch	WDA1663
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	906525	Matrix Spike	**Printed Date/Time**		07/21/2009 8:49
			Prep	**Batch**	MXX21880
				Method	DW Digest for Metals on ICP-M
				Date	07/06/2009
Original	1093030002				
Matrix	Drinking Water				

QC results affect the following production samples:

1093037003, 1093037004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Copper	MS	1420	2400	98	(70-130)			1000	ug/L	07/08/2009
Lead	MS	2.29	953	95	(70-130)			1000	ug/L	07/08/2009

Batch	MMS5975
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	909013	Matrix Spike	**Printed Date/Time**	07/21/2009	8:49
			Prep **Batch**	MXX21923	
			Method	DW Digest for Metals on ICP-M	
			Date	07/16/2009	
Original	909419				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037007, 1093037008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	57.1 J	9070	90	(70-130)			10000	ug/L	07/17/2009
Arsenic	MS	ND	7940	79	(70-130)			10000	ug/L	07/17/2009
Beryllium	MS	ND	733	73	(70-130)			1000	ug/L	07/17/2009
Cadmium	MS	ND	923	92	(70-130)			1000	ug/L	07/17/2009
Chromium	MS	ND	3670	92	(70-130)			4000	ug/L	07/17/2009
Copper	MS	ND	9430	94	(70-130)			10000	ug/L	07/17/2009
Lead	MS	ND	8870	89	(70-130)			10000	ug/L	07/17/2009
Molybdenum	MS	ND	2730	68*	(70-130)			4000	ug/L	07/17/2009
Nickel	MS	434	9630	92	(70-130)			10000	ug/L	07/17/2009
Selenium	MS	ND	6870	69*	(70-130)			10000	ug/L	07/17/2009
Silver	MS	ND	154	15*	(70-130)			1000	ug/L	07/17/2009
Thallium	MS	ND	84.6	85	(70-130)			100	ug/L	07/17/2009
Zinc	MS	ND	11500	115	(70-130)			10000	ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	909014	Bench Spike DIGESTED	**Printed Date/Time**		07/21/2009 8:49
			Prep	**Batch**	MXX21923
				Method	DW Digest for Metals on ICP-M
				Date	07/16/2009
Original	909419				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093037007, 1093037008

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Molybdenum	BND	ND	12900	104	(70-130)			12500	ug/L	07/17/2009
Selenium	BND	ND	31900	102	(70-130)			31300	ug/L	07/17/2009
Silver	BND	ND	3320	106	(70-130)			3130	ug/L	07/17/2009

Batch MMS5987
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276-6178

1093037

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09-1006	KLI Proj. #: 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	Preservative: NaOH, 4°C Effluent samples contain L- Ascorbic Acid	Type of Container: 500 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN013	Influent	1	6/25/9	0845		1 A
MOA09TCN014	Effluent	1	6/25/9	0840		2 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/26/9 1058	hand	[illegible]	6/26 1058
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/26 1125	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	~~6/26~~ 6/26/09 1125

700 / TB=5.4

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093037

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** ~~1 L~~ 250 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET006	Influent	1	6/25/9	0845		3 A 5 A 8 A
MOA09MET007	Effluent	1	6/25/9	0840		4 A 6 A 8 A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/26/9 1058	hand		6/26 1055
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/26 1125	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			Joe Red	6/26/09 1125

SAMPLED BY (NAME/SIGNATURE): _____

SGS

1093037

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	
			If this is for PWS, provide **PWSID:**
		✓	Payment received: $ by Check or Credit Card
		✓	Will courier charges apply?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: 6-26-09

Received Time: 1125

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	5.4 °C	70d
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (√ *if applicable*)
- Extra Sample Volume?
- Limited Sample Volume?
- Multi-Incremental Samples?
- ✓ Lab-filtered for dissolved
- Ref Lab required for
- Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM):

Individual contacted:

Via: Phone / Fax / E-mail (*circle one*)

Date/Time:

Reason for contact:

Change Order Required? Yes / No

Notes:

Completed by (sign): [signature] **(print):** JAMES MOCCHITY

Login proof: Self-check completed ✓ **Peer-reviewer's Initials** JSR

Form # F004r20 revised 05/05/2009

SGS

1093037

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1,2	A	1	CN							2						✓										✓			
3,4	A	1	TOTAL METALS					2							✓							✓							
5,6	A	1	Filter					2							✓					✓									
7,8	A	1	Diss Metals									2?			✓							✓							
			Bottle Totals					4		2		2																	

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 6-26-09

Form # F004r20 revised 05/05/2009

APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A2 Asbestos

Lab/Cor, Inc.

JUNE SAMPLING, ASBESTOS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09ASB001	INFLUENT	SAMPLE
MOA09ASB002	EFFLUENT	SAMPLE
MOA09ASB003	SLUDGE	SAMPLE

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093099

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/27/2009	14:52
Workorder	1093099	516.01			

Sample ID		**Client Sample ID**

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

1093099001	**PS**	**MOA09ASB001 Influent**

100.1 - Asbestos was analyzed by LabCor in Seattle, WA.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093099	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 27, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY: SGS Enviro Services
~~Solar Environmental Services~~
~~7401 Meadow Street~~
~~Anchorage, AK 99507~~
~~Attn: Grace Torrijos~~
~~(907)349-7705~~
200 W Potter
ANCH, AK 99518
(907) 562-2343

FROM:
Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Gary Lawley
(907)276-6178

1093099

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK09- 1005 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: ASBESTOS TEM. Method detection limit to be determined.

MATRIX: Water | **Preservative:** None, 4°C | **Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09ASB001	Influent	1	6/23/9	0700		1 A
MOA09ASB002	Effluent	1	6/23/9	0700		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/09 1030	hand		6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24 1300	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				6/24/09 1300

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\O-G_ASB-SVLs-PESs-MET-DXNsDRY09COC.wpd

MOA09ASB002 was not delivered on 6/24/09 - Added on 6/25/09
hand delivered by [illegible] 6/25/09 1400
[illegible] 6-25-09 1400

SGS

1093099

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
		✓	Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**_____
	✓		Payment received: $_____ by Check or Credit Card
	✓		Will courier charges apply?
✓			Data package required? (Level: 1 / 2 / 3 / 4)
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

Notes: _____

TAT (circle one): Standard -or- Rush

Received Date: 6/30/09

Received Time: JJR 1300

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	Chilled °C	
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

(Client) / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: (√ *if applicable*)

_____Extra Sample Volume?
_____Limited Sample Volume?
_____Multi-Incremental Samples?
_____Lab-filtered for dissolved_____
_____Ref Lab required for_____
_____Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes:

Completed by (sign): _____ **(print):** Joe Rul.

Login proof: Self-check completed JJR **Peer-reviewer's Initials** _____

Form # F004r20 revised 05/05/2009

SGS

1093099

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1	A	1	~~Gross~~ TSR asbestos			1									✓					✓									
Bottle Totals						1																							

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: Joe Rul

Date: ~~6/29~~ 6/30/09

Form # F004r20 revised 05/05/2009

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Analysis Report Cover

Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

Job Number: 091551 **SEA**

Report Number: 091551R02
Report Date: 7/2/2009

Client: **SGS Environmental Services**
Address: **200 W Potter Dr**
Anchorage, AK 99518-1605
Project Name: KLI-AWWU
Project No.:
PO Number: 1093099
PWS ID: KLI# 516.01
Reference No.:
Report Note:
The Sample Number changed per Forest Taylor request via email on 07/02/09.

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
091551 - S1	MOA09ASB001 - WA Water ID# 119-96350	EPA 100.1 - Non-Potable Water-AK		7/1/2009

EPA 100.1 - Non-Potable Water-AK - Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.1. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature of less than 10ºC, are subjected to ozone/UV treatment.

Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Filters were etched lightly, air-dried, and carbon-coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper TEM grids and allowed to dissolve in acetone until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. Grid opening measurements were performed at a magnification of approximately 550X.

Disclaimer The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

X

Kate March
Analyst

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

EPA 100.1 - Non-Potable Water-AK Summary Data

Job Number: 091551 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU

Report Number: 091551R02
Date Received: 7/1/2009

Lab/Cor Sample No.: S1
Client Sample No.: MOA09ASB001
Description: WA Water ID# 119-96350
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 0.5 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 20
Average Grid Opening Area : 0.01384
Area Analyzed (mm2) : 0.2768
Analytical Sens. (struc/MFL>10-um) : 1.395
Dectection Limit. (struc/MFL>10-um) : 4.17

Analyst(s)	Analysis Date	Microscope	Magnification
MH	7/2/2009	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 1.395	0 - 5.144 - Poisson	0	
TEM Water Chrysotile	< 1.395	0 - 5.144 - Poisson	0	
TEM Water Total	< 1.395	0 - 5.144 - Poisson	0	

Reviewed by:

x

Kate March
Analyst

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

EPA 100.1 - Non-Potable Water-AK Raw Data

Job Number: 091551 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU
Project No.:

Report Number: 091551R02
Date Received: 7/1/2009

Lab/Cor Sample No: S1
Client Sample No: MOA09ASB001
Description: WA Water ID# 119-96350

Analyst(s)	Analysis Date	Microscope	Magnification
MH	7/2/2009	Philips 410	10000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	A4				NSD							
G5	2	B4				NSD							
G5	3	C4				NSD							
G5	4	D4				NSD							
G5	5	E4				NSD							
G5	6	F4				NSD							
G5	7	G4				NSD							
G5	8	H4				NSD							
G5	9	I4				NSD							
G5	10	J4				NSD							
G6	11	A4				NSD							
G6	12	B4				NSD							
G6	13	C4				NSD							
G6	14	D4				NSD							
G6	15	E4				NSD							
G7	16	F2				NSD							
G7	17	G2				NSD							
G7	18	H2				NSD							
G7	19	I2				NSD							
G7	20	J2				NSD							

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

EPA 100.1 - Non-Potable Water-AK Raw Data

Job Number: 091551 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU
Project No.:

Report Number: 091551R02
Date Received: 7/1/2009

Count Categories

Water_Amph	TEM Water Amphibole	WATER_Chrys	TEM Water Chrysotile	WATER_Total	TEM Water Total

Reviewed by:

x

Kate March
Analyst

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Analysis Report Cover

Final Report

A Professional Service Corporation in the Northwest

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

Job Number: 091469 **SEA**
Client: SGS Environmental Services
Address: 200 W Potter Dr
Anchorage, AK 99518-1605
Project Name: KLI-AWWU
Project No.:
PO Number: 1092878
PWS ID: KLI# 516.01
Reference No.:

Report Number: 091469R01
Report Date: 6/30/2009

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
091469 - S1	MOA09ASB002 - WA Water ID# 119-96345	EPA 100.1 - Non-Potable Water-AK		6/26/2009

EPA 100.1 - Non-Potable Water-AK - Preparation and analysis of the above samples was conducted in accordance with the EPA method #100.1. In this method, samples are taken from an affected water supply to measure the amount of asbestos contamination in the system. Samples received 48 hours after collection, or with a sample received temperature of less than 10ºC, are subjected to ozone/UV treatment.

Each sample was shaken, then sonicated briefly in a Branson 2200 sonicator to distribute particulate evenly. Several aliquots were filtered onto 0.22 µm, 25 mm diameter mixed cellulose ester filters. Filters were etched lightly, air-dried, and carbon-coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper TEM grids and allowed to dissolve in acetone until cleared of filter debris.

Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification of 10,000x, with an accelerating voltage of 100 KV. Grid opening measurements were performed at a magnification of approximately 550X.

Disclaimer The results reported relate only to the samples tested or analyzed. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,

x

Minh Huynh
Analyst

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

EPA 100.1 - Non-Potable Water-AK Summary Data

Job Number: 091469 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU

Report Number: 091469R01
Date Received: 6/26/2009

Lab/Cor Sample No.: S1
Client Sample No.: MOA09ASB002
Description: WA Water ID# 119-96345
Filter Fraction: 1 **Aliquot Dilution:** 1
Volume Taken: 1 **Final Dilution:** 1

Sample Area/Mass/Volume (ml) : 800
Lab Filter Area (mm2) : 193
Grid Openings Analyzed : 20
Average Grid Opening Area : 0.01384
Area Analyzed (mm2) : 0.2768
Analytical Sens. (struc/MFL>10-um) : 0.697
Dectection Limit. (struc/MFL>10-um) : 2.085

Analyst(s)	Analysis Date	Microscope	Magnification
MH	6/30/2009	Philips 410	10000

Structure Type	Concen-tration MFL>10-um	95% Confidence Interval MFL>10-um	Structure Count[1] Prim/Total	
TEM Water Amphibole	< 0.697	0 - 2.572 - Poisson	0	
TEM Water Chrysotile	< 0.697	0 - 2.572 - Poisson	0	
TEM Water Total	< 0.697	0 - 2.572 - Poisson	0	

Reviewed by:

x

Minh Huynh
Analyst

* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] * [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

Lab/Cor, Inc.
7619 6th Ave NW
Seattle, WA 98117

Final Report

Phone: (206) 781-0155
Fax: (206) 789-8424
http://www.labcor.net

A Professional Service Corporation in the Northwest

EPA 100.1 - Non-Potable Water-AK Raw Data

Job Number: 091469 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU
Project No.:

Report Number: 091469R01
Date Received: 6/26/2009

Lab/Cor Sample No: S1
Client Sample No: MOA09ASB002
Description: WA Water ID# 119-96345

Analyst(s)	Analysis Date	Microscope	Magnification
MH	6/30/2009	Philips 410	10000

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	1	A7				NSD							
G5	2	B7				NSD							
G5	3	C7				NSD							
G5	4	D7				NSD							
G5	5	E7				NSD							
G5	6	F7				NSD							
G5	7	G7				NSD							
G5	8	H7				NSD							
G5	9	I7				NSD							
G5	10	J7				NSD							
G6	11	F8				NSD							
G6	12	G8				NSD							
G6	13	H8				NSD							
G6	14	I8				NSD							
G6	15	J8				NSD							
G7	16	E4				NSD							
G7	17	F4				NSD							
G7	18	G4				NSD							
G7	19	H4				NSD							
G7	20	I4				NSD							

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Final Report

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Phone: (206) 781-0155
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EPA 100.1 - Non-Potable Water-AK Raw Data

Job Number: 091469 **SEA**
Client: SGS Environmental Services
Project Name: KLI-AWWU
Project No.:

Report Number: 091469R01
Date Received: 6/26/2009

Count Categories

Water_Amph	TEM Water Amphibole	WATER_Chrys	TEM Water Chrysotile	WATER_Total	TEM Water Total

Reviewed by:

x

Minh Huynh
Analyst

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
~~Solar Environmental Services~~ SGS Enviro Serv ~~7401 Meadow Street,~~ 200 W. 34th ~~Anchorage, AK 99507,~~ Anch, AK ~~Attn: Grace Torrijos~~ Attn. Heidi Geni ~~(907)349-7705~~ (907) 562-2342	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1005	**KLI Proj. #:** 516.01

ANALYSIS TYPE: ASBESTOS PLM. Method detection limit to be determined.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09ASB003	Sludge ✓	1	6/23/9	0912		1A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25 1400	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6-25-09

SAMPLED BY (NAME/SIGNATURE): _____ 1400

APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A3 Enterococci

Spectra Laboratories

JUNE SAMPLING, ENTEROCOCCI

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09ENT001	EFFLUENT REP-1	SAMPLE
MOA09ENT002	EFFLUENT REP-2	SAMPLE

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/26/2009

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

P.O.#: AK09-1007
Project: 516.01
Sample Matrix: Water
Date Sampled: 06/23/2009
Date Received: 06/24/2009
Spectra Project: 2009060439

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09ENT001/Rep 1	1	Total Entercocci by MPN	< 2	CFU/100ml	SM 9230B
MOA09ENT002/Rep 1	2	Total Entercocci by MPN	< 2	CFU/100ml	SM 9230B
MOA09ENT001/Rep 2	3	Total Entercocci by MPN	< 2	CFU/100ml	SM 9230B
MOA09ENT002/Rep 2	4	Total Entercocci by MPN	< 2	CFU/100ml	SM 9230B

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/snb

2009060439

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1007	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Enterococci by MPN (SM 9230B)

MATRIX: Water	**Preservative:** 4°C Effluent samples contain $Na_2S_2O_3$	**Type of Container:** 125-mL Bac-T bottles

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09ENT001 ✓	Effluent-1	2	6/23/09	1400		
MOA09ENT002 ✓	Effluent-2	2	6/23/09	1400		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/23/09 1450	HAND	[signature]	6-23-09 1950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/23/09 2200			
[signature]	~~6/24/09 1450~~	Gold Star		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]				

SAMPLED BY (NAME/SIGNATURE): _____

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, July Sampling

B1 Oil & Grease, Cyanide, Metals, Priority Pollutants, Dioxin, Pesticides, and Hydrocarbons

SGS North America, Inc.

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

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09VOP020 - 027	INFLUENT	SAMPLE (COMPOSITE)
MOA09VOP028 - 035 *	EFFLUENT	SAMPLE (COMPOSITE)
MOA09VOP036	C-STATION	FIELD BLANK
MOA09VOP037	TRIP BLANK	TRIP BLANK
MOA09VOP038	SLUDGE	SAMPLE
MOA09DXN004	INFLUENT	SAMPLE
MOA09DXN005	EFFLUENT	SAMPLE
MOA09DXN006	SLUDGE	SAMPLE
MOA09SVL004	INFLUENT	SAMPLE
MOA09SVL005	EFFLUENT	SAMPLE
MOA09SVL006	SLUDGE	SAMPLE
MOA09PES005	INFLUENT	SAMPLE
MOA09PES006	EFFLUENT	SAMPLE
MOA09PES007	SLUDGE	SAMPLE
MOA09PST004	INFLUENT	SAMPLE
MOA09PST005	EFFLUENT	SAMPLE

JULY SAMPLING, OIL&GREASE, CYANIDE AND METALS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09O&G003	INFLUENT	SAMPLE
MOA09O&G004	EFFLUENT	SAMPLE
MOA09TCN015	INFLUENT	SAMPLE
MOA09TCN016	EFFLUENT	SAMPLE
MOA09TCN017	INFLUENT	SAMPLE
MOA09TCN018	EFFLUENT	SAMPLE
MOA09TCN019	INFLUENT	SAMPLE
MOA09TCN020	EFFLUENT	SAMPLE
MOA09MET008	INFLUENT	SAMPLE
MOA09MET009	EFFLUENT	SAMPLE
MOA09MET010	SLUDGE	SAMPLE
MOA09MET011	INFLUENT	SAMPLE
MOA09MET012	EFFLUENT	SAMPLE
MOA09MET013	INFLUENT	SAMPLE
MOA09MET014	EFFLUENT	SAMPLE

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093689

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	9/9/2009	8:18
Workorder	1093689	516.01			

Sample ID	**Client Sample ID**

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

1093689001 PS MOA09VOP38 Sludge

624 - VOC was analyzed by TestAmerica in Denver, CO.

1093689002 PS MOA09SVL006 Sludge

8270D - Elevated PQLs due to sample matrix.
8270D - LCS recovery is outside of QC criteria for multiple analytes (biased low).

1093689003 PS MOA09DXN006 Sludge

8280A - 2,3,7,8-TCDD was analyzed by SGS in Wilmington, NC.

1093689004 PS MOA09PES007 Sludge

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.
8141 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

1093689005 PS MOA09MET010 Sludge

Cyanide was analyzed by Columbia Analytical Services in Kelso, WA.

1093689022 PS MOA09VOP036 C-Station

624 - VOC was analyzed by TestAmerica in Denver, CO.

1093689029 PS MOA09SVL004 INF

625- Elevated PQLs due to matrix interference with internal standard perylene-d12.
625 - Surrogate recovery for 2,4,6-tribromophenol is outside of QC criteria (biased high) due to sample matrix.

1093689030 PS MOA09SVL005 EFF

625 - Elevated PQLs due to matrix interference with internal standard perylene-d12.
625 - Surrogate recovery for 2,4,6-tribromophenol is outside of QC criteria (biased high) due to sample matrix.

1093689031 PS MOA09DXN004 INF

8280A - 2,3,7,8-TCDD was analyzed by SGS in Wilmington, NC.

1093689032 PS MOA09DXN005 EFF

8280A - 2,3,7,8-TCDD was analyzed by SGS in Wilmington, NC.

1093689035 PS MOA09PST004 INF

614 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

1093689036 PS MOA09PST005 EFF

614 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

1093689037 PS MOA09PES005 INF

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

1093689038 PS MOA09PES006 EFF

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

1093689039 TB TRIP BLANK

624 - VOC was analyzed by TestAmerica in Denver, CO.

1093689040 TB MOA09VOP037

624 - VOC was analyzed by TestAmerica in Denver, CO.

1093689041 PS MOA09VOP20-27 INF CMP#1-8

624 - VOC was analyzed by TestAmerica in Denver, CO.

1093689042 PS MOA09VOP28-35 INF CMP#1-8

624 - VOC was analyzed by TestAmerica in Denver, CO.

1094048019 BMS PHA-SU03MS-080409

6020 - BMS recovery for vanadium is outside of acceptance criteria. Post-digestion spike was successful.
8260B - MS recovery for several analytes does not meet QC criteria. Refer to LCS for accuracy.
7471B - MS/MSD recoveries for mercury were outside of acceptance criteria. Post digestion spike was successful.
8270D - MS/MSD recovery for several analytes is outside of QC criteria. Refer to LCS for accuracy.
8270D - MS/MSD RPD for several analytes does not meet QC criteria. These analytes were not detected above the PQL in the associated samples.

912496 LCS LCS for HBN 217654 [XXX/21306]

8270D - LCS recovery is outside of QC criteria for multiple analytes (biased high). The analytes were not detected above the PQL in the associated samples.

912497 LCSD LCSD for HBN 217654 [XXX/21306

8270D - LCSD recovery is outside of QC criteria for benzo(a)pyrene (biased high). The analyte was not detected above the PQL in the associated samples.

912533 MB MB for HBN 217661 [MXX/21982]

6020 - Al, Fe, Mn, Pb and Zn were detected in the method blank greater than the PQL. Associated sample concentrations were all 10x greater than the contamination.

912535 MS 09CLR021-01SL(1093654001MS)

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	9/9/2009	8:18
Workorder	1093689	516.01			

Sample ID		Client Sample ID

6020 - MS recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.
6020 - MS/MSD RPD for Ba and Cr do not meet QC criteria. Sample and duplicate RPD do not meet criteria for BA and Cr. The parent sample is non-homogeneous for barium and chromium.

912536 **MSD** **09CLR021-01SL(1093654001MSD)**

6020 - MS/MSD RPD for Ba and Cr do not meet QC criteria. Sample and duplicate RPD do not meet criteria for BA and Cr. The parent sample is non-homogeneous for barium and chromium.
6020 - MSD recoveries for several analytes are outside of acceptance criteria. Post-digestion spike was successful.

912538 **DUP** **09CLR021-01SL(1093654001DUP)**

6020 - MS/MSD RPD for Ba and Cr do not meet QC criteria. Sample and duplicate RPD do not meet criteria for Ba and Cr. The parent sample is non-homogeneous for barium and chromium.

913255 **MB** **MB for HBN 217854 [MXX/21997]**

200.8 - Zinc was detected in the method blank greater than the PQL.

913257 **MS** **MOA09MET009 EFF(1093689028MS)**

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

913329 **LCS** **LCS for HBN 217866 [XXX/21347]**

8270D - LCS recovery is outside of QC criteria for multiple analytes (biased low). Samples re-extracted under batch XXX21401.

913522 **CCV** **CCV for HBN 217906 (XMS/5018)**

8270D - CCV recoveries are outside of QC criteria for multiple analytes (biased high). The analytes were not detected above the PQL in the associated samples.

914071 **MS** **A11-SS01-072309(1093800041MS)**

8270D - MS recovery for benzo(a)pyrene is outside of QC criteria (biased high). Refer to LCS for accuracy.

914072 **MSD** **A11-SS01-072309(1093800041MSD)**

8270D - MS/MSD RPD is outside of QC criteria for benzoic acid. The sample was not detected above the PQL in the associated samples.

914964 **LCS** **LCS for HBN 218210 [XXX/21401]**

8270D - LCS recovery is outside of QC criteria for multiple analytes (biased high).

914965 **MS** **PHA-SU03MS-08...(1094048019MS)**

8270D - MS/MSD recovery for several analytes is outside of QC criteria. Refer to LCS for accuracy.
8270D - MS/MSD RPD for several analytes does not meet QC criteria. These analytes were not detected above the PQL in the associated samples.

Case Narrative

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	9/9/2009	8:18
Workorder	1093689	516.01			

Sample ID		**Client Sample ID**
914966	**MSD**	**PHA-SU03MD-0...(1094048020MSD)**

8270D - MS/MSD recovery for several analytes is outside of QC criteria. Refer to LCS for accuracy.
8270D - MS/MSD RPD for several analytes does not meet QC criteria. These analytes were not detected above the PQL in the associated samples.

915297	**CCV**	**CCV for HBN 218279 (XMS/5028)**

8270D - CCV recovery is outside of QC criteria for benzo(k)fluoranthene (biased high).

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093689	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	September 09, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

Detectable Results Summary

Print Date: 9/9/2009 8:18 am

Client Sample ID: **MOA09MET010 Sludge**

SGS Ref. #: 1093689005

Metals by ICP/MS

Parameter	Result	Units
Antimony	1.75	mg/Kg
Arsenic	4.00	mg/Kg
Cadmium	1.29	mg/Kg
Chromium	12.2	mg/Kg
Copper	231	mg/Kg
Lead	19.2	mg/Kg
Molybdenum	5.97	mg/Kg
Nickel	13.9	mg/Kg
Selenium	2.23	mg/Kg
Silver	6.31	mg/Kg
Zinc	595	mg/Kg

Client Sample ID: **MOA09TCN016 EFF**

SGS Ref. #: 1093689024

Waters Department

Parameter	Result	Units
Cyanide	0.016	mg/L

Client Sample ID: **MOA09MET008 INF**

SGS Ref. #: 1093689025

Metals by ICP/MS

Parameter	Result	Units
Copper	32.6	ug/L
Lead	1.61	ug/L
Nickel	2.79	ug/L
Zinc	62.7	ug/L

Client Sample ID: **MOA09MET009 EFF**

SGS Ref. #: 1093689026

Metals by ICP/MS

Parameter	Result	Units
Copper	34.9	ug/L
Lead	1.80	ug/L
Nickel	2.98	ug/L
Zinc	81.4	ug/L

Client Sample ID: **MOA09MET008 INF**

SGS Ref. #: 1093689027

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.705	ug/L
Nickel	2.72	ug/L
Zinc	24.3	ug/L
Copper	19.3	ug/L

Detectable Results Summary

Print Date: 9/9/2009 8:18 am

Client Sample ID: **MOA09MET009 EFF**
SGS Ref. #: 1093689028

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.917	ug/L
Nickel	2.77	ug/L
Zinc	58.4	ug/L
Copper	26.8	ug/L

Client Sample ID: **MOA09SVL004 INF**
SGS Ref. #: 1093689029

Semivolatile Organic GC/MS

Parameter	Result	Units
Phenol	0.0282	mg/L
Benzyl alcohol	0.0255	mg/L
3&4-Methylphenol (p&m-Cresol)	0.0582	mg/L
Benzoic acid	0.148	mg/L

Client Sample ID: **MOA09SVL005 EFF**
SGS Ref. #: 1093689030

Semivolatile Organic GC/MS

Parameter	Result	Units
Benzyl alcohol	0.0258	mg/L
3&4-Methylphenol (p&m-Cresol)	0.0781	mg/L
Benzoic acid	0.141	mg/L

Client Sample ID: **MOA09O&G003 INF**
SGS Ref. #: 1093689033

Waters Department

Parameter	Result	Units
Oil & Grease HEM	85.2	mg/L

Client Sample ID: **MOA09O&G004 EFF**
SGS Ref. #: 1093689034

Waters Department

Parameter	Result	Units
Oil & Grease HEM	64.9	mg/L

SGS Ref.#	1093689002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 5:55
Client Sample ID	MOA09SVL006 Sludge	**Received Date/Time**	07/28/2009 12:05
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

8270D - Elevated PQLs due to sample matrix.

8270D - LCS recovery is outside of QC criteria for multiple analytes (biased low).

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Aniline	ND	820	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Phenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Bis(2-Chloroethyl)ether	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Chlorophenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
1,3-Dichlorobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
1,4-Dichlorobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Benzyl alcohol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
1,2-Dichlorobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Methylphenol (o-Cresol)	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Bis(2chloro1methylethyl)Ether	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
3&4-Methylphenol (p&m-Cresol)	ND	410	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
N-Nitroso-di-n-propylamine	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Hexachloroethane	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Nitrobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Isophorone	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Nitrophenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4-Dimethylphenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Benzoic acid	ND	615	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Bis(2-Chloroethoxy)methane	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
1,2,4-Trichlorobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Naphthalene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Chloroaniline	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Hexachlorobutadiene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Chloro-3-methylphenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4-Dichlorophenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Methylnaphthalene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH

SGS Ref.#	1093689002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 5:55
Client Sample ID	MOA09SVL006 Sludge	**Received Date/Time**	07/28/2009 12:05
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Hexachlorocyclopentadiene	ND	287	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4,6-Trichlorophenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4,5-Trichlorophenol	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Chloronaphthalene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Nitroaniline	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Dimethylphthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Acenaphthylene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,6-Dinitrotoluene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
3-Nitroaniline	ND	205	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Acenaphthene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4-Dinitrophenol	ND	1230	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Nitrophenol	ND	410	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Dibenzofuran	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2,4-Dinitrotoluene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Diethylphthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Chlorophenyl-phenylether	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Fluorene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Nitroaniline	ND	1230	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
2-Methyl-4,6-dinitrophenol	ND	820	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
N-Nitrosodiphenylamine	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
4-Bromophenyl-phenylether	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Hexachlorobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Pentachlorophenol	ND	820	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Phenanthrene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Anthracene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Di-n-butylphthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Fluoranthene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Pyrene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Azobenzene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Butylbenzylphthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH

SGS Ref.#	1093689002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 5:55
Client Sample ID	MOA09SVL006 Sludge	**Received Date/Time**	07/28/2009 12:05
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
3,3-Dichlorobenzidine	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Benzo(a)Anthracene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Chrysene	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
bis(2-Ethylhexyl)phthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
di-n-Octylphthalate	ND	103	mg/Kg	SW8270D	A		08/04/09	08/07/09	JDH
Benzo[b]Fluoranthene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Benzo[k]fluoranthene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Benzo[a]pyrene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Indeno[1,2,3-c,d] pyrene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Dibenzo[a,h]anthracene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Benzo[g,h,i]perylene	ND	205	mg/Kg	SW8270D	A		08/04/09	08/19/09	MCM
Surrogates									
2-Fluorophenol <surr>	42.6		%	SW8270D	A	41-84	08/04/09	08/07/09	JDH
Phenol-d6 <surr>	57.5		%	SW8270D	A	48-94	08/04/09	08/07/09	JDH
Nitrobenzene-d5 <surr>	52.7		%	SW8270D	A	37-100	08/04/09	08/07/09	JDH
2-Fluorobiphenyl <surr>	74.3		%	SW8270D	A	45-105	08/04/09	08/07/09	JDH
2,4,6-Tribromophenol <surr>	68.3		%	SW8270D	A	47-125	08/04/09	08/07/09	JDH
Terphenyl-d14 <surr>	73.1		%	SW8270D	A	50-120	08/04/09	08/07/09	JDH
Solids									
Total Solids	29.2		%	SM20 2540G	A			07/30/09	SDP

SGS Ref.#	1093689004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 5:55
Client Sample ID	MOA09PES007 Sludge	**Received Date/Time**	07/28/2009 12:05
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

8141 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Polychlorinated Biphenyls									
Aroclor-1016	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1221	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1232	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1242	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1248	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1254	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Aroclor-1260	ND	170	ug/Kg	SW8082A	A		07/31/09	08/03/09	CDE
Surrogates									
Decachlorobiphenyl <surr>	110		%	SW8082A	A	60-125	07/31/09	08/03/09	CDE
Solids									
Total Solids	29.2		%	SM20 2540G	B			07/30/09	SDP

SGS Ref.#	1093689005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 5:55
Client Sample ID	MOA09MET010 Sludge	**Received Date/Time**	07/28/2009 12:05
Matrix	Soil/Solid (dry weight)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Cyanide was analyzed by Columbia Analytical Services in Kelso, WA.

Parameter		Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals by ICP/MS										
Antimony		1.75	0.326	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Arsenic		4.00	3.26	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Beryllium		ND	0.326	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Cadmium		1.29	0.651	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Chromium		12.2	1.30	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Copper		231	1.95	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Lead	**B**	19.2	0.651	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Molybdenum		5.97	3.26	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Nickel		13.9	0.651	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Selenium		2.23	1.63	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Silver		6.31	0.326	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Thallium		ND	0.0651	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Zinc	**B**	595	3.26	mg/Kg	SW6020	A		07/31/09	08/07/09	NRB
Solids										
Total Solids		29.1		%	SM20 2540G	A			07/30/09	SDP

SGS Ref.#	1093689023		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09TCN015 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/29/09	07/29/09	ACF

SGS Ref.#	1093689024		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09TCN016 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	0.016	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	07/29/09	07/29/09	ACF

SGS Ref.#	1093689025		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09MET008 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	B		08/14/09	08/14/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Copper	32.6	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Lead	1.61	0.200	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Nickel	2.79	2.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Zinc	62.7	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB

SGS Ref.#	1093689026		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09MET009 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	B		08/14/09	08/14/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Copper	34.9	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Lead	1.80	0.200	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Nickel	2.98	2.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB
Zinc	81.4	5.00	ug/L	EP200.8	B		08/04/09	08/06/09	NRB

SGS Ref.#	1093689027		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09MET008 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/14/09	08/14/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.705	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.72	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	24.3	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	19.3	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093689028		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09MET009 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/14/09	08/14/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.917	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	ND	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.77	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	58.4	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	26.8	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093689029		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09SVL004 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

625- Elevated PQLs due to matrix interference with internal standard perylene-d12.

625 - Surrogate recovery for 2,4,6-tribromophenol is outside of QC criteria (biased high) due to sample matrix.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Aniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Phenol	0.0282	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2-Chloroethyl)ether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Chlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,3-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,4-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzyl alcohol	0.0255	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,2-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methylphenol (o-Cresol)	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2chloro1methylethyl)Ether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
3&4-Methylphenol (p&m-Cresol)	0.0582	0.0204	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
N-Nitroso-di-n-propylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachloroethane	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Nitrobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Isophorone	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Nitrophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dimethylphenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzoic acid	0.148	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2-Chloroethoxy)methane	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,2,4-Trichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Naphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chloroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachlorobutadiene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chloro-3-methylphenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methylnaphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH

SGS Ref.#	1093689029		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09SVL004 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Hexachlorocyclopentadiene	ND	0.0306	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4,6-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4,5-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Chloronaphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dimethylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Acenaphthylene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,6-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
3-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Acenaphthene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dinitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Nitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dibenzofuran	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Diethylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chlorophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Fluorene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methyl-4,6-dinitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
N-Nitrosodiphenylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Bromophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Pentachlorophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Phenanthrene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Anthracene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Di-n-butylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Fluoranthene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Pyrene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Azobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Butylbenzylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH

SGS Ref.#	1093689029		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09SVL004 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
3,3-Dichlorobenzidine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo(a)Anthracene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Chrysene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
bis(2-Ethylhexyl)phthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
di-n-Octylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[b]Fluoranthene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[k]fluoranthene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[a]pyrene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Indeno[1,2,3-c,d] pyrene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dibenzo[a,h]anthracene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[g,h,i]perylene	ND	0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Surrogates									
2-Fluorophenol <surr>	60.3		%	EPA 625	A	21-88	07/31/09	08/04/09	JDH
Phenol-d6 <surr>	70		%	EPA 625	A	28-97	07/31/09	08/04/09	JDH
Nitrobenzene-d5 <surr>	77.5		%	EPA 625	A	41-110	07/31/09	08/04/09	JDH
2-Fluorobiphenyl <surr>	105		%	EPA 625	A	50-110	07/31/09	08/04/09	JDH
2,4,6-Tribromophenol <surr>	147	!	%	EPA 625	A	45-124	07/31/09	08/04/09	JDH
Terphenyl-d14 <surr>	131		%	EPA 625	A	52-135	07/31/09	08/04/09	JDH

SGS Ref.#	1093689030		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09SVL005 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

625 - Elevated PQLs due to matrix interference with internal standard perylene-d12.

625 - Surrogate recovery for 2,4,6-tribromophenol is outside of QC criteria (biased high) due to sample matrix.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Aniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Phenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2-Chloroethyl)ether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Chlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,3-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,4-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzyl alcohol	0.0258	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,2-Dichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methylphenol (o-Cresol)	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2chloro1methylethyl)Ether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
3&4-Methylphenol (p&m-Cresol)	0.0781	0.0204	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
N-Nitroso-di-n-propylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachloroethane	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Nitrobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Isophorone	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Nitrophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dimethylphenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzoic acid	0.141	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Bis(2-Chloroethoxy)methane	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
1,2,4-Trichlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Naphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chloroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachlorobutadiene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chloro-3-methylphenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methylnaphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH

SGS Ref.#	1093689030		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09SVL005 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS									
Hexachlorocyclopentadiene	ND	0.0306	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4,6-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4,5-Trichlorophenol	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Chloronaphthalene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dimethylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Acenaphthylene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,6-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
3-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Acenaphthene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dinitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Nitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dibenzofuran	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2,4-Dinitrotoluene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Diethylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Chlorophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Fluorene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Nitroaniline	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
2-Methyl-4,6-dinitrophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
N-Nitrosodiphenylamine	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
4-Bromophenyl-phenylether	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Hexachlorobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Pentachlorophenol	ND	0.0510	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Phenanthrene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Anthracene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Di-n-butylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Fluoranthene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Pyrene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Azobenzene	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Butylbenzylphthalate	ND	0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH

SGS Ref.#	1093689030		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09SVL005 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Parameter	Results		PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Semivolatile Organic GC/MS										
3,3-Dichlorobenzidine	ND		0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo(a)Anthracene	ND		0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Chrysene	ND		0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
bis(2-Ethylhexyl)phthalate	ND		0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
di-n-Octylphthalate	ND		0.0102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[b]Fluoranthene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[k]fluoranthene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[a]pyrene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Indeno[1,2,3-c,d] pyrene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Dibenzo[a,h]anthracene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Benzo[g,h,i]perylene	ND		0.102	mg/L	EPA 625	A		07/31/09	08/04/09	JDH
Surrogates										
2-Fluorophenol <surr>	53.7			%	EPA 625	A	21-88	07/31/09	08/04/09	JDH
Phenol-d6 <surr>	65.3			%	EPA 625	A	28-97	07/31/09	08/04/09	JDH
Nitrobenzene-d5 <surr>	67.5			%	EPA 625	A	41-110	07/31/09	08/04/09	JDH
2-Fluorobiphenyl <surr>	98.3			%	EPA 625	A	50-110	07/31/09	08/04/09	JDH
2,4,6-Tribromophenol <surr>	155	!		%	EPA 625	A	45-124	07/31/09	08/04/09	JDH
Terphenyl-d14 <surr>	123			%	EPA 625	A	52-135	07/31/09	08/04/09	JDH

SGS Ref.#	1093689033		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09O&G003 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Oil & Grease HEM	85.2	4.04	mg/L	EPA 1664A	B		08/13/09	08/13/09	RTS

SGS Ref.#	1093689034		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09O&G004 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Oil & Grease HEM	64.9	4.06	mg/L	EPA 1664A	B		08/13/09	08/13/09	RTS

SGS Ref.#	1093689037		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:10
Client Sample ID	MOA09PES005 INF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Polychlorinated Biphenyls									
Aroclor-1016	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1221	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1232	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1242	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1248	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1254	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1260	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Surrogates									
Decachlorobiphenyl <surr>	80		%	SW8082A	C	50-121	07/31/09	08/03/09	CDE

SGS Ref.#	1093689038		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	09/09/2009 8:18
Project Name/#	516.01	**Collected Date/Time**	07/28/2009 9:00
Client Sample ID	MOA09PES006 EFF	**Received Date/Time**	07/28/2009 12:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

608 - Pesticides were analyzed by Columbia Analytical Services in Kelso, WA.

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Polychlorinated Biphenyls									
Aroclor-1016	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1221	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1232	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1242	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1248	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1254	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Aroclor-1260	ND	0.102	ug/L	SW8082A	C		07/31/09	08/03/09	CDE
Surrogates									
Decachlorobiphenyl <surr>	77		%	SW8082A	C	50-121	07/31/09	08/03/09	CDE

SGS Ref.#	912155	Method Blank	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7361
Project Name/#	516.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	07/29/2009

QC results affect the following production samples:

1093689023, 1093689024

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	0.0017 J	0.0050	0.0015	mg/L	07/29/09
Batch	WDA1693				
Method	SM20 4500-CN C,E				
Instrument	Konelab				

SGS Ref.#	912439	Method Blank	**Printed Date/Time**	09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.01			**Method**
Matrix	Soil/Solid (dry weight)			**Date**

QC results affect the following production samples:

1093689002, 1093689004, 1093689005

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Solids					
Total Solids	99.9			%	07/30/09
Batch SPT7971					
Method SM20 2540G					
Instrument					

SGS Ref.#	912458	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	XXX21304	
Project Name/#	516.01		**Method**	SW3520C	
Matrix	Water (Surface, Eff., Ground)		**Date**	07/31/2009	

QC results affect the following production samples:

1093689037, 1093689038

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Polychlorinated Biphenyls					
Aroclor-1016	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1221	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1232	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1242	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1248	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1254	ND	0.100	0.0310	ug/L	08/03/09
Aroclor-1260	ND	0.100	0.0310	ug/L	08/03/09
Surrogates					
Decachlorobiphenyl <surr>	88	50-121		%	08/03/09

Batch XGC6656
Method SW8082A
Instrument HP 5890 Series II ECD SV I F

SGS Ref.#	912494	Method Blank	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21306
Project Name/#	516.01			**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)			**Date**	07/31/2009

QC results affect the following production samples:

1093689029, 1093689030

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	912494 Method Blank		**Printed Date/Time**	09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	XXX21306
Project Name/#	516.01		**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)		**Date**	07/31/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
N-Nitrosodimethylamine	ND	0.0100	0.00310	mg/L	08/04/09
Aniline	ND	0.0500	0.0150	mg/L	08/04/09
Phenol	ND	0.0100	0.00310	mg/L	08/04/09
Bis(2-Chloroethyl)ether	ND	0.0100	0.00310	mg/L	08/04/09
2-Chlorophenol	ND	0.0100	0.00310	mg/L	08/04/09
1,3-Dichlorobenzene	ND	0.0100	0.00310	mg/L	08/04/09
1,4-Dichlorobenzene	ND	0.0100	0.00310	mg/L	08/04/09
Benzyl alcohol	ND	0.0100	0.00310	mg/L	08/04/09
1,2-Dichlorobenzene	ND	0.0100	0.00310	mg/L	08/04/09
2-Methylphenol (o-Cresol)	ND	0.0100	0.00310	mg/L	08/04/09
Bis(2chloro1methylethyl)Ether	ND	0.0100	0.00310	mg/L	08/04/09
3&4-Methylphenol (p&m-Cresol)	ND	0.0200	0.00620	mg/L	08/04/09
N-Nitroso-di-n-propylamine	ND	0.0100	0.00310	mg/L	08/04/09
Hexachloroethane	ND	0.0100	0.00310	mg/L	08/04/09
Nitrobenzene	ND	0.0100	0.00310	mg/L	08/04/09
Isophorone	ND	0.0100	0.00310	mg/L	08/04/09
2-Nitrophenol	ND	0.0100	0.00310	mg/L	08/04/09
2,4-Dimethylphenol	ND	0.0100	0.00310	mg/L	08/04/09
Benzoic acid	ND	0.0500	0.0250	mg/L	08/04/09
Bis(2-Chloroethoxy)methane	ND	0.0100	0.00310	mg/L	08/04/09
1,2,4-Trichlorobenzene	ND	0.0100	0.00310	mg/L	08/04/09
Naphthalene	ND	0.0100	0.00310	mg/L	08/04/09
4-Chloroaniline	ND	0.0100	0.00310	mg/L	08/04/09
Hexachlorobutadiene	ND	0.0100	0.00310	mg/L	08/04/09
4-Chloro-3-methylphenol	ND	0.0100	0.00310	mg/L	08/04/09
2,4-Dichlorophenol	ND	0.0100	0.00310	mg/L	08/04/09
2-Methylnaphthalene	ND	0.0100	0.00310	mg/L	08/04/09
Hexachlorocyclopentadiene	ND	0.0300	0.00940	mg/L	08/04/09
2,4,6-Trichlorophenol	ND	0.0100	0.00310	mg/L	08/04/09
2,4,5-Trichlorophenol	ND	0.0100	0.00310	mg/L	08/04/09
2-Chloronaphthalene	ND	0.0100	0.00310	mg/L	08/04/09
2-Nitroaniline	ND	0.0100	0.00310	mg/L	08/04/09
Dimethylphthalate	ND	0.0100	0.00310	mg/L	08/04/09
Acenaphthylene	ND	0.0100	0.00310	mg/L	08/04/09
2,6-Dinitrotoluene	ND	0.0100	0.00310	mg/L	08/04/09
3-Nitroaniline	ND	0.0100	0.00310	mg/L	08/04/09
Acenaphthene	ND	0.0100	0.00310	mg/L	08/04/09
2,4-Dinitrophenol	ND	0.0500	0.0150	mg/L	08/04/09
4-Nitrophenol	ND	0.0500	0.0150	mg/L	08/04/09

SGS Ref.#	912494 Method Blank	**Printed Date/Time**	09/09/2009 8:18	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	XXX21306
Project Name/#	516.01		**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)		**Date**	07/31/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
Dibenzofuran	ND	0.0100	0.00310	mg/L	08/04/09
2,4-Dinitrotoluene	ND	0.0100	0.00310	mg/L	08/04/09
Diethylphthalate	ND	0.0100	0.00310	mg/L	08/04/09
4-Chlorophenyl-phenylether	ND	0.0100	0.00310	mg/L	08/04/09
Fluorene	ND	0.0100	0.00310	mg/L	08/04/09
4-Nitroaniline	ND	0.0100	0.00310	mg/L	08/04/09
2-Methyl-4,6-dinitrophenol	ND	0.0500	0.0150	mg/L	08/04/09
N-Nitrosodiphenylamine	ND	0.0100	0.00310	mg/L	08/04/09
4-Bromophenyl-phenylether	ND	0.0100	0.00310	mg/L	08/04/09
Hexachlorobenzene	ND	0.0100	0.00310	mg/L	08/04/09
Pentachlorophenol	ND	0.0500	0.0150	mg/L	08/04/09
Phenanthrene	ND	0.0100	0.00310	mg/L	08/04/09
Anthracene	ND	0.0100	0.00310	mg/L	08/04/09
Di-n-butylphthalate	ND	0.0100	0.00310	mg/L	08/04/09
Fluoranthene	ND	0.0100	0.00310	mg/L	08/04/09
Pyrene	ND	0.0100	0.00310	mg/L	08/04/09
Azobenzene	ND	0.0100	0.00310	mg/L	08/04/09
Butylbenzylphthalate	ND	0.0100	0.00310	mg/L	08/04/09
3,3-Dichlorobenzidine	ND	0.0100	0.00310	mg/L	08/04/09
Benzo(a)Anthracene	ND	0.0100	0.00310	mg/L	08/04/09
Chrysene	ND	0.0100	0.00310	mg/L	08/04/09
bis(2-Ethylhexyl)phthalate	ND	0.0100	0.00310	mg/L	08/04/09
di-n-Octylphthalate	ND	0.0100	0.00310	mg/L	08/04/09
Benzo[b]Fluoranthene	ND	0.0100	0.00310	mg/L	08/04/09
Benzo[k]fluoranthene	ND	0.0100	0.00310	mg/L	08/04/09
Benzo[a]pyrene	ND	0.0100	0.00310	mg/L	08/04/09
Indeno[1,2,3-c,d] pyrene	ND	0.0100	0.00310	mg/L	08/04/09
Dibenzo[a,h]anthracene	ND	0.0100	0.00310	mg/L	08/04/09
Benzo[g,h,i]perylene	ND	0.0100	0.00310	mg/L	08/04/09
Surrogates					
2-Fluorophenol <surr>	84.1	21-88		%	08/04/09
Phenol-d6 <surr>	83.6	28-97		%	08/04/09
Nitrobenzene-d5 <surr>	90.5	41-110		%	08/04/09
2-Fluorobiphenyl <surr>	102	50-110		%	08/04/09
2,4,6-Tribromophenol <surr>	106	45-124		%	08/04/09
Terphenyl-d14 <surr>	101	52-135		%	08/04/09

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093021

REQUIRED COMPLETION DATE: 30 days	**P.O.**	**KLI Proj. #:** 516.01

ANALYSIS TYPE: ~~**Total and**~~ GR **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:** None, 4°C	**Type of Container:** 500ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET015	Influent	1	6/25	1600		① A ⑥ A
MOA09MET016	Effluent	1	6/25	1600		② A ⑥ A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25 1640	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6-25-09

SAMPLED BY (NAME/SIGNATURE): _____ AMBIENT 1640

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

SGS Ref.#	912494	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21306
Project Name/#	516.01			**Method**	SW3520C
Matrix	Water (Surface, Eff., Ground)			**Date**	07/31/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

Batch	XMS5018
Method	EPA 625
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	912533	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21982
Project Name/#	516.01			**Method**	SW3050B
Matrix	Soil/Solid (dry weight)			**Date**	07/31/2009

QC results affect the following production samples:

1093689005

Parameter	Results		Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS						
Antimony	ND		0.100	0.0310	mg/Kg	08/07/09
Arsenic	ND		1.00	0.310	mg/Kg	08/07/09
Beryllium	ND		0.100	0.0310	mg/Kg	08/07/09
Cadmium	ND		0.200	0.0620	mg/Kg	08/07/09
Chromium	ND		0.400	0.120	mg/Kg	08/07/09
Copper	ND		0.600	0.180	mg/Kg	08/07/09
Lead	0.536	*	0.200	0.0620	mg/Kg	08/07/09
Molybdenum	ND		1.00	0.310	mg/Kg	08/07/09
Nickel	ND		0.200	0.0620	mg/Kg	08/07/09
Selenium	ND		0.500	0.150	mg/Kg	08/07/09
Silver	ND		0.100	0.0310	mg/Kg	08/07/09
Thallium	ND		0.0200	0.00620	mg/Kg	08/07/09
Zinc	1.12	*	1.00	0.310	mg/Kg	08/07/09

Batch MMS6012
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	912638	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21310
Project Name/#	516.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	07/31/2009

QC results affect the following production samples:

1093689004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Polychlorinated Biphenyls					
Aroclor-1016	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1221	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1232	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1242	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1248	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1254	ND	50.0	15.0	ug/Kg	08/03/09
Aroclor-1260	ND	50.0	15.0	ug/Kg	08/03/09
Surrogates					
Decachlorobiphenyl <surr>	107	60-125		%	08/03/09

Batch XGC6654
Method SW8082A
Instrument HP 6890 Series II ECD SV H F

SGS Ref.#	913255	Method Blank	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21997
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	08/06/09
Arsenic	ND	5.00	2.50	ug/L	08/06/09
Beryllium	0.173 J	0.400	0.130	ug/L	08/06/09
Cadmium	ND	0.500	0.150	ug/L	08/06/09
Chromium	ND	2.00	0.620	ug/L	08/06/09
Copper	ND	1.00	0.310	ug/L	08/06/09
Lead	ND	0.200	0.0620	ug/L	08/06/09
Molybdenum	ND	10.0	3.10	ug/L	08/06/09
Nickel	ND	2.00	0.620	ug/L	08/06/09
Selenium	ND	5.00	1.50	ug/L	08/06/09
Silver	ND	1.00	0.310	ug/L	08/06/09
Thallium	ND	1.00	0.310	ug/L	08/06/09
Zinc	9.24	* 5.00	2.50	ug/L	08/06/09

Batch MMS6017

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913328	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	XXX21347	
Project Name/#	516.01		**Method**	SW3550C	
Matrix	Soil/Solid (dry weight)		**Date**	08/04/2009	

QC results affect the following production samples:

1093689002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	913328 Method Blank	**Printed Date/Time**	09/09/2009 8:18	
Client Name	Kinnetic Laboratories, Inc.	**Prep**	**Batch**	XXX21347
Project Name/#	516.01		**Method**	SW3550C
Matrix	Soil/Solid (dry weight)		**Date**	08/04/2009

Semivolatile Organic GC/MS

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
N-Nitrosodimethylamine	ND	0.250	0.0780	mg/Kg	08/06/09
Aniline	ND	2.00	0.620	mg/Kg	08/06/09
Phenol	ND	0.250	0.0780	mg/Kg	08/06/09
Bis(2-Chloroethyl)ether	ND	0.250	0.0780	mg/Kg	08/06/09
2-Chlorophenol	ND	0.250	0.0780	mg/Kg	08/06/09
1,3-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
1,4-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
Benzyl alcohol	ND	0.250	0.0780	mg/Kg	08/06/09
1,2-Dichlorobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
2-Methylphenol (o-Cresol)	ND	0.250	0.0780	mg/Kg	08/06/09
Bis(2chloro1methylethyl)Ether	ND	0.250	0.0780	mg/Kg	08/06/09
3&4-Methylphenol (p&m-Cresol)	ND	1.00	0.310	mg/Kg	08/06/09
N-Nitroso-di-n-propylamine	ND	0.250	0.0780	mg/Kg	08/06/09
Hexachloroethane	ND	0.250	0.0780	mg/Kg	08/06/09
Nitrobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
Isophorone	ND	0.250	0.0780	mg/Kg	08/06/09
2-Nitrophenol	ND	0.250	0.0780	mg/Kg	08/06/09
2,4-Dimethylphenol	ND	0.250	0.0780	mg/Kg	08/06/09
Benzoic acid	ND	1.50	0.750	mg/Kg	08/06/09
Bis(2-Chloroethoxy)methane	ND	0.250	0.0780	mg/Kg	08/06/09
1,2,4-Trichlorobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
Naphthalene	ND	0.250	0.0780	mg/Kg	08/06/09
4-Chloroaniline	ND	0.250	0.0780	mg/Kg	08/06/09
Hexachlorobutadiene	ND	0.250	0.0780	mg/Kg	08/06/09
4-Chloro-3-methylphenol	ND	0.250	0.0780	mg/Kg	08/06/09
2,4-Dichlorophenol	ND	0.250	0.0780	mg/Kg	08/06/09
2-Methylnaphthalene	ND	0.250	0.0780	mg/Kg	08/06/09
Hexachlorocyclopentadiene	ND	0.700	0.200	mg/Kg	08/06/09
2,4,6-Trichlorophenol	ND	0.250	0.0780	mg/Kg	08/06/09
2,4,5-Trichlorophenol	ND	0.250	0.0780	mg/Kg	08/06/09
2-Chloronaphthalene	ND	0.250	0.0780	mg/Kg	08/06/09
2-Nitroaniline	ND	0.250	0.0780	mg/Kg	08/06/09
Dimethylphthalate	ND	0.250	0.0780	mg/Kg	08/06/09
Acenaphthylene	ND	0.250	0.0780	mg/Kg	08/06/09
2,6-Dinitrotoluene	ND	0.250	0.0780	mg/Kg	08/06/09
3-Nitroaniline	ND	0.500	0.150	mg/Kg	08/06/09
Acenaphthene	ND	0.250	0.0780	mg/Kg	08/06/09
2,4-Dinitrophenol	ND	3.00	0.940	mg/Kg	08/06/09
4-Nitrophenol	ND	1.00	0.310	mg/Kg	08/06/09

SGS Ref.#	913328 Method Blank		**Printed Date/Time**	09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep Batch**	XXX21347
Project Name/#	516.01		**Method**	SW3550C
Matrix	Soil/Solid (dry weight)		**Date**	08/04/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Semivolatile Organic GC/MS					
Dibenzofuran	ND	0.250	0.0780	mg/Kg	08/06/09
2,4-Dinitrotoluene	ND	0.250	0.0780	mg/Kg	08/06/09
Diethylphthalate	ND	0.250	0.0780	mg/Kg	08/06/09
4-Chlorophenyl-phenylether	ND	0.250	0.0780	mg/Kg	08/06/09
Fluorene	ND	0.250	0.0780	mg/Kg	08/06/09
4-Nitroaniline	ND	3.00	0.940	mg/Kg	08/06/09
2-Methyl-4,6-dinitrophenol	ND	2.00	0.620	mg/Kg	08/06/09
N-Nitrosodiphenylamine	ND	0.250	0.0780	mg/Kg	08/06/09
4-Bromophenyl-phenylether	ND	0.250	0.0780	mg/Kg	08/06/09
Hexachlorobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
Pentachlorophenol	ND	2.00	0.620	mg/Kg	08/06/09
Phenanthrene	ND	0.250	0.0780	mg/Kg	08/06/09
Anthracene	ND	0.250	0.0780	mg/Kg	08/06/09
Di-n-butylphthalate	ND	0.250	0.0780	mg/Kg	08/06/09
Fluoranthene	ND	0.250	0.0780	mg/Kg	08/06/09
Pyrene	ND	0.250	0.0780	mg/Kg	08/06/09
Azobenzene	ND	0.250	0.0780	mg/Kg	08/06/09
Butylbenzylphthalate	ND	0.250	0.0780	mg/Kg	08/06/09
3,3-Dichlorobenzidine	ND	0.250	0.0780	mg/Kg	08/06/09
Benzo(a)Anthracene	ND	0.250	0.0780	mg/Kg	08/06/09
Chrysene	ND	0.250	0.0780	mg/Kg	08/06/09
bis(2-Ethylhexyl)phthalate	ND	0.250	0.0780	mg/Kg	08/06/09
di-n-Octylphthalate	ND	0.250	0.0780	mg/Kg	08/06/09
Benzo[b]Fluoranthene	ND	0.250	0.0780	mg/Kg	08/06/09
Benzo[k]fluoranthene	ND	0.250	0.0780	mg/Kg	08/06/09
Benzo[a]pyrene	ND	0.250	0.0780	mg/Kg	08/06/09
Indeno[1,2,3-c,d] pyrene	ND	0.250	0.0780	mg/Kg	08/06/09
Dibenzo[a,h]anthracene	ND	0.250	0.0780	mg/Kg	08/06/09
Benzo[g,h,i]perylene	ND	0.250	0.0780	mg/Kg	08/06/09
Surrogates					
2-Fluorophenol <surr>	62.2	41-84		%	08/06/09
Phenol-d6 <surr>	69.2	48-94		%	08/06/09
Nitrobenzene-d5 <surr>	65.8	37-100		%	08/06/09
2-Fluorobiphenyl <surr>	75.1	45-105		%	08/06/09
2,4,6-Tribromophenol <surr>	79.1	47-125		%	08/06/09
Terphenyl-d14 <surr>	87.9	50-120		%	08/06/09

SGS Ref.#	913328	Method Blank	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	XXX21347
Project Name/#	516.01			**Method**	SW3550C
Matrix	Soil/Solid (dry weight)			**Date**	08/04/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date

Semivolatile Organic GC/MS

Batch	XMS5023
Method	SW8270D
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	915818	Method Blank	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	POGX2278
Project Name/#	516.01			**Method**	EXT_1664OG
Matrix	Water (Surface, Eff., Ground)			**Date**	08/13/2009

QC results affect the following production samples:

1093689033, 1093689034

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Oil & Grease HEM	2.10 J	4.00	1.20	mg/L	08/13/09
Batch POG2458					
Method EPA 1664A					
Instrument					

SGS Ref.#	916023	Method Blank	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	MXX22041	
Project Name/#	516.01		**Method**	METHOD	
Matrix	Water (Surface, Eff., Ground)		**Date**	08/14/2009	

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	08/14/09
Batch MCV4272					
Method EP245.1					
Instrument PSA Millennium mercury AA					

SGS Ref.#	912158	Duplicate	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7361
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1093682001			**Date**	7/29/2009 8:30:00AM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689023, 1093689024

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	0.0020 J	0.0019	mg/L	5	(< 25)	07/29/2009

Batch WDA1693
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	912440	Duplicate	**Printed Date/Time**	09/09/2009	8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	516.01			**Method**	
Original	1093983001			**Date**	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689002, 1093689004, 1093689005

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Solids						
Total Solids	93.4	94.0	%	1	(< 15)	07/30/2009

Batch SPT7971
Method SM20 2540G
Instrument

SGS Ref.#	912538	Duplicate	**Printed Date/Time**		09/09/2009 8:18
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21982
Project Name/#	516.01			**Method**	SW3050B
Original	1093654001			**Date**	7/31/2009 11:40:00AM
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689005

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Metals by ICP/MS						
Chromium	17.3	13.8 *	mg/Kg	22	(< 20)	08/07/2009

Batch MMS6012
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	912156	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912157	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7361	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.01		**Date**	07/29/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689023, 1093689024

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.048	95	(75-125)			0.05 mg/L	07/29/2009
	LCSD	0.050	99		4	(< 25)	0.05 mg/L	07/29/2009

Batch	WDA1693
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	912459	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912460	Lab Control Sample Duplicate	**Prep** **Batch**	XXX21304	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689037, 1093689038

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polychlorinated Biphenyls								
Aroclor-1016	LCS	0.990	99	(60-140)			1 ug/L	08/03/2009
	LCSD	0.990	99		0	(< 25)	1 ug/L	08/03/2009
Aroclor-1260	LCS	1.04	104	(63-123)			1 ug/L	08/03/2009
	LCSD	1.01	101		3	(< 25)	1 ug/L	08/03/2009
Surrogates								
Decachlorobiphenyl <surr>	LCS		92	(50-121)				08/03/2009
	LCSD		91		1			08/03/2009

Batch	XGC6656
Method	SW8082A
Instrument	HP 5890 Series II ECD SV I F

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep** **Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689029, 1093689030

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
N-Nitrosodimethylamine	LCS	0.0721	72	(27-100)			0.1 mg/L	08/04/2009
	LCSD	0.0767	77		6	(< 20)	0.1 mg/L	08/04/2009
Aniline	LCS	0.0386	39	(21-119)			0.1 mg/L	08/04/2009
	LCSD	0.0454	45		16	(< 20)	0.1 mg/L	08/04/2009
Phenol	LCS	0.0732	73	(26-92)			0.1 mg/L	08/04/2009
	LCSD	0.0747	75		2	(< 20)	0.1 mg/L	08/04/2009
Bis(2-Chloroethyl)ether	LCS	0.0779	78	(37-100)			0.1 mg/L	08/04/2009
	LCSD	0.0783	78		1	(< 20)	0.1 mg/L	08/04/2009
2-Chlorophenol	LCS	0.0798	80	(37-97)			0.1 mg/L	08/04/2009
	LCSD	0.0817	82		2	(< 20)	0.1 mg/L	08/04/2009
1,3-Dichlorobenzene	LCS	0.0785	79	(32-98)			0.1 mg/L	08/04/2009
	LCSD	0.0791	79		1	(< 20)	0.1 mg/L	08/04/2009
1,4-Dichlorobenzene	LCS	0.0762	76	(32-97)			0.1 mg/L	08/04/2009
	LCSD	0.0781	78		2	(< 20)	0.1 mg/L	08/04/2009
Benzyl alcohol	LCS	0.0874	87	(38-110)			0.1 mg/L	08/04/2009
	LCSD	0.0880	88		1	(< 20)	0.1 mg/L	08/04/2009
1,2-Dichlorobenzene	LCS	0.0786	79	(35-99)			0.1 mg/L	08/04/2009
	LCSD	0.0794	79		1	(< 20)	0.1 mg/L	08/04/2009
2-Methylphenol (o-Cresol)	LCS	0.0805	81	(38-99)			0.1 mg/L	08/04/2009
	LCSD	0.0820	82		2	(< 20)	0.1 mg/L	08/04/2009
Bis(2chloro1methylethyl)Ether	LCS	0.0838	84	(36-103)			0.1 mg/L	08/04/2009
	LCSD	0.0833	83		1	(< 20)	0.1 mg/L	08/04/2009
3&4-Methylphenol (p&m-Cresol)	LCS	0.117	84	(38-105)			0.14 mg/L	08/04/2009
	LCSD	0.118	85		1	(< 20)	0.14 mg/L	08/04/2009
N-Nitroso-di-n-propylamine	LCS	0.0901	90	(42-108)			0.1 mg/L	08/04/2009
	LCSD	0.0911	91		1	(< 20)	0.1 mg/L	08/04/2009
Hexachloroethane	LCS	0.0756	76	(30-95)			0.1 mg/L	08/04/2009
	LCSD	0.0755	76		0	(< 20)	0.1 mg/L	08/04/2009

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Nitrobenzene	LCS	0.0843	84	(45-105)			0.1 mg/L	08/04/2009
	LCSD	0.0845	85		0	(< 20)	0.1 mg/L	08/04/2009
Isophorone	LCS	0.0884	88	(50-110)			0.1 mg/L	08/04/2009
	LCSD	0.0896	90		1	(< 20)	0.1 mg/L	08/04/2009
2-Nitrophenol	LCS	0.0935	94	(40-109)			0.1 mg/L	08/04/2009
	LCSD	0.0960	96		3	(< 20)	0.1 mg/L	08/04/2009
2,4-Dimethylphenol	LCS	0.0730	73	(32-86)			0.1 mg/L	08/04/2009
	LCSD	0.0743	74		2	(< 20)	0.1 mg/L	08/04/2009
Benzoic acid	LCS	0.0810	58	(20-101)			0.14 mg/L	08/04/2009
	LCSD	0.0880	63		8	(< 20)	0.14 mg/L	08/04/2009
Bis(2-Chloroethoxy)methane	LCS	0.0864	86	(46-105)			0.1 mg/L	08/04/2009
	LCSD	0.0867	87		0	(< 20)	0.1 mg/L	08/04/2009
1,2,4-Trichlorobenzene	LCS	0.0803	80	(37-104)			0.1 mg/L	08/04/2009
	LCSD	0.0798	80		1	(< 20)	0.1 mg/L	08/04/2009
Naphthalene	LCS	0.0848	85	(45-100)			0.1 mg/L	08/04/2009
	LCSD	0.0837	84		1	(< 20)	0.1 mg/L	08/04/2009
4-Chloroaniline	LCS	0.0603	60	(37-110)			0.1 mg/L	08/04/2009
	LCSD	0.0677	68		12	(< 20)	0.1 mg/L	08/04/2009
Hexachlorobutadiene	LCS	0.0912	91	(38-105)			0.1 mg/L	08/04/2009
	LCSD	0.0885	89		3	(< 20)	0.1 mg/L	08/04/2009
4-Chloro-3-methylphenol	LCS	0.0965	97	(50-110)			0.1 mg/L	08/04/2009
	LCSD	0.0971	97		1	(< 20)	0.1 mg/L	08/04/2009
2,4-Dichlorophenol	LCS	0.0868	87	(50-105)			0.1 mg/L	08/04/2009
	LCSD	0.0887	89		2	(< 20)	0.1 mg/L	08/04/2009
2-Methylnaphthalene	LCS	0.0955	96	(46-105)			0.1 mg/L	08/04/2009
	LCSD	0.0958	96		0	(< 20)	0.1 mg/L	08/04/2009
Hexachlorocyclopentadiene	LCS	0.0472	47	(10-58)			0.1 mg/L	08/04/2009

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
	LCSD	0.0501	50		6	(< 20)	0.1 mg/L	08/04/2009
2,4,6-Trichlorophenol	LCS	0.0980	98	(50-115)			0.1 mg/L	08/04/2009
	LCSD	0.0995	100		2	(< 20)	0.1 mg/L	08/04/2009
2,4,5-Trichlorophenol	LCS	0.101	101	(50-110)			0.1 mg/L	08/04/2009
	LCSD	0.100	100		1	(< 20)	0.1 mg/L	08/04/2009
2-Chloronaphthalene	LCS	0.0816	82	(50-105)			0.1 mg/L	08/04/2009
	LCSD	0.0836	84		2	(< 20)	0.1 mg/L	08/04/2009
2-Nitroaniline	LCS	0.106	106	(54-115)			0.1 mg/L	08/04/2009
	LCSD	0.107	107		1	(< 20)	0.1 mg/L	08/04/2009
Dimethylphthalate	LCS	0.0928	93	(36-125)			0.1 mg/L	08/04/2009
	LCSD	0.0933	93		1	(< 20)	0.1 mg/L	08/04/2009
Acenaphthylene	LCS	0.0956	96	(53-105)			0.1 mg/L	08/04/2009
	LCSD	0.0966	97		1	(< 20)	0.1 mg/L	08/04/2009
2,6-Dinitrotoluene	LCS	0.101	101	(55-115)			0.1 mg/L	08/04/2009
	LCSD	0.100	100		0	(< 20)	0.1 mg/L	08/04/2009
3-Nitroaniline	LCS	0.103	103	(54-125)			0.1 mg/L	08/04/2009
	LCSD	0.107	107		5	(< 20)	0.1 mg/L	08/04/2009
Acenaphthene	LCS	0.0961	96	(53-110)			0.1 mg/L	08/04/2009
	LCSD	0.0968	97		1	(< 20)	0.1 mg/L	08/04/2009
2,4-Dinitrophenol	LCS	0.232	129	(29-130)			0.18 mg/L	08/04/2009
	LCSD	0.232	129		0	(< 20)	0.18 mg/L	08/04/2009
4-Nitrophenol	LCS	0.115	82	(42-112)			0.14 mg/L	08/04/2009
	LCSD	0.114	81		1	(< 20)	0.14 mg/L	08/04/2009
Dibenzofuran	LCS	0.103	103	(55-105)			0.1 mg/L	08/04/2009
	LCSD	0.102	102		1	(< 20)	0.1 mg/L	08/04/2009
2,4-Dinitrotoluene	LCS	0.104	104	(55-115)			0.1 mg/L	08/04/2009
	LCSD	0.102	102		3	(< 20)	0.1 mg/L	08/04/2009

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Diethylphthalate	LCS	0.0997	100	(51-120)			0.1 mg/L	08/04/2009
	LCSD	0.0976	98		2	(< 20)	0.1 mg/L	08/04/2009
4-Chlorophenyl-phenylether	LCS	0.0938	94	(50-110)			0.1 mg/L	08/04/2009
	LCSD	0.0940	94		0	(< 20)	0.1 mg/L	08/04/2009
Fluorene	LCS	0.100	100	(56-110)			0.1 mg/L	08/04/2009
	LCSD	0.100	100		0	(< 20)	0.1 mg/L	08/04/2009
4-Nitroaniline	LCS	0.109	109	(52-120)			0.1 mg/L	08/04/2009
	LCSD	0.108	108		0	(< 20)	0.1 mg/L	08/04/2009
2-Methyl-4,6-dinitrophenol	LCS	0.235	131 *	(43-130)			0.18 mg/L	08/04/2009
	LCSD	0.226	126		4	(< 20)	0.18 mg/L	08/04/2009
N-Nitrosodiphenylamine	LCS	0.0983	98	(53-110)			0.1 mg/L	08/04/2009
	LCSD	0.0966	97		2	(< 20)	0.1 mg/L	08/04/2009
4-Bromophenyl-phenylether	LCS	0.0921	92	(52-110)			0.1 mg/L	08/04/2009
	LCSD	0.0918	92		0	(< 20)	0.1 mg/L	08/04/2009
Hexachlorobenzene	LCS	0.104	104	(54-110)			0.1 mg/L	08/04/2009
	LCSD	0.101	101		2	(< 20)	0.1 mg/L	08/04/2009
Pentachlorophenol	LCS	0.144	103	(51-115)			0.14 mg/L	08/04/2009
	LCSD	0.144	103		0	(< 20)	0.14 mg/L	08/04/2009
Phenanthrene	LCS	0.106	106	(58-115)			0.1 mg/L	08/04/2009
	LCSD	0.103	103		3	(< 20)	0.1 mg/L	08/04/2009
Anthracene	LCS	0.106	106	(59-110)			0.1 mg/L	08/04/2009
	LCSD	0.102	102		4	(< 20)	0.1 mg/L	08/04/2009
Di-n-butylphthalate	LCS	0.103	103	(55-115)			0.1 mg/L	08/04/2009
	LCSD	0.0998	100		3	(< 20)	0.1 mg/L	08/04/2009
Fluoranthene	LCS	0.108	108	(59-115)			0.1 mg/L	08/04/2009
	LCSD	0.106	106		2	(< 20)	0.1 mg/L	08/04/2009
Pyrene	LCS	0.104	104	(62-128)			0.1 mg/L	08/04/2009
	LCSD	0.101	101		3	(< 20)	0.1 mg/L	08/04/2009

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter		QC Results	Pct Recov		LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
Azobenzene	LCS	0.102	102		(52-124)			0.1 mg/L	08/04/2009
	LCSD	0.0991	99			3	(< 20)	0.1 mg/L	08/04/2009
Butylbenzylphthalate	LCS	0.106	106		(58-115)			0.1 mg/L	08/04/2009
	LCSD	0.104	104			2	(< 20)	0.1 mg/L	08/04/2009
3,3-Dichlorobenzidine	LCS	0.104	104		(53-110)			0.1 mg/L	08/04/2009
	LCSD	0.106	106			2	(< 20)	0.1 mg/L	08/04/2009
Benzo(a)Anthracene	LCS	0.106	106		(64-110)			0.1 mg/L	08/04/2009
	LCSD	0.104	104			3	(< 20)	0.1 mg/L	08/04/2009
Chrysene	LCS	0.0999	100		(63-110)			0.1 mg/L	08/04/2009
	LCSD	0.0984	98			2	(< 20)	0.1 mg/L	08/04/2009
bis(2-Ethylhexyl)phthalate	LCS	0.104	104		(59-125)			0.1 mg/L	08/04/2009
	LCSD	0.0999	100			4	(< 20)	0.1 mg/L	08/04/2009
di-n-Octylphthalate	LCS	0.102	102		(52-131)			0.1 mg/L	08/04/2009
	LCSD	0.100	100			2	(< 20)	0.1 mg/L	08/04/2009
Benzo[b]Fluoranthene	LCS	0.105	105		(57-120)			0.1 mg/L	08/04/2009
	LCSD	0.105	105			1	(< 20)	0.1 mg/L	08/04/2009
Benzo[k]fluoranthene	LCS	0.111	111		(58-124)			0.1 mg/L	08/04/2009
	LCSD	0.111	111			1	(< 20)	0.1 mg/L	08/04/2009
Benzo[a]pyrene	LCS	0.113	113	*	(58-110)			0.1 mg/L	08/04/2009
	LCSD	0.112	112	*		1	(< 20)	0.1 mg/L	08/04/2009
Indeno[1,2,3-c,d] pyrene	LCS	0.102	102		(51-125)			0.1 mg/L	08/04/2009
	LCSD	0.102	102			0	(< 20)	0.1 mg/L	08/04/2009
Dibenzo[a,h]anthracene	LCS	0.104	104		(53-125)			0.1 mg/L	08/04/2009
	LCSD	0.103	103			1	(< 20)	0.1 mg/L	08/04/2009
Benzo[g,h,i]perylene	LCS	0.0961	96		(48-123)			0.1 mg/L	08/04/2009
	LCSD	0.0943	94			2	(< 20)	0.1 mg/L	08/04/2009

Surrogates

SGS Ref.#	912496	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
	912497	Lab Control Sample Duplicate	**Prep** **Batch**	XXX21306	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3520C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS							
2-Fluorophenol <surr>	LCS	74	(21-88)				08/04/2009
	LCSD	78		6			08/04/2009
Phenol-d6 <surr>	LCS	80	(28-97)				08/04/2009
	LCSD	83		3			08/04/2009
Nitrobenzene-d5 <surr>	LCS	92	(41-110)				08/04/2009
	LCSD	95		2			08/04/2009
2-Fluorobiphenyl <surr>	LCS	97	(50-110)				08/04/2009
	LCSD	100		3			08/04/2009
2,4,6-Tribromophenol <surr>	LCS	116	(45-124)				08/04/2009
	LCSD	114		2			08/04/2009
Terphenyl-d14 <surr>	LCS	111	(52-135)				08/04/2009
	LCSD	109		2			08/04/2009

Batch	XMS5018
Method	EPA 625
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	912534	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	MXX21982	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3050B	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689005

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	49.6	99	(80-120)			50 mg/Kg	08/07/2009
Arsenic	LCS	51.1	102	(80-120)			50 mg/Kg	08/07/2009
Beryllium	LCS	5.14	103	(80-120)			5 mg/Kg	08/07/2009
Cadmium	LCS	5.48	110	(80-120)			5 mg/Kg	08/07/2009
Chromium	LCS	20.5	103	(80-120)			20 mg/Kg	08/07/2009
Copper	LCS	51.9	104	(80-120)			50 mg/Kg	08/07/2009
Lead	LCS	52.7	105	(80-120)			50 mg/Kg	08/07/2009
Molybdenum	LCS	20.0	100	(80-120)			20 mg/Kg	08/07/2009
Nickel	LCS	50.7	101	(80-120)			50 mg/Kg	08/07/2009
Selenium	LCS	50.6	101	(80-120)			50 mg/Kg	08/07/2009
Silver	LCS	5.37	107	(80-120)			5 mg/Kg	08/07/2009
Thallium	LCS	0.538	108	(80-120)			0.5 mg/Kg	08/07/2009
Zinc	LCS	51.3	103	(80-120)			50 mg/Kg	08/07/2009

Batch	MMS6012
Method	SW6020
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	912639	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	XXX21310	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	07/31/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Polychlorinated Biphenyls								
Aroclor-1016	LCS	207	93	(58-122)			222 ug/Kg	08/03/2009
Aroclor-1260	LCS	247	111	(61-130)			222 ug/Kg	08/03/2009
Surrogates								
Decachlorobiphenyl <surr>	LCS		108	(60-125)				08/03/2009

Batch	XGC6654
Method	SW8082A
Instrument	HP 6890 Series II ECD SV H F

SGS Ref.#	913256	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	MXX21997	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	981	98	(85-115)			1000 ug/L	08/06/2009
Arsenic	LCS	958	96	(85-115)			1000 ug/L	08/06/2009
Beryllium	LCS	111	111	(85-115)			100 ug/L	08/06/2009
Cadmium	LCS	100	100	(85-115)			100 ug/L	08/06/2009
Chromium	LCS	392	98	(85-115)			400 ug/L	08/06/2009
Copper	LCS	954	95	(85-115)			1000 ug/L	08/06/2009
Lead	LCS	890	89	(85-115)			1000 ug/L	08/06/2009
Molybdenum	LCS	373	93	(85-115)			400 ug/L	08/06/2009
Nickel	LCS	939	94	(85-115)			1000 ug/L	08/06/2009
Selenium	LCS	941	94	(85-115)			1000 ug/L	08/06/2009
Silver	LCS	94.5	95	(85-115)			100 ug/L	08/06/2009
Thallium	LCS	9.12	91	(85-115)			10 ug/L	08/06/2009
Zinc	LCS	1130	113	(85-115)			1000 ug/L	08/06/2009

Batch	MMS6017
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913329	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	XXX21347	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689002

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	913329	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep Batch	XXX21347	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Soil/Solid (dry weight)				

Parameter		QC Results	Pct Recov		LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
N-Nitrosodimethylamine	LCS	2.25	51		(45-90)			4.44 mg/Kg	08/06/2009
Aniline	LCS	2.08	47		(40-92)			4.44 mg/Kg	08/06/2009
Phenol	LCS	2.68	60		(56-97)			4.44 mg/Kg	08/06/2009
Bis(2-Chloroethyl)ether	LCS	2.26	51		(49-91)			4.44 mg/Kg	08/06/2009
2-Chlorophenol	LCS	2.53	57		(56-94)			4.44 mg/Kg	08/06/2009
1,3-Dichlorobenzene	LCS	2.28	51	*	(52-92)			4.44 mg/Kg	08/06/2009
1,4-Dichlorobenzene	LCS	2.24	50	*	(51-92)			4.44 mg/Kg	08/06/2009
Benzyl alcohol	LCS	2.62	59	*	(61-110)			4.44 mg/Kg	08/06/2009
1,2-Dichlorobenzene	LCS	2.33	52		(52-92)			4.44 mg/Kg	08/06/2009
2-Methylphenol (o-Cresol)	LCS	2.61	59	*	(61-101)			4.44 mg/Kg	08/06/2009
Bis(2chloro1methylethyl)Ether	LCS	2.32	52		(50-97)			4.44 mg/Kg	08/06/2009
3&4-Methylphenol (p&m-Cresol)	LCS	3.89	63	*	(65-105)			6.22 mg/Kg	08/06/2009
N-Nitroso-di-n-propylamine	LCS	2.68	60		(59-100)			4.44 mg/Kg	08/06/2009
Hexachloroethane	LCS	2.24	50	*	(51-89)			4.44 mg/Kg	08/06/2009
Nitrobenzene	LCS	2.49	56		(53-99)			4.44 mg/Kg	08/06/2009
Isophorone	LCS	2.92	66		(57-108)			4.44 mg/Kg	08/06/2009
2-Nitrophenol	LCS	2.86	64	*	(65-101)			4.44 mg/Kg	08/06/2009
2,4-Dimethylphenol	LCS	3.09	70		(63-105)			4.44 mg/Kg	08/06/2009
Benzoic acid	LCS	1.80	29		(25-76)			6.22 mg/Kg	08/06/2009
Bis(2-Chloroethoxy)methane	LCS	2.67	60		(57-104)			4.44 mg/Kg	08/06/2009
1,2,4-Trichlorobenzene	LCS	2.48	56		(54-101)			4.44 mg/Kg	08/06/2009

SGS Ref.#	913329	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep Batch	XXX21347	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Soil/Solid (dry weight)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Naphthalene	LCS	2.53	57	(51-105)			4.44 mg/Kg	08/06/2009
4-Chloroaniline	LCS	2.66	60	(58-102)			4.44 mg/Kg	08/06/2009
Hexachlorobutadiene	LCS	2.59	58	(57-107)			4.44 mg/Kg	08/06/2009
4-Chloro-3-methylphenol	LCS	3.86	87	(69-114)			4.44 mg/Kg	08/06/2009
2,4-Dichlorophenol	LCS	3.02	68	(64-107)			4.44 mg/Kg	08/06/2009
2-Methylnaphthalene	LCS	2.77	62	(61-105)			4.44 mg/Kg	08/06/2009
Hexachlorocyclopentadiene	LCS	2.13	48	(35-102)			4.44 mg/Kg	08/06/2009
2,4,6-Trichlorophenol	LCS	3.75	85	(67-110)			4.44 mg/Kg	08/06/2009
2,4,5-Trichlorophenol	LCS	3.40	77	(71-110)			4.44 mg/Kg	08/06/2009
2-Chloronaphthalene	LCS	2.66	60	(52-103)			4.44 mg/Kg	08/06/2009
2-Nitroaniline	LCS	4.02	90	(70-120)			4.44 mg/Kg	08/06/2009
Dimethylphthalate	LCS	4.02	90	(59-110)			4.44 mg/Kg	08/06/2009
Acenaphthylene	LCS	3.45	78	(56-105)			4.44 mg/Kg	08/06/2009
2,6-Dinitrotoluene	LCS	3.76	85	(67-110)			4.44 mg/Kg	08/06/2009
3-Nitroaniline	LCS	4.29	97	(66-110)			4.44 mg/Kg	08/06/2009
Acenaphthene	LCS	3.55	80	(57-110)			4.44 mg/Kg	08/06/2009
2,4-Dinitrophenol	LCS	4.69	59	(43-130)			8 mg/Kg	08/06/2009
4-Nitrophenol	LCS	5.70	92	(44-137)			6.22 mg/Kg	08/06/2009
Dibenzofuran	LCS	3.48	78	(60-105)			4.44 mg/Kg	08/06/2009
2,4-Dinitrotoluene	LCS	3.89	87	(64-115)			4.44 mg/Kg	08/06/2009

SGS Ref.#	913329	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	XXX21347	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Soil/Solid (dry weight)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Diethylphthalate	LCS	4.18	94	(50-115)			4.44 mg/Kg	08/06/2009
4-Chlorophenyl-phenylether	LCS	3.76	85	(53-110)			4.44 mg/Kg	08/06/2009
Fluorene	LCS	3.98	90	(64-110)			4.44 mg/Kg	08/06/2009
4-Nitroaniline	LCS	3.91	88	(63-115)			4.44 mg/Kg	08/06/2009
2-Methyl-4,6-dinitrophenol	LCS	7.42	93	(51-131)			8 mg/Kg	08/06/2009
N-Nitrosodiphenylamine	LCS	4.28	96	(61-114)			4.44 mg/Kg	08/06/2009
4-Bromophenyl-phenylether	LCS	3.67	83	(53-102)			4.44 mg/Kg	08/06/2009
Hexachlorobenzene	LCS	4.21	95	(63-120)			4.44 mg/Kg	08/06/2009
Pentachlorophenol	LCS	5.47	88	(56-117)			6.22 mg/Kg	08/06/2009
Phenanthrene	LCS	4.47	101	(63-110)			4.44 mg/Kg	08/06/2009
Anthracene	LCS	4.51	101	(65-105)			4.44 mg/Kg	08/06/2009
Di-n-butylphthalate	LCS	4.38	99	(56-110)			4.44 mg/Kg	08/06/2009
Fluoranthene	LCS	4.61	104	(64-115)			4.44 mg/Kg	08/06/2009
Pyrene	LCS	4.63	104	(70-123)			4.44 mg/Kg	08/06/2009
Azobenzene	LCS	4.00	90	(54-120)			4.44 mg/Kg	08/06/2009
Butylbenzylphthalate	LCS	4.22	95	(69-120)			4.44 mg/Kg	08/06/2009
3,3-Dichlorobenzidine	LCS	3.96	89	(49-128)			4.44 mg/Kg	08/06/2009
Benzo(a)Anthracene	LCS	4.70	106	(72-110)			4.44 mg/Kg	08/06/2009
Chrysene	LCS	4.66	105	(72-110)			4.44 mg/Kg	08/06/2009
bis(2-Ethylhexyl)phthalate	LCS	4.68	105	(62-120)			4.44 mg/Kg	08/06/2009
di-n-Octylphthalate	LCS	4.08	92	(61-123)			4.44 mg/Kg	08/06/2009

SGS Ref.#	913329	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	XXX21347	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW3550C	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Soil/Solid (dry weight)				

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS								
Benzo[b]Fluoranthene	LCS	3.95	89	(70-115)			4.44 mg/Kg	08/06/2009
Benzo[k]fluoranthene	LCS	4.89	110	(66-125)			4.44 mg/Kg	08/06/2009
Benzo[a]pyrene	LCS	4.84	109	(71-110)			4.44 mg/Kg	08/06/2009
Indeno[1,2,3-c,d] pyrene	LCS	4.76	107	(60-120)			4.44 mg/Kg	08/06/2009
Dibenzo[a,h]anthracene	LCS	4.74	107	(61-125)			4.44 mg/Kg	08/06/2009
Benzo[g,h,i]perylene	LCS	4.67	105	(52-125)			4.44 mg/Kg	08/06/2009
Surrogates								
2-Fluorophenol <surr>	LCS		51	(41-84)				08/06/2009
Phenol-d6 <surr>	LCS		58	(48-94)				08/06/2009
Nitrobenzene-d5 <surr>	LCS		57	(37-100)				08/06/2009
2-Fluorobiphenyl <surr>	LCS		67	(45-105)				08/06/2009
2,4,6-Tribromophenol <surr>	LCS		99	(47-125)				08/06/2009
Terphenyl-d14 <surr>	LCS		102	(50-120)				08/06/2009

Batch	XMS5023
Method	SW8270D
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	915819	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	POGX2278	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT_1664OG	
Project Name/#	516.01		**Date**	08/13/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689033, 1093689034

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Oil & Grease HEM	LCS	43.1	108	(78-114)			40 mg/L	08/13/2009

Batch	POG2458
Method	EPA 1664A
Instrument	

SGS Ref.#	916024	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	MXX22041	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	08/14/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	3.99	100	(85-115)			4 ug/L	08/14/2009

Batch	MCV4272
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	916028	Lab Control Sample	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	MXX22041	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	08/14/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	3.78	95	(85-115)			4 ug/L	08/14/2009

Batch	MCV4272
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	912159	Matrix Spike	**Printed Date/Time**	09/09/2009	8:18
			Prep **Batch**	WXX7361	
			Method	Cyanide Distillation Kone Lab	
			Date	07/29/2009	
Original	1093682001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689023, 1093689024

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	0.0020 J	.047	90	(75-125)			0.050	mg/L	07/29/2009

Batch WDA1693
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	912535	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
	912536	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21982
				Method	Soils/Solids Digest for Metals b
				Date	07/31/2009
Original	1093654001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689005

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS											
Arsenic		MS	5.32	56.8	103	(80-120)			50.3	mg/Kg	08/07/2009
		MSD		51.7	99		10	(< 20)	46.9	mg/Kg	08/07/2009
Cadmium		MS	0.237	5.77	110	(80-120)			5.03	mg/Kg	08/07/2009
		MSD		5.26	107		9	(< 20)	4.69	mg/Kg	08/07/2009
Chromium		MS	17.3	42.7	127*	(80-120)			20.1	mg/Kg	08/07/2009
		MSD		33.5	87		24 *	(< 20)	18.8	mg/Kg	08/07/2009
Lead		MS	8.34	54.4	92	(80-120)			50.3	mg/Kg	08/07/2009
		MSD		51.3	92		6	(< 20)	46.9	mg/Kg	08/07/2009
Selenium		MS	ND	51.7	103	(80-120)			50.3	mg/Kg	08/07/2009
		MSD		47.6	101		8	(< 20)	46.9	mg/Kg	08/07/2009
Silver		MS	0.156	5.42	105	(80-120)			5.03	mg/Kg	08/07/2009
		MSD		5.05	104		7	(< 20)	4.69	mg/Kg	08/07/2009

Batch MMS6012
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	912537	Bench Spike DIGESTED	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	MXX21982
				Method	Soils/Solids Digest for Metals b
				Date	07/31/2009
Original	1093654001				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689005

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Chromium	BND	17.3	148	105	(75-125)			124	mg/Kg	08/07/2009

Batch MMS6012
Method SW6020
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	912640	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
	912641	Matrix Spike Duplicate	**Prep**	**Batch**	XXX21310
				Method	Sonication Extraction Soil SW8
				Date	07/31/2009
Original	1093991005				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689004

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Polychlorinated Biphenyls											
Aroclor-1016		MS	ND	227	101	(58-122)			225	ug/Kg	08/03/2009
		MSD		228	101		1	(< 30)	226	ug/Kg	08/03/2009
Aroclor-1260		MS	ND	252	112	(61-130)			225	ug/Kg	08/03/2009
		MSD		265	117		5	(< 30)	226	ug/Kg	08/03/2009
Surrogates											
Decachlorobiphenyl <surr>		MS		259	115	(60-125)					08/03/2009
		MSD		256	113		1				08/03/2009

Batch	XGC6654
Method	SW8082A
Instrument	HP 6890 Series II ECD SV H F

SGS Ref.#	913257	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	MXX21997
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	ND	1040	104	(70-130)			1000	ug/L	08/06/2009
Arsenic	MS	ND	1020	102	(70-130)			1000	ug/L	08/06/2009
Beryllium	MS	ND	113	113	(70-130)			100	ug/L	08/06/2009
Cadmium	MS	ND	106	106	(70-130)			100	ug/L	08/06/2009
Chromium	MS	ND	412	103	(70-130)			400	ug/L	08/06/2009
Copper	MS	26.8	1050	102	(70-130)			1000	ug/L	08/06/2009
Lead	MS	0.917	913	91	(70-130)			1000	ug/L	08/06/2009
Molybdenum	MS	ND	385	96	(70-130)			400	ug/L	08/06/2009
Nickel	MS	2.77	990	99	(70-130)			1000	ug/L	08/06/2009
Selenium	MS	ND	994	99	(70-130)			1000	ug/L	08/06/2009
Silver	MS	ND	38.3	38*	(70-130)			100	ug/L	08/06/2009
Thallium	MS	ND	9.26	93	(70-130)			10.0	ug/L	08/06/2009
Zinc	MS	58.4	1270	122	(70-130)			1000	ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913258	Bench Spike DIGESTED	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	MXX21997
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Silver	BND	ND	30.5	98	(70-130)			31.3	ug/L	08/06/2009

Batch	MMS6017
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	914071	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
	914072	Matrix Spike Duplicate	**Prep**	**Batch**	XXX21347
				Method	Sonication Extraction Soil SW8
				Date	08/04/2009
Original	1093800041				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093689002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date

Semivolatile Organic GC/MS

SGS Ref.#	914071	Matrix Spike	**Printed Date/Time**	09/09/2009 8:18
	914072	Matrix Spike Duplicate	**Prep** **Batch**	XXX21347
			Method	Sonication Extraction Soil SW8
			Date	08/04/2009
Original	1093800041			
Matrix	Soil/Solid (dry weight)			

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
Naphthalene	MS	ND	4.20	81	(51-105)			5.21 mg/Kg	08/06/2009
	MSD		3.43	66		20	(< 30)	5.21 mg/Kg	08/07/2009
Acenaphthylene	MS	ND	4.90	94	(56-105)			5.21 mg/Kg	08/06/2009
	MSD		4.28	82		13	(< 30)	5.21 mg/Kg	08/07/2009
Acenaphthene	MS	ND	4.92	95	(57-110)			5.21 mg/Kg	08/06/2009
	MSD		4.34	83		12	(< 30)	5.21 mg/Kg	08/07/2009
Fluorene	MS	ND	5.10	98	(64-110)			5.21 mg/Kg	08/06/2009
	MSD		4.66	90		9	(< 30)	5.21 mg/Kg	08/07/2009
Phenanthrene	MS	ND	5.36	103	(63-110)			5.21 mg/Kg	08/06/2009
	MSD		4.89	94		9	(< 30)	5.21 mg/Kg	08/07/2009
Anthracene	MS	ND	5.42	104	(65-105)			5.21 mg/Kg	08/06/2009
	MSD		4.84	93		11	(< 30)	5.21 mg/Kg	08/07/2009
Fluoranthene	MS	ND	5.25	101	(64-115)			5.21 mg/Kg	08/06/2009
	MSD		4.82	92		9	(< 30)	5.21 mg/Kg	08/07/2009
Pyrene	MS	ND	5.57	107	(70-123)			5.21 mg/Kg	08/06/2009
	MSD		4.95	95		12	(< 30)	5.21 mg/Kg	08/07/2009
Benzo(a)Anthracene	MS	ND	5.48	105	(72-110)			5.21 mg/Kg	08/06/2009
	MSD		4.96	95		10	(< 30)	5.21 mg/Kg	08/07/2009
Chrysene	MS	ND	5.34	103	(72-110)			5.21 mg/Kg	08/06/2009
	MSD		4.78	92		11	(< 30)	5.21 mg/Kg	08/07/2009
Benzo[b]Fluoranthene	MS	ND	4.96	95	(70-115)			5.21 mg/Kg	08/06/2009
	MSD		4.58	88		8	(< 30)	5.21 mg/Kg	08/07/2009
Benzo[k]fluoranthene	MS	ND	6.06	116	(66-125)			5.21 mg/Kg	08/06/2009
	MSD		5.93	114		2	(< 30)	5.21 mg/Kg	08/07/2009
Benzo[a]pyrene	MS	ND	5.94	114*	(71-110)			5.21 mg/Kg	08/06/2009
	MSD		5.42	104		9	(< 30)	5.21 mg/Kg	08/07/2009
Indeno[1,2,3-c,d] pyrene	MS	ND	5.22	100	(60-120)			5.21 mg/Kg	08/06/2009
	MSD		4.75	91		10	(< 30)	5.21 mg/Kg	08/07/2009
Dibenzo[a,h]anthracene	MS	ND	5.47	105	(61-125)			5.21 mg/Kg	08/06/2009
	MSD		4.99	96		9	(< 30)	5.21 mg/Kg	08/07/2009
Benzo[g,h,i]perylene	MS	ND	4.59	88	(52-125)			5.21 mg/Kg	08/06/2009
	MSD		4.17	80		10	(< 30)	5.21 mg/Kg	08/07/2009
Surrogates									
2-Fluorophenol <surr>	MS		7.24	70	(41-84)				08/06/2009
	MSD		5.60	54		26			08/07/2009
Phenol-d6 <surr>	MS		8.69	83	(48-94)				08/06/2009
	MSD		6.69	64		26			08/07/2009
Nitrobenzene-d5 <surr>	MS		4.08	79	(37-100)				08/06/2009
	MSD		3.41	65		18			08/07/2009
2-Fluorobiphenyl <surr>	MS		4.57	88	(45-105)				08/06/2009

SGS Ref.#	914071	Matrix Spike	**Printed Date/Time**	09/09/2009	8:18
	914072	Matrix Spike Duplicate	**Prep** **Batch**	XXX21347	
			Method	Sonication Extraction Soil SW8	
			Date	08/04/2009	
Original	1093800041				
Matrix	Soil/Solid (dry weight)				

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Semivolatile Organic GC/MS									
		MSD	3.83	74		18			08/07/2009
2,4,6-Tribromophenol <surr>		MS	10.8	104	(47-125)				08/06/2009
		MSD	9.55	92		12			08/07/2009
Terphenyl-d14 <surr>		MS	5.42	104	(50-120)				08/06/2009
		MSD	4.82	92		12			08/07/2009

Batch	XMS5023
Method	SW8270D
Instrument	HP 5890 Series II MS4 SVPA

SGS Ref.#	915820	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	POGX2278
				Method	Extraction for EPA 1664 O&G
				Date	08/13/2009
Original	1094909001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689033, 1093689034

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Oil & Grease HEM	MS	4.33	40.9	87	(78-114)			42.1	mg/L	08/13/2009

Batch POG2458
Method EPA 1664A
Instrument

SGS Ref.#	916025	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	MXX22041
				Method	Digestion Mercury (W)
				Date	08/14/2009
Original	1093836001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8	100	(85-115)			8.00	ug/L	08/14/2009

Batch MCV4272
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	916029	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
			Prep	**Batch**	MXX22041
				Method	Digestion Mercury (W)
				Date	08/14/2009
Original	1093836003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8.88	111	(85-115)			8.00	ug/L	08/14/2009

Batch MCV4272
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	916030	Matrix Spike	**Printed Date/Time**		09/09/2009 8:18
	916031	Matrix Spike Duplicate	**Prep**	**Batch**	MXX22041
				Method	Digestion Mercury (W)
				Date	08/14/2009
Original	1093792013				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093689025, 1093689026, 1093689027, 1093689028

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	8.06	101	(85-115)			8.00	ug/L	08/14/2009
		MSD		7.79	97		3	(< 15)	8.00	ug/L	08/14/2009

Batch	MCV4272
Method	EP245.1
Instrument	PSA Millennium mercury AA

1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 14, 2009 Analytical Report for Service Request No: K0906859

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

RE: KLI 516.01

Dear Forest:

Enclosed are the results of the sample submitted to our laboratory on July 31, 2009. For your reference, these analyses have been assigned our service request number K0906859.

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 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

08/14/09

Pradeep Divvela
Project Chemist

PD/lg

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
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 compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
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 has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

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)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	SGS Environmental	**Service Request No.:**	K0906859
Project:	KLI 516.01	**Date Received:**	07/31/09
Sample Matrix:	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. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), and Laboratory Control Sample (LCS).

Sample Receipt

One sludge samples was received for analysis at Columbia Analytical Services on 07/31/09. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Cyanide by Method 9012A;
The Relative Percent Difference (RPD) for the replicate analysis of cyanide in Batch QC was outside the normal CAS control limits. The variability in the results was attributed to the heterogeneous character of the sample. The sample contained relatively large amounts of miscellaneous vegetation/etc., which complicated the homogenization process. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

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

08/14/09

Approved by_____**Date**_____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: SGS Environmental Services, Inc.
Project: KLI 516.01
Sample Matrix: Sludge, solid

Service Request: K0906859

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MOA09MET010	K0906859-001	07/28/2009	07/31/2009	08/03/2009	28.3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906859
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Sludge, solid	**Date Received:**	07/31/2009
		Date Analyzed:	08/03/2009

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
MOA09MET010	K0906859-001	28.3	28.7	28.5	1	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : SGS Environmental Services, Inc.
Project Name : KLI 516.01
Project Number : NA
Sample Matrix : SLUDGE

Service Request : K0906859
Date Collected : 07/28/09
Date Received : 07/31/09

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
MOA09MET010	K0906859-001	0.9	1	8/4/2009	08/07/09	1.2	
Method Blank	K0906859-MB	0.9	1	8/4/2009	08/07/09	ND	

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0906859
Project Name :	KLI 516.01	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SLUDGE	**Date Prepared :**	08/04/09
		Date Analyzed :	08/07/09

Duplicate Summary
Inorganic Parameters

Sample Name : BatchQC
Lab Code : K0905740-001DUP
Units : mg/Kg
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	1.4	5.5	2.8	4.2	64	*

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0906859
Project Name :	KLI 516.01	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SLUDGE	**Date Prepared :**	08/04/09
		Date Analyzed :	08/07/09

Matrix Spike Summary
Inorganic Parameters

Sample Name :	BatchQC	Units :	mg/Kg
Lab Code :	K0905740-001MS	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	1.3	12.4	5.5	15.9	84	75-125	

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client :	SGS Environmental Services, Inc.	**Service Request :**	K0906859
Project Name :	KLI 516.01	**Date Collected :**	NA
Project Number :	NA	**Date Received :**	NA
Sample Matrix :	SLUDGE	**Date Prepared :**	08/04/09
		Date Analyzed :	08/07/09

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name :	Lab Control Sample	Units :	mg/Kg
Lab Code :	K0906859-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	26.6	26.5	100	85-115	

Report By: MKANALY

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : SGS Environmental Services, Inc.
Project : KLI 516.01

Service Request : K0906859
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	8/7/2009	100	104	104
CCV2 Result	8/7/2009	100	105	105

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : SGS Environmental Services, Inc.
Project : KLI 516.01

Service Request : K0906859
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	8/7/2009	10	ND
CCB2 Result	8/7/2009	10	ND

K0906859

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

(1)

CLIENT: SLS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI 516.01 SITE/PWSID#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1093689

SGS Reference #: CAS

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used —	Analysis Required (3) CN								REMARKS/ ~~LOC ID~~
	MOAØ9METØ1Ø	7/28/09	0555	SLUDGE	1	G		L								1093689005

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Forest Taylor	7/30/09	1025	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: Ayell CAS 7/30/09 1030

(4)

DOD Project? YES NO

Cooler ID _____

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions:

Samples Received Cold? YES NO

Cooler TB

Temperature °C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: SGS Service Request *K09* 06859

Received: 7/31/09 Opened: 7/31/09 By: AJ

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1F, 1B
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 1ZA8261W0150521751 NA Y N
5. **Temperature of cooler(s) upon receipt (°C):** 9.5
   Temperature Blank (°C): 9.4
   Thermometer ID: 2165
6. If applicable, list Chain of Custody Numbers:
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 in the table below* NA Y N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA Y N
13. Were the pH-preserved bottles tested* 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. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

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

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).

Additional Notes, Discrepancies, & Resolutions: NO label or id on bottle. placed by SGS #

1317 South 13th Avenue Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 28, 2009

Analytical Report for Service Request No: K0906818

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

RE: KLI 516.01

Dear Forest:

Enclosed are the results of the samples submitted to our laboratory on July 30, 2009. For your reference, these analyses have been assigned our service request number K0906818.

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 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

08/28/09

Pradeep Divvela
Project Chemist

PD/lg

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

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.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
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 compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
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 has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

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.
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 concentration that is less than the MRL but greater than or equal to the MDL.
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 (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

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)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	SGS Environmental	**Service Request No.:**	K0906718
Project:	KLI 516.01	**Date Received:**	07/30/09
Sample Matrix:	Soil/Water		

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 Laboratory Control Sample (LCS/DLCS).

Sample Receipt

One soil and four water samples were received for analysis at Columbia Analytical Services on 07/30/09. 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.

Organophosphorus Pesticides by EPA Method 614 – Water

Second Source Exceptions:
The analysis of Organophosphorus Pesticides by EPA 8141 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are 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 Demeton-S in ICAL 8777. The ICV results were reported from the acceptable column. The data quality was not affected. No further corrective action was necessary.

Surrogate Exceptions:
The upper control criterion was exceeded for Tributyl Phosphate in sample MOA09PST005. No target analytes were detected in the sample. 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.

Lab Control Sample Exceptions:
The upper control criterion was exceeded for Ethyl Parathion and Azinphos Methyl (Guthion) in Laboratory Control Sample (LCS)/ Duplicate Laboratory Control Sample KWG0906742-1/2. The analytes in question were 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.

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

Organophosphorus Pesticides by EPA Method 8141 – Soil

Second Source Exceptions:
The analysis of Organophosphorus Pesticides by EPA 8141 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are 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 Demeton-S in ICAL 8777. The ICV results were reported from the acceptable column. The data quality was not affected. No further corrective action was necessary.

Approved by_____ **Date** 08/28/09

Lab Control Sample Exceptions:
The upper control criterion was exceeded for Malathion and/or Ethyl Parathion in Laboratory Control Sample (LCS)/ Duplicate Laboratory Control Sample KWG0906978-3/5. The analytes in question were 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.

Surrogate Exceptions:
The control criteria for Tributyl Phosphate and Triphenyl Phosphate in sample MOA09PES007 were not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Elevated Detection Limits:
The detection limit was elevated for analytes in sample MOA09PES007. 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 result(s) was/were flagged to indicate the matrix interference.

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

Organochlorine Pesticides by EPA Method 8081A

Calibration Verification Exceptions:
The primary evaluation criterion was exceeded for Mirex in Continuing Calibration Verification (CCV) 0813F029. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the following analyte in the replicate Laboratory Control Sample (LCS) analyses (KWG0906733-1 and KWG0906733-2) was outside control criteria: Toxaphene; 4,4'-DDD in (KWG0906752-1 and KWG0906752-2). Reanalysis of the associated field samples could not be performed because insufficient sample remained for additional testing. Note that the individual recoveries of these analytes were within control limits. The data is flagged to indicate the problem.

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.

Sample Confirmation Notes:
The confirmation comparison criteria of 40% difference for Dieldrin was exceeded in sample MOA09PES005; beta-BHC in sample MOA09PES006. The higher of the two values was reported when no evidence of a matrix interference was observed.

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

Approved by_____ **Date** 07/28/09

Client: SGS Environmental Services, Inc.
Project: KLI 516.01
Sample Matrix: Soil

Service Request: K0906818

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MOA09PES007	K0906818-001	07/28/2009	07/30/2009	07/31/2009	30.0	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Soil	**Date Received:**	07/30/2009
		Date Analyzed:	07/31/2009

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
MOA09PES007	K0906818-001	30.0	29.0	29.5	3	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Water	**Date Received:**	07/30/2009

Organophosphorus Pesticides

Sample Name:	MOA09PST004	**Units:**	ug/L
Lab Code:	K0906818-002	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	08/04/09	08/28/09	KWG0906742	
Malathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	
Ethyl Parathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*
Azinphos-methyl (Guthion)	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	91	23-139	08/28/09	Acceptable
Tributyl Phosphate	148	20-153	08/28/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Water	**Date Received:**	07/30/2009

Organophosphorus Pesticides

Sample Name:	MOA09PST005	**Units:**	ug/L
Lab Code:	K0906818-003	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	08/04/09	08/28/09	KWG0906742	
Malathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	
Ethyl Parathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*
Azinphos-methyl (Guthion)	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	119	23-139	08/28/09	Acceptable
Tributyl Phosphate	185	20-153	08/28/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0906742-5	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	614M		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Demeton-O,S	ND	U	0.40	1	08/04/09	08/28/09	KWG0906742	
Malathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	
Ethyl Parathion	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*
Azinphos-methyl (Guthion)	ND	U	0.20	1	08/04/09	08/28/09	KWG0906742	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Triphenyl Phosphate	113	23-139	08/28/09	Acceptable
Tributyl Phosphate	107	20-153	08/28/09	Acceptable

Comments:

Client: SGS Environmental Services, Inc.
Project: KLI 516.01
Sample Matrix: Water

Service Request: K0906818

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535
Analysis Method: 614M

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	
MOA09PST004	K0906818-002	91	148	
MOA09PST005	K0906818-003	119	185	*
Method Blank	KWG0906742-5	113	107	
Lab Control Sample	KWG0906742-1	127	120	
Duplicate Lab Control Sample	KWG0906742-2	117	113	

Surrogate Recovery Control Limits (%)

Sur1 =	Triphenyl Phosphate	23-139
Sur2 =	Tributyl Phosphate	20-153

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: KLI 516.01
Sample Matrix: Water

Service Request: K0906818
Date Extracted: 08/04/2009
Date Analyzed: 08/28/2009

Lab Control Spike/Duplicate Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535
Analysis Method: 614M

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0906742

	Lab Control Sample KWG0906742-1 Lab Control Spike			Duplicate Lab Control Sample KWG0906742-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	1.44	2.00	72	1.12	2.00	56	10-201	25	30
Malathion	2.56	2.00	128	2.22	2.00	111	58-130	14	30
Ethyl Parathion	2.76	2.00	138 *	2.41	2.00	120 *	57-117	14	30
Azinphos-methyl (Guthion)	3.10	2.00	155 *	2.69	2.00	135 *	54-128	14	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.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Water	**Date Received:**	07/30/2009

Organochlorine Pesticides

Sample Name:	MOA09PES005	**Units:**	ug/L
Lab Code:	K0906818-004	**Basis:**	NA
Extraction Method:	EPA 3535	**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	08/04/09	08/14/09	KWG0906752	
beta-BHC	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
gamma-BHC (Lindane)	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
delta-BHC	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Aldrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor Epoxide	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan I	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Dieldrin	**0.014**	P	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDE	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan II	ND	Ui	0.030	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDD	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin Aldehyde	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan Sulfate	ND	Ui	0.013	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDT	ND	Ui	0.047	1	08/04/09	08/14/09	KWG0906752	
Toxaphene	ND	Ui	0.51	1	08/04/09	08/14/09	KWG0906752	
Chlordane	ND	U	0.20	1	08/04/09	08/14/09	KWG0906752	
Mirex	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	34	10-121	08/14/09	Acceptable
Decachlorobiphenyl	50	17-150	08/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Water	**Date Received:**	07/30/2009

Organochlorine Pesticides

Sample Name:	MOA09PES006	**Units:**	ug/L
Lab Code:	K0906818-005	**Basis:**	NA
Extraction Method:	EPA 3535	**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	08/04/09	08/14/09	KWG0906752	
beta-BHC	**0.014**	P	0.010	1	08/04/09	08/14/09	KWG0906752	
gamma-BHC (Lindane)	ND	Ui	0.038	1	08/04/09	08/14/09	KWG0906752	
delta-BHC	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Aldrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor Epoxide	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan I	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Dieldrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDE	**0.010**		0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan II	ND	Ui	0.032	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDD	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin Aldehyde	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan Sulfate	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDT	ND	Ui	0.049	1	08/04/09	08/14/09	KWG0906752	
Toxaphene	ND	U	0.50	1	08/04/09	08/14/09	KWG0906752	
Chlordane	ND	U	0.20	1	08/04/09	08/14/09	KWG0906752	
Mirex	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	56	10-121	08/14/09	Acceptable
Decachlorobiphenyl	63	17-150	08/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0906752-7	**Basis:**	NA
Extraction Method:	EPA 3535	**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	08/04/09	08/14/09	KWG0906752	
beta-BHC	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
gamma-BHC (Lindane)	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
delta-BHC	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Aldrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Heptachlor Epoxide	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan I	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Dieldrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDE	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan II	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDD	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endrin Aldehyde	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Endosulfan Sulfate	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
4,4'-DDT	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	
Toxaphene	ND	U	0.50	1	08/04/09	08/14/09	KWG0906752	
Chlordane	ND	U	0.20	1	08/04/09	08/14/09	KWG0906752	
Mirex	ND	U	0.010	1	08/04/09	08/14/09	KWG0906752	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	56	10-121	08/14/09	Acceptable
Decachlorobiphenyl	70	17-150	08/14/09	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Soil	**Date Received:**	07/30/2009

Organochlorine Pesticides

Sample Name:	MOA09PES007	**Units:**	ug/Kg
Lab Code:	K0906818-001	**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	8.4	1	08/04/09	08/14/09	KWG0906733	
beta-BHC	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
gamma-BHC (Lindane)	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
delta-BHC	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Heptachlor	ND	Ui	11	1	08/04/09	08/14/09	KWG0906733	
Aldrin	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Heptachlor Epoxide	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
gamma-Chlordane†	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Endosulfan I	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
alpha-Chlordane	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Dieldrin	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
4,4'-DDE	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Endrin	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Endosulfan II	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
4,4'-DDD	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
Endosulfan Sulfate	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	
4,4'-DDT	ND	Ui	250	1	08/04/09	08/14/09	KWG0906733	
Toxaphene	ND	Ui	540	1	08/04/09	08/14/09	KWG0906733	
Chlordane	ND	Ui	440	1	08/04/09	08/14/09	KWG0906733	
Mirex	ND	U	8.4	1	08/04/09	08/14/09	KWG0906733	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	66	25-125	08/14/09	Acceptable
Decachlorobiphenyl	81	22-142	08/14/09	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:**	K0906818
Project:	KLI 516.01	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organochlorine Pesticides

Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KWG0906733-7	**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	2.5	1	08/04/09	08/13/09	KWG0906733	
beta-BHC	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
gamma-BHC (Lindane)	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
delta-BHC	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Heptachlor	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Aldrin	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Heptachlor Epoxide	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
gamma-Chlordane†	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Endosulfan I	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
alpha-Chlordane	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Dieldrin	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
4,4'-DDE	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Endrin	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Endosulfan II	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
4,4'-DDD	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Endosulfan Sulfate	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
4,4'-DDT	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	
Toxaphene	ND	U	130	1	08/04/09	08/13/09	KWG0906733	
Chlordane	ND	U	50	1	08/04/09	08/13/09	KWG0906733	
Mirex	ND	U	2.5	1	08/04/09	08/13/09	KWG0906733	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	66	25-125	08/13/09	Acceptable
Decachlorobiphenyl	76	22-142	08/13/09	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: KLI 516.01
Sample Matrix: Water

Service Request: K0906818

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES005	K0906818-004	34	50
MOA09PES006	K0906818-005	56	63
Method Blank	KWG0906752-7	56	70
Lab Control Sample	KWG0906752-1	64	76
Duplicate Lab Control Sample	KWG0906752-2	61	71

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	10-121
Sur2 =	Decachlorobiphenyl	17-150

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: KLI 516.01
Sample Matrix: Soil

Service Request: K0906818

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3541
Analysis Method: 8081A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES007	K0906818-001	66	81
Method Blank	KWG0906733-7	66	76
Lab Control Sample	KWG0906733-1	58	69
Duplicate Lab Control Sample	KWG0906733-2	61	75

Surrogate Recovery Control Limits (%)

Sur1 =	Tetrachloro-m-xylene	25-125
Sur2 =	Decachlorobiphenyl	22-142

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: KLI 516.01
Sample Matrix: Water

Service Request: K0906818
Date Extracted: 08/04/2009
Date Analyzed: 08/14/2009

Lab Control Spike/Duplicate Lab Control Spike Summary
Organochlorine Pesticides

Extraction Method: EPA 3535
Analysis Method: 8081A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0906752

	Lab Control Sample KWG0906752-1 Lab Control Spike			Duplicate Lab Control Sample KWG0906752-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
alpha-BHC	0.192	0.200	96	0.182	0.200	91	43-127	6	30
beta-BHC	0.190	0.200	95	0.176	0.200	88	41-129	8	30
gamma-BHC (Lindane)	0.190	0.200	95	0.178	0.200	89	42-128	7	30
delta-BHC	0.197	0.200	99	0.183	0.200	91	47-141	8	30
Heptachlor	0.166	0.200	83	0.157	0.200	78	34-126	6	30
Aldrin	0.160	0.200	80	0.151	0.200	75	10-125	6	30
Heptachlor Epoxide	0.173	0.200	86	0.161	0.200	81	45-124	7	30
Endosulfan I	0.181	0.200	90	0.171	0.200	86	30-115	6	30
Dieldrin	0.184	0.200	92	0.173	0.200	86	50-120	6	30
4,4'-DDE	0.185	0.200	92	0.181	0.200	91	36-137	2	30
Endrin	0.156	0.200	78	0.135	0.200	67	53-132	15	30
Endosulfan II	0.183	0.200	91	0.173	0.200	86	32-123	6	30
4,4'-DDD	0.186	0.200	93	0.180	0.200	90	38-140	3	30
Endrin Aldehyde	0.189	0.200	94	0.174	0.200	87	30-114	8	30
Endosulfan Sulfate	0.185	0.200	92	0.172	0.200	86	46-120	7	30
4,4'-DDT	0.190	0.200	95	0.181	0.200	91	45-146	5	30
Toxaphene	1.69	2.00	85	1.67	2.00	84	37-142	1	30
Chlordane	1.89	2.00	94	1.79	2.00	90	34-156	5	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:**	K0906818
Project:	KLI 516.01	**Date Extracted:**	08/04/2009
Sample Matrix:	Soil	**Date Analyzed:**	08/13/2009 - 08/14/2009

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:	KWG0906733

	Lab Control Sample KWG0906733-1 Lab Control Spike			Duplicate Lab Control Sample KWG0906733-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
alpha-BHC	79.6	100	80	86.0	100	86	45-150	8	40
beta-BHC	76.9	100	77	85.1	100	85	47-149	10	40
gamma-BHC (Lindane)	80.3	100	80	87.5	100	88	48-146	9	40
delta-BHC	84.4	100	84	93.3	100	93	59-162	10	40
Heptachlor	76.2	100	76	81.8	100	82	47-142	7	40
Aldrin	73.6	100	74	79.6	100	80	43-141	8	40
Heptachlor Epoxide	71.0	100	71	79.1	100	79	48-140	11	40
gamma-Chlordane	78.1	100	78	86.4	100	86	42-145	10	40
Endosulfan I	66.8	100	67	74.3	100	74	36-124	11	40
alpha-Chlordane	78.5	100	78	86.9	100	87	42-145	10	40
Dieldrin	81.8	100	82	91.1	100	91	50-142	11	40
4,4'-DDE	85.3	100	85	94.6	100	95	51-149	10	40
Endrin	84.5	100	84	95.3	100	95	54-155	12	40
Endosulfan II	74.9	100	75	83.6	100	84	42-130	11	40
4,4'-DDD	83.4	100	83	91.6	100	92	51-152	9	40
Endosulfan Sulfate	83.5	100	83	93.9	100	94	48-143	12	40
4,4'-DDT	87.4	100	87	98.0	100	98	59-151	11	40
Toxaphene	880	1000	88	530	1000	53	37-155	50 *	40
Chlordane	924	1000	92	954	1000	95	61-142	3	40
Mirex	84.1	100	84	76.7	100	77	46-128	9	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.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	07/28/2009
Sample Matrix:	Soil	**Date Received:**	07/30/2009

Organophosphorus Pesticides

Sample Name:	MOA09PES007	**Units:**	mg/Kg
Lab Code:	K0906818-001	**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	17	10	08/10/09	08/28/09	KWG0906978	
Methyl Parathion	ND	U	8.3	10	08/10/09	08/28/09	KWG0906978	
Malathion	ND	U	8.3	10	08/10/09	08/28/09	KWG0906978	*
Ethyl Parathion	ND	U	8.3	10	08/10/09	08/28/09	KWG0906978	*
Azinphos-methyl (Guthion)	ND	U	8.3	10	08/10/09	08/28/09	KWG0906978	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	176	32-172	08/28/09	Outside Control Limits
Triphenyl Phosphate	260	38-174	08/28/09	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	SGS Environmental Services, Inc.	**Service Request:**	K0906818
Project:	KLI 516.01	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Organophosphorus Pesticides

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG0906978-4	**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	0.10	1	08/10/09	08/28/09	KWG0906978	
Methyl Parathion	ND	U	0.050	1	08/10/09	08/28/09	KWG0906978	
Malathion	ND	U	0.050	1	08/10/09	08/28/09	KWG0906978	*
Ethyl Parathion	ND	U	0.050	1	08/10/09	08/28/09	KWG0906978	*
Azinphos-methyl (Guthion)	ND	U	0.050	1	08/10/09	08/28/09	KWG0906978	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	131	32-172	08/28/09	Acceptable
Triphenyl Phosphate	137	38-174	08/28/09	Acceptable

Comments:

Client: SGS Environmental Services, Inc.
Project: KLI 516.01
Sample Matrix: Soil

Service Request: K0906818

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3540C
Analysis Method: 8141A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2
MOA09PES007	K0906818-001	176 D #	260 D #
Method Blank	KWG0906978-4	131	137
Lab Control Sample	KWG0906978-3	126	131
Duplicate Lab Control Sample	KWG0906978-5	127	134

Surrogate Recovery Control Limits (%)

Sur1 =	Tributyl Phosphate	32-172
Sur2 =	Triphenyl Phosphate	38-174

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:**	K0906818
Project:	KLI 516.01	**Date Extracted:**	08/10/2009
Sample Matrix:	Soil	**Date Analyzed:**	08/28/2009

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:	KWG0906978

	Lab Control Sample KWG0906978-3 Lab Control Spike			Duplicate Lab Control Sample KWG0906978-5 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Demeton-O,S	0.231	0.267	87	0.247	0.267	93	10-120	7	40
Methyl Parathion	0.330	0.267	124	0.334	0.267	125	53-136	1	40
Malathion	0.324	0.267	121	0.331	0.267	124 *	54-122	2	40
Ethyl Parathion	0.340	0.267	127 *	0.342	0.267	128 *	48-125	1	40
Azinphos-methyl (Guthion)	0.360	0.267	135	0.369	0.267	138	50-161	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.

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

W0906818

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI 516.01 SITE/PWSID# :

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1093689

SGS Reference #: CAS

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	EPA 608 + MIREX (3)	EPA 614 *	EPA 8141A *							REMARKS/ ~~LOC ID~~
Preservatives Used							Ascorbic Acid	—	—							
	MOA09PES007	7/28/09	0555	SLUDGE	1	G	✓		✓							1093689004
	MOA09PST004	7/28/09	0910	H_2O	2	G		✓								1093689035
	MOA09PST005	7/28/09	0900	|	|	|		✓								1093689036
	MOA09PES005	7/28/09	0910	|	|	|	✓									1093689037
	MOA09PES006	7/28/09	0900	H_2O	2	G	✓									1093689038

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
Forest Taylor	7/29/09	1045	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By: 7/30/09 1030

(4)

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions: * 614 & 8141 COMPOUNDS: DEMETON, GUTHION, MALATHION, & PARATHION ONLY.

Samples Received Cold? YES NO

Cooler TB

Temperature °C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: SGS Service Request *K09* 06818

Received: 7/30/09 Opened: 7/30/09 By: AJ

1. Samples were received via? *US Mail* *Fed Ex* *UPS* *DHL* *GH* *GS* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1F, 1B
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: 1ZA8619W0144965171 1 NA Y N
5. **Temperature of cooler(s) upon receipt (°C):** 0.4
   Temperature Blank (°C): 1.8
   Thermometer ID: 261
6. If applicable, list Chain of Custody Numbers:
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 in the table below* NA Y N
12. **Were appropriate bottles/containers and volumes received for the tests indicated?** NA Y N
13. Were the pH-preserved bottles tested* 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. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

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

**Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).*

Additional Notes, Discrepancies, & Resolutions:

Did not Rec unpreserved amber bottles for MOA09PST005 or MOA09PES006.
All ambers Rec'd for 2 samples have Ascorbic Acid

SGS

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

Report Number: G552-616

Client Project: KLI 516.01

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 21, 2009

Project Manager Date
Barbara Hager

Environmental Division 5500 Business Dr., Wilmington, NC 28405 t (910) 350-1903 f (910) 350-1557 www.us.sgs.com

Member of the SGS Group

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).

DC250.081908.1

Method 8280

MOA09DXN006

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	126.00				

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	39.9	79.8	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	18.0	72.0	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.79	

Client Information

Project Name: KLI 516.01

Sample ID: MOA09DXN006

Laboratory Information

Project ID: G552-616

Sample ID: G552-616-1B

Collection Date/Time: 28-Jul-09 05:55

Receipt Date: 30-Jul-09 10:00

Extraction Date: 13-Aug-09

Analysis Date: 18-Aug-09 14:49

Sample Information

Matrix: Sludge

Weight / Volume: 10.45 Grams

Solids / Lipids: 76.2 %

Original pH : NA

Batch ID: WG17238

Filename: 0818507

Retchk: 0818501

Begin ConCal: 0818502

End ConCal: 0818515

Initial Cal: m8280-5061509

Analyzed by: DS

Date: 8-21-09

Reviewed by: [illegible]

Date: 8/21/09

Method 8280

MOA09DXN004

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	1.02				

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	41.0	82.0	26:46	0.77	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	22.5	90.0	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.81	

Client Information

Project Name: KLI 516.01

Sample ID: MOA09DXN004

Laboratory Information

Project ID: G552-616

Sample ID: G552-616-2C

Collection Date/Time: 28-Jul-09 09:10

Receipt Date: 30-Jul-09 10:00

Extraction Date: 16-Aug-09

Analysis Date: 18-Aug-09 18:58

Sample Information

Matrix: Water

Weight / Volume: 979 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG17245

Filename: 0818513

Retchk: 0818501

Begin ConCal: 0818502

End ConCal: 0818515

Initial Cal: m8280-5061509

Analyzed by: DS

Date: 8-21-09

Reviewed by: [illegible]

Date: 8/21/09

Method 8280

MOA09DXN005

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	1.02				

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	31.8	63.6	26:47	0.80	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.8	87.2	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.79	

Client Information

Project Name: KLI 516.01

Sample ID: MOA09DXN005

Laboratory Information

Project ID: G552-616

Sample ID: G552-616-3C

Collection Date/Time: 28-Jul-09 09:00

Receipt Date: 30-Jul-09 10:00

Extraction Date: 16-Aug-09

Analysis Date: 18-Aug-09 19:40

Sample Information

Matrix: Water

Weight / Volume: 976 mL

Solids / Lipids: NA %

Original pH : 7

Batch ID: WG17245

Filename: 0818514

Retchk: 0818501

Begin ConCal: 0818502

End ConCal: 0818515

Initial Cal: m8280-5061509

Analyzed by: DS

Date: 8-21-09

Reviewed by: [illegible]

Date: 8/21/09

Method 8280LMB

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	100.00				

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	41.8	83.6	26:46	0.80	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	20.3	81.2	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:19	0.80	

Sample Information

Report Basis:	Dry Weight	
Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100.0	%
Original pH :	NA	
Batch ID:	WG17238	

Laboratory Information

Sample ID:	LMB17238		Filename:	0818506
			Retchk:	0818501
		10:00	Begin ConCal:	0818502
Extraction Date:	13-Aug-09		End ConCal:	0818515
Analysis Date:	18-Aug-09	14:08	Initial Cal:	m8280-5061509

Analyzed by: OS
Date: 8-21-09

Reviewed by: [illegible]
Date: 8/21/09

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	1000.0	1010	101	70.0	130	

QC Information

OPR Project No:	OPR17238
Extraction Date:	13-Aug-09
Analysis Date:	19-Aug-09
Method:	8280

File Information

OPR Filename :	0818504
Retchk:	0818501
Begin ConCal:	0818502
End ConCal:	0818515
Initial Cal:	m8280-5061509

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	45.2	90.4	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.1	84.4	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:19	0.79	

QC Information

OPR Project No:	OPR17238
Extraction Date:	13-Aug-09
Analysis Date:	19-Aug-09
Method:	8280

File Information

OPR Filename :	0818504
Retchk:	0818501
Begin ConCal:	0818502
End ConCal:	0818515
Initial Cal:	m8280-5061509

Sample Information

Matrix: Soil

Analyzed by: OS
Date: 8-21-09

Reviewed by: [illegible]
Date: 8/21/09

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	1020	102		70.0	130	101		0.985		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No: OPRD17238
Extraction Date: 13-Aug-09
Analysis Date: 18-Aug-09
Method: 8280

Sample Information

Matrix: Soil

File Information

OPRD Filename : 0818505
Retchk: 0818501
Begin ConCal: 0818502
End ConCal: 0818515
Initial Cal: m8280-5061509

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	46.9	93.8	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.9	87.6	26:46	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:19	0.79	

QC Information

OPRD Project No: OPRD17238
Extraction Date: 13-Aug-09
Analysis Date: 18-Aug-09
Method: 8280

File Information

OPRD Filename : 0818505
Retchk: 0818501
Begin ConCal: 0818502
End ConCal: 0818515
Initial Cal: m8280-5061509

Sample Information

Matrix: Soil

Analyzed by: DS
Date: 8-21-09

Reviewed by: CD
Date: 8/21/09

Method 8280LMB

Lab

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	45.3	90.6	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	20.3	81.2	26:46		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:19	0.80	

Sample Information

Matrix:	Water	
Weight / Volume:	1000	mL
Solids / Lipids:	NA	%
Original pH :	5	
Batch ID:	WG17245	

Laboratory Information

Sample ID:	LMB17245		Filename:	0818512
			Retchk:	0818501
		8:00	Begin ConCal:	0818502
Extraction Date:	16-Aug-09		End ConCal:	0818515
Analysis Date:	18-Aug-09	18:17	Initial Cal:	m8280-5061509

Analyzed by: DS
Date: 8-21-09

Reviewed by: [illegible]
Date: 8/21/09

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	11.3	113	70.0	130	

QC Information		**File Information**	
OPR Project No:	OPR17245	OPR Filename :	0818510
Extraction Date:	16-Aug-09	Retchk:	0818501
Analysis Date:	18-Aug-09	Begin ConCal:	0818502
Method:	8280	End ConCal:	0818515
		Initial Cal:	m8280-5061509
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	44.8	89.6	26:46	0.78	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.9	87.6	26:47		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.80	

QC Information

OPR Project No:	OPR17245
Extraction Date:	16-Aug-09
Analysis Date:	18-Aug-09
Method:	8280

File Information

OPR Filename :	0818510
Retchk:	0818501
Begin ConCal:	0818502
End ConCal:	0818515
Initial Cal:	m8280-5061509

Sample Information

Matrix: Aqueous

Analyzed by: OS
Date: 8-21-09

Reviewed by: [illegible]
Date: 8/21/09

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	9.99	99.9		70.0	130	113		12.3		

= Outside range limits
* = Ion Ratio Out

QC Information

OPRD Project No: OPRD17245
Extraction Date: 16-Aug-09
Analysis Date: 18-Aug-09
Method: 8280

File Information

OPRD Filename : 0818511
Retchk: 0818501
Begin ConCal: 0818502
End ConCal: 0818515
Initial Cal: m8280-5061509

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	44.0	88.0	26:46	0.79	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	25.0	21.1	84.4	26:47	-	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	50.0			26:20	0.79	

QC Information

OPRD Project No: OPRD17245
Extraction Date: 16-Aug-09
Analysis Date: 18-Aug-09
Method: 8280

File Information

OPRD Filename : 0818511
Retchk: 0818501
Begin ConCal: 0818502
End ConCal: 0818515
Initial Cal: m8280-5061509

Sample Information

Matrix: Aqueous

Analyzed by: DS
Date: 8-21-09

Reviewed by: [illegible]
Date: 8/31/09

SGS

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI 516.01 SITE/PWSID#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1093689

SGS Reference #: SGS-NC G552-616

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	Preservatives Used	Analysis Required (3) ~~EC~~ 23,7,8-TCDD 8280A								REMARKS/ ~~LOC ID~~
	MOA09DXN006	7/28/09	0555	SLUDGE SOIL	1	G	✓									1093689003
	MOA09DXN004	7/28/09	0910	H_2O	2	G	✓									1093689031
	MOA09DXN005	7/28/09	0900	H_2O	2	G	✓									1093689032

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
[signature]	7/29/09	1040	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 7/30/09	Time 1000	Received For Laboratory By: [signature]

(4)

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions:

Samples Received Cold? YES NO

Cooler TB

Temperature°C: 4.8°C.

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

❑ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
❑ 550 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

SGS North America, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project: KLI 516.01
P.O. Number: 1093689

Lot #: D9G310221

Forrest Taylor

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

TestAmerica Laboratories, Inc.

FOR: Betsy Sara
Project Manager

August 14, 2009

Table Of Contents

Standard Deliverables

Report Contents	Total Number of Pages
Standard Deliverables *The **Cover Letter** and the **Report Cover** page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.*	

- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Lot Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **Chain-of-Custody**

Case Narrative

Enclosed is the report for six samples received at TestAmerica Denver on July 31, 2009. The results included in this report have been reviewed for compliance with TestAmerica's Laboratory Quality Manual. The results relate only to the samples in this report and meet all requirements of NELAC and any exceptions are noted below.

This report may include reporting limits (RLs) less than TestAmerica Denver's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. 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 concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quality Control Summary for Lot D9G310221

Sample Receiving

The cooler temperature upon receipt at the Denver laboratory was 4.8°C.

The sample ID's on the chain of custody did not match those listed on the bottle labels. These ID's did match with the corresponding ID's listed in the remarks section of the chain of custody. These samples have been logged per the sample ID's listed on the chain of custody.

Sample TRIP BLANK arrived with a cracked lid.

Samples MOA09BOP038 and TRIP BLANK are soils and have been analyzed by Method 8260B.

All other sample containers were received in acceptable physical condition.

Holding Times

All holding times were met.

Method Blanks

Methylene Chloride was detected in the Method 8260B Blank at a concentration below reporting limit but above the method detection limit. 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 LCS recovery was below control limits for 2-Hexanone Method 8260B. Because this compound is a not a target compound for the associated samples and the LCS was in control for all target compounds, no corrective action was taken.

All other 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 a sample from another client exhibited RPD data outside control limits for Bromomethane and Chloroethane Method 624. Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank sample were within control limits, these anomalies are considered to be due to matrix interference and no corrective action was taken.

The Matrix Spike and Matrix Spike Duplicate performed on a sample from another client exhibited MS and/or MSD recoveries outside control limits for multiple compounds and surrogate 4-Bromofluorobenzene by Method 8260B. 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 Duplicates were within established control limits.

Organics

The Method 624 surrogate recoveries of 1,2-Dichloroethane-d4 and 4-Bromofluorobenzene were above control limits for sample MOA09VOP036. Because the data are considered to be biased high and none of the target analytes were detected at or above the reporting limits, no further corrective action was performed.

The Method 8260B surrogate recoveries of 4-Bromofluorobenzene and Toluene-d8 were below control limits for sample MOA09VOP038. All other quality control samples were within control limits. Surrogate recoveries below control limits indicate a potential for low bias in reported results and reporting limits associated with these surrogates.

The Method 8260B surrogate recovery of 4-Bromofluorobenzene was above control limits for sample TRIP BLANK. The client added methanol spiked with 2.5ug/mL of 4-Bromofluorobenzene in the field. TestAmerica also added a surrogate standard that includes 2.0ug/mL of 4-Bromofluorobenzene during analysis which may account for the high recovery of this surrogate. Because the data are considered to be biased high and all Method 8260B target analytes in the sample were non-detect, corrective action was deemed unnecessary.

Sample MOA09VOP038 absorbed all methanol that had been added in the field. A sub-sample was extracted by the laboratory's medium level extraction procedure for Method 8260B analysis.

EXECUTIVE SUMMARY - Detection Highlights

D9G310221

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA09VOP038 07/28/09 05:55 001				
Acetone	7000	** 1000	ug/kg	SW846 8260B
Tetrachloroethene	35 J	** 250	ug/kg	SW846 8260B
Toluene	350	** 250	ug/kg	SW846 8260B
Xylenes (total)	86 J	** 250	ug/kg	SW846 8260B
MOA09VOP036 07/27/09 14:30 002				
Methylene chloride	2.6 J	5.0	ug/L	CFR136A 624
MOA09VOP037 07/27/09 10:15 004				
Acetone	40	20	ug/L	CFR136A 624
Methylene chloride	2.5 J	5.0	ug/L	CFR136A 624
EFF COMP 07/28/09 06:05 005				
Acetone	100	20	ug/L	CFR136A 624
Chloroform	2.0 J	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	0.68 J	5.0	ug/L	CFR136A 624
Methylene chloride	4.2 J	5.0	ug/L	CFR136A 624
Toluene	5.5	5.0	ug/L	CFR136A 624
Xylenes (total)	1.7 J	10	ug/L	CFR136A 624
INF COMP 07/28/09 06:00 006				
Acetone	160	20	ug/L	CFR136A 624
Chloroform	3.2 J	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	0.61 J	5.0	ug/L	CFR136A 624
Methylene chloride	6.8	5.0	ug/L	CFR136A 624
Toluene	6.6	5.0	ug/L	CFR136A 624

METHODS SUMMARY

D9G310221

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Purgeables	CFR136A 624	CFR136A 624
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9G310221

ANALYTICAL METHOD	ANALYST	ANALYST ID
CFR136A 624	Mike Dobransky	008777
SW846 8260B	Huaqing Zhou	005417

References:

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

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9G310221

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LHDAV	001	MOA09VOP038	07/28/09	05:55
LHDAW	002	MOA09VOP036	07/27/09	14:30
LHDAX	003	TRIP BLANK	07/28/09	05:55
LHDA3	004	MOA09VOP037	07/27/09	10:15
LHDA4	005	EFF COMP	07/28/09	06:05
LHDA5	006	INF COMP	07/28/09	06:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SGS North America, Inc.

Client Sample ID: MOA09VOP036

GC/MS Volatiles

Lot-Sample #...: D9G310221-002 **Work Order #...:** LHDAW1AA **Matrix.....:** WATER
Date Sampled...: 07/27/09 14:30 **Date Received..:** 07/31/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 21:52
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/L	3.4
Acrolein	ND	100	ug/L	15
Acrylonitrile	ND	100	ug/L	17
Benzene	ND	5.0	ug/L	1.8
Bromodichloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.8
Chlorobenzene	ND	5.0	ug/L	2.3
Dibromochloromethane	ND	5.0	ug/L	2.2
Chloroethane	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9
Chloroform	ND	5.0	ug/L	1.1
Chloromethane	ND	10	ug/L	0.89
1,2-Dichlorobenzene	ND	5.0	ug/L	1.3
1,3-Dichlorobenzene	ND	5.0	ug/L	1.6
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
Dichlorodifluoromethane	ND	10	ug/L	2.3
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.3
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.7
1,1-Dichloroethene	ND	5.0	ug/L	2.4
1,2-Dichloropropane	ND	5.0	ug/L	1.9
cis-1,3-Dichloropropene	ND	10	ug/L	2.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.0
1,3-Dichloropropene (total)	ND	5.0	ug/L	2.0
Ethylbenzene	ND	5.0	ug/L	2.2
Methylene chloride	**2.6 J**	**5.0**	**ug/L**	**2.0**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.2
Tetrachloroethene	ND	5.0	ug/L	2.7
Toluene	ND	5.0	ug/L	2.2
1,1,1-Trichloroethane	ND	5.0	ug/L	1.1
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
Trichloroethene	ND	5.0	ug/L	0.95
Trichlorofluoromethane	ND	15	ug/L	3.9
Vinyl chloride	ND	10	ug/L	1.3

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SGS North America, Inc.

Client Sample ID: MOA09VOP036

GC/MS Volatiles

Lot-Sample #...: D9G310221-002 **Work Order #...:** LHDAW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	132 *	(73 - 122)
4-Bromofluorobenzene	133 *	(79 - 119)
Toluene-d8	110	(80 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

SGS North America, Inc.

Client Sample ID: MOA09VOP037

GC/MS Volatiles

Lot-Sample #...: D9G310221-004 **Work Order #...:** LHDA31AA **Matrix.....:** WATER
Date Sampled...: 07/27/09 10:15 **Date Received..:** 07/31/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 23:19
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**40**	**20**	**ug/L**	**3.4**
Acrolein	ND	100	ug/L	15
Acrylonitrile	ND	100	ug/L	17
Benzene	ND	5.0	ug/L	1.8
Bromodichloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.8
Chlorobenzene	ND	5.0	ug/L	2.3
Dibromochloromethane	ND	5.0	ug/L	2.2
Chloroethane	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9
Chloroform	ND	5.0	ug/L	1.1
Chloromethane	ND	10	ug/L	0.89
1,2-Dichlorobenzene	ND	5.0	ug/L	1.3
1,3-Dichlorobenzene	ND	5.0	ug/L	1.6
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
Dichlorodifluoromethane	ND	10	ug/L	2.3
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.3
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.7
1,1-Dichloroethene	ND	5.0	ug/L	2.4
1,2-Dichloropropane	ND	5.0	ug/L	1.9
cis-1,3-Dichloropropene	ND	10	ug/L	2.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.0
1,3-Dichloropropene (total)	ND	5.0	ug/L	2.0
Ethylbenzene	ND	5.0	ug/L	2.2
Methylene chloride	**2.5 J**	**5.0**	**ug/L**	**2.0**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.2
Tetrachloroethene	ND	5.0	ug/L	2.7
Toluene	ND	5.0	ug/L	2.2
1,1,1-Trichloroethane	ND	5.0	ug/L	1.1
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
Trichloroethene	ND	5.0	ug/L	0.95
Trichlorofluoromethane	ND	15	ug/L	3.9
Vinyl chloride	ND	10	ug/L	1.3

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SGS North America, Inc.

Client Sample ID: MOA09VOP037

GC/MS Volatiles

Lot-Sample #...: D9G310221-004 **Work Order #...:** LHDA31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	115	(73 - 122)
4-Bromofluorobenzene	111	(79 - 119)
Toluene-d8	98	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

SGS North America, Inc.

Client Sample ID: EFF COMP

GC/MS Volatiles

Lot-Sample #...: D9G310221-005 **Work Order #...:** LHDA41AA **Matrix.....:** WATER
Date Sampled...: 07/28/09 06:05 **Date Received..:** 07/31/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 23:41
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**100**	**20**	**ug/L**	**3.4**
Acrolein	ND	100	ug/L	15
Acrylonitrile	ND	100	ug/L	17
Benzene	ND	5.0	ug/L	1.8
Bromodichloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.8
Chlorobenzene	ND	5.0	ug/L	2.3
Dibromochloromethane	ND	5.0	ug/L	2.2
Chloroethane	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9
Chloroform	**2.0 J**	**5.0**	**ug/L**	**1.1**
Chloromethane	ND	10	ug/L	0.89
1,2-Dichlorobenzene	ND	5.0	ug/L	1.3
1,3-Dichlorobenzene	ND	5.0	ug/L	1.6
1,4-Dichlorobenzene	**0.68 J**	**5.0**	**ug/L**	**0.56**
Dichlorodifluoromethane	ND	10	ug/L	2.3
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.3
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.7
1,1-Dichloroethene	ND	5.0	ug/L	2.4
1,2-Dichloropropane	ND	5.0	ug/L	1.9
cis-1,3-Dichloropropene	ND	10	ug/L	2.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.0
1,3-Dichloropropene (total)	ND	5.0	ug/L	2.0
Ethylbenzene	ND	5.0	ug/L	2.2
Methylene chloride	**4.2 J**	**5.0**	**ug/L**	**2.0**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.2
Tetrachloroethene	ND	5.0	ug/L	2.7
Toluene	**5.5**	**5.0**	**ug/L**	**2.2**
1,1,1-Trichloroethane	ND	5.0	ug/L	1.1
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
Trichloroethene	ND	5.0	ug/L	0.95
Trichlorofluoromethane	ND	15	ug/L	3.9
Vinyl chloride	ND	10	ug/L	1.3

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SGS North America, Inc.

Client Sample ID: EFF COMP

GC/MS Volatiles

Lot-Sample #...: D9G310221-005 **Work Order #...:** LHDA41AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**1.7 J**	**10**	**ug/L**	**1.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	118	(73 - 122)
4-Bromofluorobenzene	109	(79 - 119)
Toluene-d8	97	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

SGS North America, Inc.

Client Sample ID: INF COMP

GC/MS Volatiles

Lot-Sample #...: D9G310221-006 **Work Order #...:** LHDA51AA **Matrix.....:** WATER
Date Sampled...: 07/28/09 06:00 **Date Received..:** 07/31/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/04/09
Prep Batch #...: 9216081 **Analysis Time..:** 00:03
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**160**	**20**	**ug/L**	**3.4**
Acrolein	ND	100	ug/L	15
Acrylonitrile	ND	100	ug/L	17
Benzene	ND	5.0	ug/L	1.8
Bromodichloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	1.5
Carbon tetrachloride	ND	5.0	ug/L	1.8
Chlorobenzene	ND	5.0	ug/L	2.3
Dibromochloromethane	ND	5.0	ug/L	2.2
Chloroethane	ND	10	ug/L	2.0
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9
Chloroform	**3.2 J**	**5.0**	**ug/L**	**1.1**
Chloromethane	ND	10	ug/L	0.89
1,2-Dichlorobenzene	ND	5.0	ug/L	1.3
1,3-Dichlorobenzene	ND	5.0	ug/L	1.6
1,4-Dichlorobenzene	**0.61 J**	**5.0**	**ug/L**	**0.56**
Dichlorodifluoromethane	ND	10	ug/L	2.3
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	2.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.3
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.7
1,1-Dichloroethene	ND	5.0	ug/L	2.4
1,2-Dichloropropane	ND	5.0	ug/L	1.9
cis-1,3-Dichloropropene	ND	10	ug/L	2.5
trans-1,3-Dichloropropene	ND	5.0	ug/L	2.0
1,3-Dichloropropene (total)	ND	5.0	ug/L	2.0
Ethylbenzene	ND	5.0	ug/L	2.2
Methylene chloride	**6.8**	**5.0**	**ug/L**	**2.0**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.2
Tetrachloroethene	ND	5.0	ug/L	2.7
Toluene	**6.6**	**5.0**	**ug/L**	**2.2**
1,1,1-Trichloroethane	ND	5.0	ug/L	1.1
1,1,2-Trichloroethane	ND	5.0	ug/L	1.2
Trichloroethene	ND	5.0	ug/L	0.95
Trichlorofluoromethane	ND	15	ug/L	3.9
Vinyl chloride	ND	10	ug/L	1.3

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SGS North America, Inc.

Client Sample ID: INF COMP

GC/MS Volatiles

Lot-Sample #...: D9G310221-006 **Work Order #...:** LHDA51AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	117	(73 - 122)
4-Bromofluorobenzene	109	(79 - 119)
Toluene-d8	98	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

SGS North America, Inc.

Client Sample ID: MOA09VOP038

GC/MS Volatiles

Lot-Sample #...: D9G310221-001 **Work Order #...:** LHDAV1AA **Matrix.....:** SOLID
Date Sampled...: 07/28/09 05:55 **Date Received..:** 07/31/09
Prep Date.....: 08/06/09 **Analysis Date..:** 08/11/09
Prep Batch #...: 9223514 **Analysis Time..:** 13:11
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**7000**	**** 1000**	**ug/kg**	**** 400**
Acrolein	ND	** 5000	ug/kg	** 460
Acrylonitrile	ND	** 5000	ug/kg	** 260
Benzene	ND	** 250	ug/kg	** 45
Bromodichloromethane	ND	** 250	ug/kg	** 40
Bromoform	ND	** 250	ug/kg	** 29
Bromomethane	ND	** 500	ug/kg	** 44
Carbon tetrachloride	ND	** 250	ug/kg	** 17
Chlorobenzene	ND	** 250	ug/kg	** 30
Dibromochloromethane	ND	** 250	ug/kg	** 33
Chloroethane	ND	** 500	ug/kg	** 44
2-Chloroethyl vinyl ether	ND	** 2500	ug/kg	** 110
Chloroform	ND	** 500	ug/kg	** 46
Chloromethane	ND	** 500	ug/kg	** 50
1,2-Dichlorobenzene	ND	** 250	ug/kg	** 94
1,3-Dichlorobenzene	ND	** 250	ug/kg	** 41
1,4-Dichlorobenzene	ND	** 250	ug/kg	** 25
Dichlorodifluoromethane	ND	** 500	ug/kg	** 22
1,1-Dichloroethane	ND	** 250	ug/kg	** 50
1,2-Dichloroethane	ND	** 250	ug/kg	** 25
cis-1,2-Dichloroethene	ND	** 120	ug/kg	** 22
trans-1,2-Dichloroethene	ND	** 120	ug/kg	** 45
1,1-Dichloroethene	ND	** 250	ug/kg	** 50
1,2-Dichloropropane	ND	** 250	ug/kg	** 46
cis-1,3-Dichloropropene	ND	** 250	ug/kg	** 27
trans-1,3-Dichloropropene	ND	** 250	ug/kg	** 41
1,3-Dichloropropene (total)	ND	** 250	ug/kg	** 27
Ethylbenzene	ND	** 250	ug/kg	** 34
Methylene chloride	ND	** 250	ug/kg	** 69
1,1,2,2-Tetrachloroethane	ND	** 250	ug/kg	** 29
Tetrachloroethene	**35 J**	**** 250**	**ug/kg**	**** 27**
Toluene	**350**	**** 250**	**ug/kg**	**** 39**
1,1,1-Trichloroethane	ND	** 250	ug/kg	** 20
1,1,2-Trichloroethane	ND	** 250	ug/kg	** 27
Trichloroethene	ND	** 250	ug/kg	** 23
Trichlorofluoromethane	ND	** 500	ug/kg	** 50
Vinyl chloride	ND	** 250	ug/kg	** 27

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SGS North America, Inc.

Client Sample ID: MOA09VOP038

GC/MS Volatiles

Lot-Sample #...: D9G310221-001 **Work Order #...:** LHDAV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**86 J**	**** 250**	**ug/kg**	**** 35**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	63	(60 - 133)
1,2-Dichloroethane-d4	66	(50 - 139)
4-Bromofluorobenzene	76 *	(80 - 133)
Toluene-d8	56 *	(68 - 143)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ND: The analyte was analyzed for, but not detected.

J Estimated result. Result is less than RL.

SGS North America, Inc.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D9G310221-003 **Work Order #...:** LHDAX1AA **Matrix.....:** SOLID
Date Sampled...: 07/28/09 05:55 **Date Received..:** 07/31/09
Prep Date.....: 08/06/09 **Analysis Date..:** 08/11/09
Prep Batch #...: 9223514 **Analysis Time..:** 12:46
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromomethane	ND	** 500	ug/kg	** 44
Carbon tetrachloride	ND	** 250	ug/kg	** 17
Chlorobenzene	ND	** 250	ug/kg	** 30
Dibromochloromethane	ND	** 250	ug/kg	** 33
Chloroethane	ND	** 500	ug/kg	** 44
2-Chloroethyl vinyl ether	ND	** 2500	ug/kg	** 110
Chloroform	ND	** 500	ug/kg	** 46
Chloromethane	ND	** 500	ug/kg	** 50
1,2-Dichlorobenzene	ND	** 250	ug/kg	** 94
1,3-Dichlorobenzene	ND	** 250	ug/kg	** 41
1,4-Dichlorobenzene	ND	** 250	ug/kg	** 25
Dichlorodifluoromethane	ND	** 500	ug/kg	** 22
1,1-Dichloroethane	ND	** 250	ug/kg	** 50
1,2-Dichloroethane	ND	** 250	ug/kg	** 25
cis-1,2-Dichloroethene	ND	** 120	ug/kg	** 22
trans-1,2-Dichloroethene	ND	** 120	ug/kg	** 45
1,1-Dichloroethene	ND	** 250	ug/kg	** 50
1,2-Dichloropropane	ND	** 250	ug/kg	** 46
cis-1,3-Dichloropropene	ND	** 250	ug/kg	** 27
trans-1,3-Dichloropropene	ND	** 250	ug/kg	** 41
1,3-Dichloropropene (total)	ND	** 250	ug/kg	** 27
Ethylbenzene	ND	** 250	ug/kg	** 34
Methylene chloride	ND	** 250	ug/kg	** 69
1,1,2,2-Tetrachloroethane	ND	** 250	ug/kg	** 29
Tetrachloroethene	ND	** 250	ug/kg	** 27
Toluene	ND	** 250	ug/kg	** 39
1,1,1-Trichloroethane	ND	** 250	ug/kg	** 20
1,1,2-Trichloroethane	ND	** 250	ug/kg	** 27
Trichloroethene	ND	** 250	ug/kg	** 23
Trichlorofluoromethane	ND	** 500	ug/kg	** 50
Vinyl chloride	ND	** 250	ug/kg	** 27
Xylenes (total)	ND	** 250	ug/kg	** 35
Acetone	ND	** 1000	ug/kg	** 400
Acrolein	ND	** 5000	ug/kg	** 460
Acrylonitrile	ND	** 5000	ug/kg	** 260
Benzene	ND	** 250	ug/kg	** 45
Bromodichloromethane	ND	** 250	ug/kg	** 40

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SGS North America, Inc.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D9G310221-003 **Work Order #...:** LHDAX1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	** 250	ug/kg	** 29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(60 - 133)
1,2-Dichloroethane-d4	91	(50 - 139)
4-Bromofluorobenzene	221 *	(80 - 133)
Toluene-d8	79	(68 - 143)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

ND: The analyte was analyzed for, but not detected.

QC DATA ASSOCIATION SUMMARY

D9G310221

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 8260B		9223514	9224241
002	WATER	CFR136A 624		9216081	9216058
003	SOLID	SW846 8260B		9223514	9224241
004	WATER	CFR136A 624		9216081	9216058
005	WATER	CFR136A 624		9216081	9216058
006	WATER	CFR136A 624		9216081	9216058

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AA **Matrix.....:** WATER
MB Lot-Sample #: D9H040000-081

Prep Date.....: 08/03/09 **Analysis Time..:** 14:36
Analysis Date..: 08/03/09 **Prep Batch #...:** 9216081
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methylene chloride	ND	5.0	ug/L	CFR136A 624
Acrolein	ND	100	ug/L	CFR136A 624
Acrylonitrile	ND	100	ug/L	CFR136A 624
Benzene	ND	5.0	ug/L	CFR136A 624
Bromodichloromethane	ND	5.0	ug/L	CFR136A 624
Bromoform	ND	5.0	ug/L	CFR136A 624
Bromomethane	ND	10	ug/L	CFR136A 624
Carbon tetrachloride	ND	5.0	ug/L	CFR136A 624
Chlorobenzene	ND	5.0	ug/L	CFR136A 624
Dibromochloromethane	ND	5.0	ug/L	CFR136A 624
Chloroethane	ND	10	ug/L	CFR136A 624
2-Chloroethyl vinyl ether	ND	5.0	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
Chloromethane	ND	10	ug/L	CFR136A 624
1,2-Dichlorobenzene	ND	5.0	ug/L	CFR136A 624
1,3-Dichlorobenzene	ND	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	ND	5.0	ug/L	CFR136A 624
1,1-Dichloroethane	ND	5.0	ug/L	CFR136A 624
1,2-Dichloroethane	ND	5.0	ug/L	CFR136A 624
1,1-Dichloroethene	ND	5.0	ug/L	CFR136A 624
trans-1,2-Dichloroethene	ND	5.0	ug/L	CFR136A 624
1,2-Dichloropropane	ND	5.0	ug/L	CFR136A 624
1,3-Dichloropropene (total)	ND	5.0	ug/L	CFR136A 624
Ethylbenzene	ND	5.0	ug/L	CFR136A 624
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	CFR136A 624
Tetrachloroethene	ND	5.0	ug/L	CFR136A 624
Toluene	ND	5.0	ug/L	CFR136A 624
1,1,1-Trichloroethane	ND	5.0	ug/L	CFR136A 624
1,1,2-Trichloroethane	ND	5.0	ug/L	CFR136A 624
Trichloroethene	ND	5.0	ug/L	CFR136A 624
Vinyl chloride	ND	10	ug/L	CFR136A 624
cis-1,3-Dichloropropene	ND	10	ug/L	CFR136A 624
trans-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
Trichlorofluoromethane	ND	15	ug/L	CFR136A 624
Acetone	ND	20	ug/L	CFR136A 624
Dichlorodifluoromethane	ND	10	ug/L	CFR136A 624
cis-1,2-Dichloroethene	ND	5.0	ug/L	CFR136A 624
Xylenes (total)	ND	10	ug/L	CFR136A 624

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	114	(73 - 122)
4-Bromofluorobenzene	107	(79 - 119)
Toluene-d8	94	(80 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LHF871AC Matrix.....: WATER
LCS Lot-Sample#: D9H040000-081
Prep Date.....: 08/03/09 Analysis Date..: 08/03/09
Prep Batch #...: 9216081 Analysis Time..: 10:16
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethane	85	(59 - 155)	CFR136A 624
1,1-Dichloroethene	76	(10 - 234)	CFR136A 624
1,1,1-Trichloroethane	85	(52 - 162)	CFR136A 624
1,1,2-Trichloroethane	83	(52 - 150)	CFR136A 624
1,1,2,2-Tetrachloroethane	89	(46 - 157)	CFR136A 624
1,2-Dichlorobenzene	82	(18 - 190)	CFR136A 624
1,2-Dichloroethane	87	(49 - 155)	CFR136A 624
1,2-Dichloropropane	81	(10 - 210)	CFR136A 624
1,3-Dichlorobenzene	81	(59 - 156)	CFR136A 624
1,4-Dichlorobenzene	81	(18 - 190)	CFR136A 624
2-Chloroethyl vinyl ether	104	(10 - 305)	CFR136A 624
Acrylonitrile	106	(48 - 149)	CFR136A 624
Benzene	83	(37 - 151)	CFR136A 624
Bromodichloromethane	80	(35 - 155)	CFR136A 624
Bromoform	84	(45 - 169)	CFR136A 624
Bromomethane	83	(10 - 242)	CFR136A 624
Carbon tetrachloride	84	(70 - 140)	CFR136A 624
Chlorobenzene	81	(37 - 160)	CFR136A 624
Chloroethane	79	(14 - 230)	CFR136A 624
Chloroform	84	(51 - 138)	CFR136A 624
Chloromethane	75	(10 - 273)	CFR136A 624
cis-1,3-Dichloropropene	70	(10 - 227)	CFR136A 624
Dibromochloromethane	73	(53 - 149)	CFR136A 624
Ethylbenzene	74	(37 - 162)	CFR136A 624
Methylene chloride	81	(10 - 221)	CFR136A 624
Tetrachloroethene	77	(64 - 148)	CFR136A 624
Toluene	78	(47 - 150)	CFR136A 624
trans-1,2-Dichloroethene	82	(54 - 156)	CFR136A 624
trans-1,3-Dichloropropene	72	(17 - 183)	CFR136A 624
Trichloroethene	84	(71 - 157)	CFR136A 624
Trichlorofluoromethane	82	(17 - 181)	CFR136A 624
Vinyl chloride	77	(10 - 251)	CFR136A 624
Acetone	92	(42 - 170)	CFR136A 624
1,3-Dichloropropene (total)	71	(17 - 183)	CFR136A 624

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AC **Matrix.....:** WATER
LCS Lot-Sample#: D9H040000-081

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Xylenes (total)	**75**	**(50 - 150)**	**CFR136A 624**
1,4-Dioxane	**78**	**(25 - 141)**	**CFR136A 624**
Hexane	**99**	**(69 - 143)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(73 - 122)
4-Bromofluorobenzene	109	(79 - 119)
Toluene-d8	97	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LHF871AC Matrix.....: WATER
LCS Lot-Sample#: D9H040000-081
Prep Date.....: 08/03/09 Analysis Date..: 08/03/09
Prep Batch #...: 9216081 Analysis Time..: 10:16
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethane	20.0	17.0	ug/L	85	CFR136A 624
1,1-Dichloroethene	20.0	15.3	ug/L	76	CFR136A 624
1,1,1-Trichloroethane	20.0	16.9	ug/L	85	CFR136A 624
1,1,2-Trichloroethane	20.0	16.6	ug/L	83	CFR136A 624
1,1,2,2-Tetrachloroethane	20.0	17.9	ug/L	89	CFR136A 624
1,2-Dichlorobenzene	20.0	16.4	ug/L	82	CFR136A 624
1,2-Dichloroethane	20.0	17.5	ug/L	87	CFR136A 624
1,2-Dichloropropane	20.0	16.2	ug/L	81	CFR136A 624
1,3-Dichlorobenzene	20.0	16.2	ug/L	81	CFR136A 624
1,4-Dichlorobenzene	20.0	16.3	ug/L	81	CFR136A 624
2-Chloroethyl vinyl ether	20.0	20.8	ug/L	104	CFR136A 624
Acrylonitrile	200	211	ug/L	106	CFR136A 624
Benzene	20.0	16.6	ug/L	83	CFR136A 624
Bromodichloromethane	20.0	16.0	ug/L	80	CFR136A 624
Bromoform	20.0	16.8	ug/L	84	CFR136A 624
Bromomethane	20.0	16.7	ug/L	83	CFR136A 624
Carbon tetrachloride	20.0	16.9	ug/L	84	CFR136A 624
Chlorobenzene	20.0	16.2	ug/L	81	CFR136A 624
Chloroethane	20.0	15.8	ug/L	79	CFR136A 624
Chloroform	20.0	16.9	ug/L	84	CFR136A 624
Chloromethane	20.0	15.0	ug/L	75	CFR136A 624
cis-1,3-Dichloropropene	20.0	14.1	ug/L	70	CFR136A 624
Dibromochloromethane	20.0	14.7	ug/L	73	CFR136A 624
Ethylbenzene	20.0	14.8	ug/L	74	CFR136A 624
Methylene chloride	20.0	16.3	ug/L	81	CFR136A 624
Tetrachloroethene	20.0	15.4	ug/L	77	CFR136A 624
Toluene	20.0	15.6	ug/L	78	CFR136A 624
trans-1,2-Dichloroethene	20.0	16.5	ug/L	82	CFR136A 624
trans-1,3-Dichloropropene	20.0	14.3	ug/L	72	CFR136A 624
Trichloroethene	20.0	16.8	ug/L	84	CFR136A 624
Trichlorofluoromethane	20.0	16.5	ug/L	82	CFR136A 624
Vinyl chloride	20.0	15.5	ug/L	77	CFR136A 624
Acetone	80.0	73.7	ug/L	92	CFR136A 624
1,3-Dichloropropene (total)	40.0	28.4	ug/L	71	CFR136A 624

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AC **Matrix.....:** WATER
LCS Lot-Sample#: D9H040000-081

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Xylenes (total)	**60.0**	**44.9**	**ug/L**	**75**	**CFR136A 624**
1,4-Dioxane	**1000**	**782**	**ug/L**	**78**	**CFR136A 624**
Hexane	**20.0**	**19.7**	**ug/L**	**99**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	100	(73 - 122)
4-Bromofluorobenzene	109	(79 - 119)
Toluene-d8	97	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AD **Matrix.....:** WATER
LCS Lot-Sample#: D9H040000-081
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 14:57
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acrolein	**119**	**(39 - 188)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(73 - 122)
4-Bromofluorobenzene	97	(79 - 119)
Toluene-d8	90	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LHF871AD **Matrix.....:** WATER
LCS Lot-Sample#: D9H040000-081
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 14:57
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acrolein	**200**	**237**	**ug/L**	**119**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	101	(73 - 122)
4-Bromofluorobenzene	97	(79 - 119)
Toluene-d8	90	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LG52W1AD-MS Matrix.....: WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD
Date Sampled...: 07/27/09 13:00 Date Received..: 07/28/09
Prep Date.....: 08/03/09 Analysis Date..: 08/03/09
Prep Batch #...: 9216081 Analysis Time..: 15:41
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethane	95	(59 - 155)			CFR136A 624
	84	(59 - 155)	12	(0-30)	CFR136A 624
1,1-Dichloroethene	81	(10 - 234)			CFR136A 624
	74	(10 - 234)	8.8	(0-30)	CFR136A 624
1,1,1-Trichloroethane	93	(52 - 162)			CFR136A 624
	83	(52 - 162)	11	(0-30)	CFR136A 624
1,1,2-Trichloroethane	87	(52 - 150)			CFR136A 624
	82	(52 - 150)	5.8	(0-30)	CFR136A 624
1,1,2,2-Tetrachloroethane	98	(46 - 157)			CFR136A 624
	92	(46 - 157)	6.0	(0-30)	CFR136A 624
1,2-Dichlorobenzene	86	(18 - 190)			CFR136A 624
	80	(18 - 190)	6.4	(0-30)	CFR136A 624
1,2-Dichloroethane	101	(49 - 155)			CFR136A 624
	92	(49 - 155)	9.8	(0-30)	CFR136A 624
1,2-Dichloropropane	84	(10 - 210)			CFR136A 624
	81	(10 - 210)	3.1	(0-30)	CFR136A 624
1,3-Dichlorobenzene	86	(59 - 156)			CFR136A 624
	80	(59 - 156)	6.9	(0-30)	CFR136A 624
1,4-Dichlorobenzene	86	(18 - 190)			CFR136A 624
	81	(18 - 190)	5.6	(0-30)	CFR136A 624
2-Chloroethyl vinyl ether	107	(10 - 305)			CFR136A 624
	109	(10 - 305)	1.9	(0-45)	CFR136A 624
Acrylonitrile	126	(48 - 149)			CFR136A 624
	106	(48 - 149)	16	(0-30)	CFR136A 624
Benzene	91	(37 - 151)			CFR136A 624
	80	(37 - 151)	13	(0-30)	CFR136A 624
Bromodichloromethane	86	(35 - 155)			CFR136A 624
	81	(35 - 155)	6.5	(0-30)	CFR136A 624
Bromoform	89	(45 - 169)			CFR136A 624
	83	(45 - 169)	6.4	(0-30)	CFR136A 624
Bromomethane	95	(10 - 242)			CFR136A 624
	66 p	(10 - 242)	36	(0-30)	CFR136A 624
Carbon tetrachloride	94	(70 - 140)			CFR136A 624
	85	(70 - 140)	9.8	(0-30)	CFR136A 624
Chlorobenzene	86	(37 - 160)			CFR136A 624
	82	(37 - 160)	4.5	(0-30)	CFR136A 624
Chloroethane	97	(14 - 230)			CFR136A 624
	69 p	(14 - 230)	34	(0-30)	CFR136A 624
Chloroform	96	(51 - 138)			CFR136A 624
	86	(51 - 138)	12	(0-30)	CFR136A 624

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Chloromethane	97	(10 - 273)			CFR136A 624
	81	(10 - 273)	18	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	68	(10 - 227)			CFR136A 624
	70	(10 - 227)	1.9	(0-30)	CFR136A 624
Dibromochloromethane	79	(53 - 149)			CFR136A 624
	76	(53 - 149)	3.9	(0-30)	CFR136A 624
Ethylbenzene	77	(37 - 162)			CFR136A 624
	73	(37 - 162)	5.0	(0-30)	CFR136A 624
Methylene chloride	97	(10 - 221)			CFR136A 624
	84	(10 - 221)	13	(0-30)	CFR136A 624
Tetrachloroethene	81	(64 - 148)			CFR136A 624
	77	(64 - 148)	4.8	(0-30)	CFR136A 624
Toluene	77	(47 - 150)			CFR136A 624
	74	(47 - 150)	4.0	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	88	(54 - 156)			CFR136A 624
	79	(54 - 156)	11	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	70	(17 - 183)			CFR136A 624
	71	(17 - 183)	1.2	(0-30)	CFR136A 624
Trichloroethene	88	(71 - 157)			CFR136A 624
	78	(71 - 157)	12	(0-30)	CFR136A 624
Trichlorofluoromethane	101	(17 - 181)			CFR136A 624
	81	(17 - 181)	21	(0-30)	CFR136A 624
Vinyl chloride	99	(10 - 251)			CFR136A 624
	81	(10 - 251)	20	(0-30)	CFR136A 624
Acetone	107	(42 - 170)			CFR136A 624
	87	(42 - 170)	20	(0-20)	CFR136A 624
1,3-Dichloropropene (total)	69	(17 - 183)			CFR136A 624
	70	(17 - 183)	1.6	(0-30)	CFR136A 624
Xylenes (total)	76	(50 - 150)			CFR136A 624
	73	(50 - 150)	3.4	(0-30)	CFR136A 624
1,4-Dioxane	76	(25 - 141)			CFR136A 624
	80	(25 - 141)	6.3	(0-20)	CFR136A 624
Hexane	112	(69 - 143)			CFR136A 624
	98	(69 - 143)	13	(0-20)	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	120	(73 - 122)
	104	(73 - 122)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	116	(79 - 119)
	108	(79 - 119)
Toluene-d8	100	(80 - 120)
	93	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AG-MSD
Date Sampled...: 07/27/09 13:00 **Date Received..:** 07/28/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 16:25
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acrolein	**149**	**(39 - 188)**			**CFR136A 624**
	124	**(39 - 188)**	**19**	**(0-30)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(73 - 122)
	110	(73 - 122)
4-Bromofluorobenzene	106	(79 - 119)
	107	(79 - 119)
Toluene-d8	96	(80 - 120)
	96	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD
Date Sampled...: 07/27/09 13:00 **Date Received..:** 07/28/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 15:41
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethane	ND	20.0	18.9	ug/L	95		CFR136A 624
	ND	20.0	16.8	ug/L	84	12	CFR136A 624
1,1-Dichloroethene	ND	20.0	16.2	ug/L	81		CFR136A 624
	ND	20.0	14.8	ug/L	74	8.8	CFR136A 624
1,1,1-Trichloroethane	ND	20.0	18.6	ug/L	93		CFR136A 624
	ND	20.0	16.7	ug/L	83	11	CFR136A 624
1,1,2-Trichloroethane	ND	20.0	17.4	ug/L	87		CFR136A 624
	ND	20.0	16.4	ug/L	82	5.8	CFR136A 624
1,1,2,2-Tetrachloroethane	ND	20.0	19.6	ug/L	98		CFR136A 624
	ND	20.0	18.5	ug/L	92	6.0	CFR136A 624
1,2-Dichlorobenzene	ND	20.0	17.1	ug/L	86		CFR136A 624
	ND	20.0	16.0	ug/L	80	6.4	CFR136A 624
1,2-Dichloroethane	ND	20.0	20.2	ug/L	101		CFR136A 624
	ND	20.0	18.3	ug/L	92	9.8	CFR136A 624
1,2-Dichloropropane	ND	20.0	16.7	ug/L	84		CFR136A 624
	ND	20.0	16.2	ug/L	81	3.1	CFR136A 624
1,3-Dichlorobenzene	ND	20.0	17.2	ug/L	86		CFR136A 624
	ND	20.0	16.0	ug/L	80	6.9	CFR136A 624
1,4-Dichlorobenzene	ND	20.0	17.1	ug/L	86		CFR136A 624
	ND	20.0	16.2	ug/L	81	5.6	CFR136A 624
2-Chloroethyl vinyl ether	ND	20.0	21.5	ug/L	107		CFR136A 624
	ND	20.0	21.9	ug/L	109	1.9	CFR136A 624
Acrylonitrile	ND	200	251	ug/L	126		CFR136A 624
	ND	200	213	ug/L	106	16	CFR136A 624
Benzene	ND	20.0	18.2	ug/L	91		CFR136A 624
	ND	20.0	16.1	ug/L	80	13	CFR136A 624
Bromodichloromethane	ND	20.0	17.3	ug/L	86		CFR136A 624
	ND	20.0	16.2	ug/L	81	6.5	CFR136A 624
Bromoform	ND	20.0	17.8	ug/L	89		CFR136A 624
	ND	20.0	16.7	ug/L	83	6.4	CFR136A 624
Bromomethane	ND	20.0	19.0	ug/L	95		CFR136A 624
	ND	20.0	13.3	ug/L	66 p	36	CFR136A 624
Carbon tetrachloride	ND	20.0	18.8	ug/L	94		CFR136A 624
	ND	20.0	17.1	ug/L	85	9.8	CFR136A 624
Chlorobenzene	ND	20.0	17.3	ug/L	86		CFR136A 624
	ND	20.0	16.5	ug/L	82	4.5	CFR136A 624
Chloroethane	ND	20.0	19.3	ug/L	97		CFR136A 624
	ND	20.0	13.7	ug/L	69 p	34	CFR136A 624
Chloroform	ND	20.0	19.2	ug/L	96		CFR136A 624
	ND	20.0	17.1	ug/L	86	12	CFR136A 624

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Chloromethane	ND	20.0	19.4	ug/L	97		CFR136A 624
	ND	20.0	16.2	ug/L	81	18	CFR136A 624
cis-1,3-Dichloropropene	ND	20.0	13.6	ug/L	68		CFR136A 624
	ND	20.0	13.9	ug/L	70	1.9	CFR136A 624
Dibromochloromethane	ND	20.0	15.7	ug/L	79		CFR136A 624
	ND	20.0	15.1	ug/L	76	3.9	CFR136A 624
Ethylbenzene	ND	20.0	15.3	ug/L	77		CFR136A 624
	ND	20.0	14.6	ug/L	73	5.0	CFR136A 624
Methylene chloride	ND	20.0	19.3	ug/L	97		CFR136A 624
	ND	20.0	16.9	ug/L	84	13	CFR136A 624
Tetrachloroethene	ND	20.0	16.2	ug/L	81		CFR136A 624
	ND	20.0	15.4	ug/L	77	4.8	CFR136A 624
Toluene	ND	20.0	15.4	ug/L	77		CFR136A 624
	ND	20.0	14.8	ug/L	74	4.0	CFR136A 624
trans-1,2-Dichloroethene	ND	20.0	17.7	ug/L	88		CFR136A 624
	ND	20.0	15.8	ug/L	79	11	CFR136A 624
trans-1,3-Dichloropropene	ND	20.0	13.9	ug/L	70		CFR136A 624
	ND	20.0	14.1	ug/L	71	1.2	CFR136A 624
Trichloroethene	ND	20.0	17.5	ug/L	88		CFR136A 624
	ND	20.0	15.5	ug/L	78	12	CFR136A 624
Trichlorofluoromethane	ND	20.0	20.1	ug/L	101		CFR136A 624
	ND	20.0	16.2	ug/L	81	21	CFR136A 624
Vinyl chloride	ND	20.0	19.8	ug/L	99		CFR136A 624
	ND	20.0	16.3	ug/L	81	20	CFR136A 624
Acetone	ND	80.0	85.7	ug/L	107		CFR136A 624
	ND	80.0	69.9	ug/L	87	20	CFR136A 624
1,3-Dichloropropene (total)	ND	40.0	27.6	ug/L	69		CFR136A 624
	ND	40.0	28.0	ug/L	70	1.6	CFR136A 624
Xylenes (total)	ND	60.0	45.4	ug/L	76		CFR136A 624
	ND	60.0	43.9	ug/L	73	3.4	CFR136A 624
1,4-Dioxane	ND	1000	756	ug/L	76		CFR136A 624
	ND	1000	805	ug/L	80	6.3	CFR136A 624
Hexane	ND	20.0	22.5	ug/L	112		CFR136A 624
	ND	20.0	19.7	ug/L	98	13	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	120	(73 - 122)
	104	(73 - 122)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	116	(79 - 119)
	108	(79 - 119)
Toluene-d8	100	(80 - 120)
	93	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LG52W1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: D9G280159-001 LG52W1AG-MSD
Date Sampled...: 07/27/09 13:00 **Date Received..:** 07/28/09
Prep Date.....: 08/03/09 **Analysis Date..:** 08/03/09
Prep Batch #...: 9216081 **Analysis Time..:** 16:25
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acrolein	**ND**	**200**	**298**	**ug/L**	**149**		**CFR136A 624**
	ND	**200**	**247**	**ug/L**	**124**	**19**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(73 - 122)
	110	(73 - 122)
4-Bromofluorobenzene	106	(79 - 119)
	107	(79 - 119)
Toluene-d8	96	(80 - 120)
	96	(80 - 120)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH04A1AA **Matrix.....:** SOLID
MB Lot-Sample #: D9H110000-514

Prep Date.....: 08/06/09 **Analysis Time..:** 18:33
Analysis Date..: 08/11/09 **Prep Batch #...:** 9223514
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	1000	ug/kg	SW846 8260B
Acrolein	ND	5000	ug/kg	SW846 8260B
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
2-Chloroethyl vinyl ether	ND	2500	ug/kg	SW846 8260B
Chloroform	ND	500	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	120	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	120	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,3-Dichloropropene (total)	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
Methylene chloride	**75 J**	**250**	**ug/kg**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH04A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(60 - 133)
1,2-Dichloroethane-d4	107	(50 - 139)
4-Bromofluorobenzene	93	(80 - 133)
Toluene-d8	84	(68 - 143)

NOTE(S):

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

ND: The analyte was analyzed for, but not detected.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH04A1AC Matrix.....: SOLID
LCS Lot-Sample#: D9H110000-514
Prep Date.....: 08/06/09 Analysis Date..: 08/11/09
Prep Batch #...: 9223514 Analysis Time..: 11:00
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1,1,2-Tetrachloroethane	89	(74 - 122)	SW846 8260B
1,1-Dichloropropene	92	(70 - 125)	SW846 8260B
1,2,3-Trichlorobenzene	93	(63 - 124)	SW846 8260B
1,2,3-Trichloropropane	92	(62 - 126)	SW846 8260B
1,2,4-Trichloro-benzene	97	(68 - 123)	SW846 8260B
1,2,4-Trimethylbenzene	91	(72 - 127)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	95	(57 - 125)	SW846 8260B
1,2-Dibromoethane (EDB)	97	(68 - 125)	SW846 8260B
1,3,5-Trimethylbenzene	92	(70 - 128)	SW846 8260B
1,3-Dichloropropane	90	(67 - 126)	SW846 8260B
2,2-Dichloropropane	92	(60 - 136)	SW846 8260B
2-Butanone (MEK)	64	(46 - 166)	SW846 8260B
2-Chlorotoluene	90	(72 - 121)	SW846 8260B
2-Hexanone	54 a	(57 - 150)	SW846 8260B
4-Chlorotoluene	88	(71 - 125)	SW846 8260B
4-Isopropyltoluene	89	(66 - 128)	SW846 8260B
4-Methyl-2-pentanone	64	(60 - 130)	SW846 8260B
Bromobenzene	92	(74 - 119)	SW846 8260B
Bromochloromethane	99	(66 - 117)	SW846 8260B
Carbon disulfide	85	(44 - 127)	SW846 8260B
Dibromomethane	98	(67 - 119)	SW846 8260B
Hexachlorobutadiene	97	(71 - 134)	SW846 8260B
Isopropylbenzene	93	(71 - 121)	SW846 8260B
Naphthalene	93	(51 - 128)	SW846 8260B
n-Butylbenzene	91	(71 - 134)	SW846 8260B
n-Propylbenzene	90	(69 - 125)	SW846 8260B
sec-Butylbenzene	89	(74 - 129)	SW846 8260B
Styrene	96	(64 - 133)	SW846 8260B
tert-Butylbenzene	88	(69 - 128)	SW846 8260B
Methyl tert-butyl ether	77	(55 - 123)	SW846 8260B
Vinyl acetate	97	(31 - 161)	SW846 8260B
1,2-Dichloroethene (total)	92	(71 - 116)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH04A1AC Matrix.....: SOLID
LCS Lot-Sample#: D9H110000-514

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
m-Xylene & p-Xylene	92	(72 - 128)	SW846 8260B
o-Xylene	91	(73 - 126)	SW846 8260B
Acetone	65	(32 - 244)	SW846 8260B
Xylenes (total)	92	(73 - 127)	SW846 8260B
Benzene	93	(67 - 125)	SW846 8260B
Bromodichloromethane	90	(67 - 122)	SW846 8260B
Bromoform	101	(63 - 132)	SW846 8260B
Bromomethane	85	(30 - 139)	SW846 8260B
Carbon tetrachloride	89	(60 - 137)	SW846 8260B
Chlorobenzene	92	(72 - 124)	SW846 8260B
Chloroethane	85	(31 - 134)	SW846 8260B
Chloroform	94	(69 - 122)	SW846 8260B
Chloromethane	82	(22 - 140)	SW846 8260B
cis-1,2-Dichloroethene	93	(68 - 114)	SW846 8260B
cis-1,3-Dichloropropene	93	(72 - 122)	SW846 8260B
Dibromochloromethane	92	(68 - 120)	SW846 8260B
Dichlorodifluoromethane	48	(33 - 104)	SW846 8260B
Ethylbenzene	93	(73 - 127)	SW846 8260B
Methylene chloride	100	(49 - 126)	SW846 8260B
Tetrachloroethene	96	(73 - 131)	SW846 8260B
Toluene	91	(71 - 127)	SW846 8260B
trans-1,2-Dichloroethene	90	(71 - 119)	SW846 8260B
trans-1,3-Dichloropropene	93	(67 - 124)	SW846 8260B
Trichloroethene	96	(70 - 125)	SW846 8260B
Trichlorofluoromethane	91	(47 - 138)	SW846 8260B
Vinyl chloride	87	(31 - 140)	SW846 8260B
1,1,1-Trichloroethane	93	(65 - 129)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(63 - 129)	SW846 8260B
1,1,2-Trichloroethane	93	(68 - 123)	SW846 8260B
1,1-Dichloroethane	90	(66 - 121)	SW846 8260B
1,1-Dichloroethene	97	(62 - 125)	SW846 8260B
1,2-Dichlorobenzene	96	(72 - 118)	SW846 8260B
1,2-Dichloroethane	90	(60 - 125)	SW846 8260B
1,2-Dichloropropane	95	(66 - 119)	SW846 8260B
1,3-Dichlorobenzene	88	(74 - 119)	SW846 8260B
1,4-Dichlorobenzene	102	(73 - 123)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH04A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D9H110000-514

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	116	(60 - 133)
1,2-Dichloroethane-d4	124	(50 - 139)
4-Bromofluorobenzene	126	(80 - 133)
Toluene-d8	125	(68 - 143)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH04A1AC Matrix.....: SOLID
LCS Lot-Sample#: D9H110000-514
Prep Date.....: 08/06/09 Analysis Date..: 08/11/09
Prep Batch #...: 9223514 Analysis Time..: 11:00
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1,1,2-Tetrachloroethane	1990	1760	ug/kg	89	SW846 8260B
1,1-Dichloropropene	1990	1830	ug/kg	92	SW846 8260B
1,2,3-Trichlorobenzene	1990	1860	ug/kg	93	SW846 8260B
1,2,3-Trichloropropane	1990	1840	ug/kg	92	SW846 8260B
1,2,4-Trichloro-benzene	1990	1920	ug/kg	97	SW846 8260B
1,2,4-Trimethylbenzene	1990	1820	ug/kg	91	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	1990	1890	ug/kg	95	SW846 8260B
1,2-Dibromoethane (EDB)	1990	1920	ug/kg	97	SW846 8260B
1,3,5-Trimethylbenzene	1990	1820	ug/kg	92	SW846 8260B
1,3-Dichloropropane	1990	1800	ug/kg	90	SW846 8260B
2,2-Dichloropropane	1990	1830	ug/kg	92	SW846 8260B
2-Butanone (MEK)	3980	2530	ug/kg	64	SW846 8260B
2-Chlorotoluene	1990	1790	ug/kg	90	SW846 8260B
2-Hexanone	3980	2130 a	ug/kg	54	SW846 8260B
4-Chlorotoluene	1990	1750	ug/kg	88	SW846 8260B
4-Isopropyltoluene	1990	1780	ug/kg	89	SW846 8260B
4-Methyl-2-pentanone	3980	2550	ug/kg	64	SW846 8260B
Bromobenzene	1990	1840	ug/kg	92	SW846 8260B
Bromochloromethane	1990	1960	ug/kg	99	SW846 8260B
Carbon disulfide	1990	1690	ug/kg	85	SW846 8260B
Dibromomethane	1990	1950	ug/kg	98	SW846 8260B
Hexachlorobutadiene	1990	1930	ug/kg	97	SW846 8260B
Isopropylbenzene	1990	1840	ug/kg	93	SW846 8260B
Naphthalene	1990	1840	ug/kg	93	SW846 8260B
n-Butylbenzene	1990	1810	ug/kg	91	SW846 8260B
n-Propylbenzene	1990	1790	ug/kg	90	SW846 8260B
sec-Butylbenzene	1990	1770	ug/kg	89	SW846 8260B
Styrene	1990	1900	ug/kg	96	SW846 8260B
tert-Butylbenzene	1990	1740	ug/kg	88	SW846 8260B
Methyl tert-butyl ether	3980	3080	ug/kg	77	SW846 8260B
Vinyl acetate	1990	1930	ug/kg	97	SW846 8260B
1,2-Dichloroethene (total)	3980	3650	ug/kg	92	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH04A1AC Matrix.....: SOLID
LCS Lot-Sample#: D9H110000-514

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
m-Xylene & p-Xylene	3980	3650	ug/kg	92	SW846 8260B
o-Xylene	1990	1820	ug/kg	91	SW846 8260B
Acetone	3980	2570	ug/kg	65	SW846 8260B
Xylenes (total)	5960	5470	ug/kg	92	SW846 8260B
Benzene	1990	1850	ug/kg	93	SW846 8260B
Bromodichloromethane	1990	1780	ug/kg	90	SW846 8260B
Bromoform	1990	2000	ug/kg	101	SW846 8260B
Bromomethane	1990	1690	ug/kg	85	SW846 8260B
Carbon tetrachloride	1990	1780	ug/kg	89	SW846 8260B
Chlorobenzene	1990	1830	ug/kg	92	SW846 8260B
Chloroethane	1990	1700	ug/kg	85	SW846 8260B
Chloroform	1990	1870	ug/kg	94	SW846 8260B
Chloromethane	1990	1630	ug/kg	82	SW846 8260B
cis-1,2-Dichloroethene	1990	1850	ug/kg	93	SW846 8260B
cis-1,3-Dichloropropene	1990	1840	ug/kg	93	SW846 8260B
Dibromochloromethane	1990	1830	ug/kg	92	SW846 8260B
Dichlorodifluoromethane	1990	947	ug/kg	48	SW846 8260B
Ethylbenzene	1990	1840	ug/kg	93	SW846 8260B
Methylene chloride	1990	1990	ug/kg	100	SW846 8260B
Tetrachloroethene	1990	1910	ug/kg	96	SW846 8260B
Toluene	1990	1810	ug/kg	91	SW846 8260B
trans-1,2-Dichloroethene	1990	1800	ug/kg	90	SW846 8260B
trans-1,3-Dichloropropene	1990	1860	ug/kg	93	SW846 8260B
Trichloroethene	1990	1910	ug/kg	96	SW846 8260B
Trichlorofluoromethane	1990	1810	ug/kg	91	SW846 8260B
Vinyl chloride	1990	1720	ug/kg	87	SW846 8260B
1,1,1-Trichloroethane	1990	1860	ug/kg	93	SW846 8260B
1,1,2,2-Tetrachloroethane	1990	1960	ug/kg	98	SW846 8260B
1,1,2-Trichloroethane	1990	1850	ug/kg	93	SW846 8260B
1,1-Dichloroethane	1990	1780	ug/kg	90	SW846 8260B
1,1-Dichloroethene	1990	1930	ug/kg	97	SW846 8260B
1,2-Dichlorobenzene	1990	1910	ug/kg	96	SW846 8260B
1,2-Dichloroethane	1990	1800	ug/kg	90	SW846 8260B
1,2-Dichloropropane	1990	1880	ug/kg	95	SW846 8260B
1,3-Dichlorobenzene	1990	1760	ug/kg	88	SW846 8260B
1,4-Dichlorobenzene	1990	2020	ug/kg	102	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH04A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D9H110000-514

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	116	(60 - 133)
1,2-Dichloroethane-d4	124	(50 - 139)
4-Bromofluorobenzene	126	(80 - 133)
Toluene-d8	125	(68 - 143)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH21W1AC-MS Matrix.....: SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD
Date Sampled...: 07/28/09 00:31 Date Received..: 07/28/09
Prep Date.....: 08/06/09 Analysis Date..: 08/11/09
Prep Batch #...: 9223514 Analysis Time..: 09:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,1,2-Tetrachloroethane	79	(74 - 122)			SW846 8260B
	82	(74 - 122)	4.5	(0-20)	SW846 8260B
1,1-Dichloropropene	71	(70 - 125)			SW846 8260B
	73	(70 - 125)	2.2	(0-20)	SW846 8260B
1,2,3-Trichlorobenzene	48 a	(63 - 124)			SW846 8260B
	50 a	(63 - 124)	4.6	(0-22)	SW846 8260B
1,2,3-Trichloropropane	88	(62 - 126)			SW846 8260B
	92	(62 - 126)	5.0	(0-20)	SW846 8260B
1,2,4-Trichloro-benzene	48 a	(68 - 123)			SW846 8260B
	50 a	(68 - 123)	5.0	(0-20)	SW846 8260B
1,2,4-Trimethylbenzene	59 a	(72 - 127)			SW846 8260B
	63 a	(72 - 127)	7.2	(0-20)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	84	(57 - 125)			SW846 8260B
	86	(57 - 125)	2.6	(0-31)	SW846 8260B
1,2-Dibromoethane (EDB)	85	(68 - 125)			SW846 8260B
	84	(68 - 125)	1.2	(0-36)	SW846 8260B
1,3,5-Trimethylbenzene	58 a	(70 - 128)			SW846 8260B
	64 a	(70 - 128)	11	(0-20)	SW846 8260B
1,3-Dichloropropane	82	(67 - 126)			SW846 8260B
	84	(67 - 126)	2.7	(0-35)	SW846 8260B
2,2-Dichloropropane	83	(60 - 136)			SW846 8260B
	86	(60 - 136)	4.1	(0-27)	SW846 8260B
2-Butanone (MEK)	97	(46 - 166)			SW846 8260B
	97	(46 - 166)	0.31	(0-55)	SW846 8260B
2-Chlorotoluene	63 a	(72 - 121)			SW846 8260B
	68 a	(72 - 121)	7.4	(0-20)	SW846 8260B
2-Hexanone	94	(57 - 150)			SW846 8260B
	99	(57 - 150)	6.1	(0-51)	SW846 8260B
4-Chlorotoluene	64 a	(71 - 125)			SW846 8260B
	71	(71 - 125)	9.7	(0-20)	SW846 8260B
4-Isopropyltoluene	55 a	(66 - 128)			SW846 8260B
	61 a	(66 - 128)	9.2	(0-32)	SW846 8260B
4-Methyl-2-pentanone	92	(60 - 130)			SW846 8260B
	95	(60 - 130)	2.4	(0-43)	SW846 8260B
Bromobenzene	71 a	(74 - 119)			SW846 8260B
	75	(74 - 119)	5.6	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 Work Order #...: LH21W1AC-MS Matrix.....: SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Bromochloromethane	93	(66 - 117)			SW846 8260B
	93	(66 - 117)	0.07	(0-26)	SW846 8260B
Carbon disulfide	56	(44 - 127)			SW846 8260B
	55	(44 - 127)	2.0	(0-23)	SW846 8260B
Dibromomethane	88	(67 - 119)			SW846 8260B
	90	(67 - 119)	2.3	(0-31)	SW846 8260B
Hexachlorobutadiene	44 a	(71 - 134)			SW846 8260B
	45 a	(71 - 134)	3.2	(0-20)	SW846 8260B
Isopropylbenzene	68 a	(71 - 121)			SW846 8260B
	73	(71 - 121)	6.8	(0-22)	SW846 8260B
Naphthalene	18 a	(51 - 128)			SW846 8260B
	73 p	(51 - 128)	88	(0-36)	SW846 8260B
n-Butylbenzene	55 a	(71 - 134)			SW846 8260B
	59 a	(71 - 134)	6.4	(0-23)	SW846 8260B
n-Propylbenzene	64 a	(69 - 125)			SW846 8260B
	67 a	(69 - 125)	4.8	(0-20)	SW846 8260B
sec-Butylbenzene	61 a	(74 - 129)			SW846 8260B
	64 a	(74 - 129)	5.8	(0-26)	SW846 8260B
Styrene	75	(64 - 133)			SW846 8260B
	78	(64 - 133)	3.7	(0-20)	SW846 8260B
tert-Butylbenzene	62 a	(69 - 128)			SW846 8260B
	67 a	(69 - 128)	6.4	(0-32)	SW846 8260B
Methyl tert-butyl ether	81	(55 - 123)			SW846 8260B
	82	(55 - 123)	2.1	(0-33)	SW846 8260B
Vinyl acetate	105	(31 - 161)			SW846 8260B
	110	(31 - 161)	4.9	(0-48)	SW846 8260B
1,2-Dichloroethene (total)	78	(71 - 116)			SW846 8260B
	82	(71 - 116)	4.5	(0-20)	SW846 8260B
m-Xylene & p-Xylene	67 a	(72 - 128)			SW846 8260B
	71 a	(72 - 128)	5.7	(0-23)	SW846 8260B
o-Xylene	67 a	(73 - 126)			SW846 8260B
	72 a	(73 - 126)	6.7	(0-20)	SW846 8260B
1,1,1-Trichloroethane	78	(65 - 129)			SW846 8260B
	79	(65 - 129)	0.35	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	89	(63 - 129)			SW846 8260B
	92	(63 - 129)	3.6	(0-34)	SW846 8260B
1,1,2-Trichloroethane	85	(68 - 123)			SW846 8260B
	87	(68 - 123)	2.4	(0-26)	SW846 8260B
1,1-Dichloroethane	81	(66 - 121)			SW846 8260B
	82	(66 - 121)	1.6	(0-25)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	83	(62 - 125)			SW846 8260B
	83	(62 - 125)	0.26	(0-29)	SW846 8260B
1,2-Dichlorobenzene	67 a	(72 - 118)			SW846 8260B
	74	(72 - 118)	10	(0-20)	SW846 8260B
1,2-Dichloroethane	84	(60 - 125)			SW846 8260B
	85	(60 - 125)	1.6	(0-25)	SW846 8260B
1,2-Dichloropropane	83	(66 - 119)			SW846 8260B
	86	(66 - 119)	3.1	(0-22)	SW846 8260B
1,3-Dichlorobenzene	59 a	(74 - 119)			SW846 8260B
	61 a	(74 - 119)	3.8	(0-20)	SW846 8260B
1,4-Dichlorobenzene	69 a	(73 - 123)			SW846 8260B
	72 a	(73 - 123)	3.5	(0-20)	SW846 8260B
Acetone	83	(32 - 244)			SW846 8260B
	103	(32 - 244)	22	(0-59)	SW846 8260B
Benzene	79	(67 - 125)			SW846 8260B
	80	(67 - 125)	0.83	(0-20)	SW846 8260B
Bromodichloromethane	86	(67 - 122)			SW846 8260B
	87	(67 - 122)	1.2	(0-23)	SW846 8260B
Bromoform	91	(63 - 132)			SW846 8260B
	91	(63 - 132)	0.47	(0-35)	SW846 8260B
Bromomethane	62	(30 - 139)			SW846 8260B
	64	(30 - 139)	2.9	(0-37)	SW846 8260B
Carbon tetrachloride	75	(60 - 137)			SW846 8260B
	72	(60 - 137)	4.6	(0-21)	SW846 8260B
Chlorobenzene	74	(72 - 124)			SW846 8260B
	77	(72 - 124)	4.6	(0-20)	SW846 8260B
Chloroethane	64	(31 - 134)			SW846 8260B
	65	(31 - 134)	2.2	(0-35)	SW846 8260B
Chloroform	88	(69 - 122)			SW846 8260B
	90	(69 - 122)	2.7	(0-20)	SW846 8260B
Chloromethane	62	(22 - 140)			SW846 8260B
	62	(22 - 140)	0.13	(0-32)	SW846 8260B
cis-1,2-Dichloroethene	81	(68 - 114)			SW846 8260B
	86	(68 - 114)	6.3	(0-25)	SW846 8260B
cis-1,3-Dichloropropene	81	(72 - 122)			SW846 8260B
	86	(72 - 122)	5.7	(0-21)	SW846 8260B
Dibromochloromethane	85	(68 - 120)			SW846 8260B
	88	(68 - 120)	3.8	(0-27)	SW846 8260B
Dichlorodifluoromethane	31 a	(33 - 104)			SW846 8260B
	31 a	(33 - 104)	0.67	(0-33)	SW846 8260B
Ethylbenzene	70 a	(73 - 127)			SW846 8260B
	72 a	(73 - 127)	3.7	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methylene chloride	**92**	**(49 - 126)**			**SW846 8260B**
	92	**(49 - 126)**	**0.17**	**(0-22)**	**SW846 8260B**
Tetrachloroethene	**63 a**	**(73 - 131)**			**SW846 8260B**
	65 a	**(73 - 131)**	**3.3**	**(0-20)**	**SW846 8260B**
Toluene	**72**	**(71 - 127)**			**SW846 8260B**
	76	**(71 - 127)**	**5.6**	**(0-20)**	**SW846 8260B**
trans-1,2-Dichloroethene	**75**	**(71 - 119)**			**SW846 8260B**
	77	**(71 - 119)**	**2.5**	**(0-25)**	**SW846 8260B**
trans-1,3-Dichloropropene	**85**	**(67 - 124)**			**SW846 8260B**
	86	**(67 - 124)**	**1.6**	**(0-24)**	**SW846 8260B**
Trichloroethene	**76**	**(70 - 125)**			**SW846 8260B**
	79	**(70 - 125)**	**3.9**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	**64**	**(47 - 138)**			**SW846 8260B**
	64	**(47 - 138)**	**0.40**	**(0-28)**	**SW846 8260B**
Vinyl chloride	**64**	**(31 - 140)**			**SW846 8260B**
	63	**(31 - 140)**	**1.7**	**(0-30)**	**SW846 8260B**
Xylenes (total)	**67 a**	**(73 - 127)**			**SW846 8260B**
	71 a	**(73 - 127)**	**6.0**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(60 - 133)
	84	(60 - 133)
1,2-Dichloroethane-d4	88	(50 - 139)
	92	(50 - 139)
4-Bromofluorobenzene	75 *	(80 - 133)
	79 *	(80 - 133)
Toluene-d8	72	(68 - 143)
	80	(68 - 143)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD
Date Sampled...: 07/28/09 00:31 **Date Received..:** 07/28/09
Prep Date.....: 08/06/09 **Analysis Date..:** 08/11/09
Prep Batch #...: 9223514 **Analysis Time..:** 09:59
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,1,2-Tetrachloroethane	ND	2000	1570	ug/kg	79		SW846 8260B
	ND	2000	1640	ug/kg	82	4.5	SW846 8260B
1,1-Dichloropropene	ND	2000	1430	ug/kg	71		SW846 8260B
	ND	2000	1460	ug/kg	73	2.2	SW846 8260B
1,2,3-Trichlorobenzene	ND	2000	959	ug/kg	48 a		SW846 8260B
	ND	2000	1000	ug/kg	50 a	4.6	SW846 8260B
1,2,3-Trichloropropane	ND	2000	1750	ug/kg	88		SW846 8260B
	ND	2000	1840	ug/kg	92	5.0	SW846 8260B
1,2,4-Trichloro-benzene	ND	2000	960	ug/kg	48 a		SW846 8260B
	ND	2000	1010	ug/kg	50 a	5.0	SW846 8260B
1,2,4-Trimethylbenzene	52	2000	1230	ug/kg	59 a		SW846 8260B
	52	2000	1320	ug/kg	63 a	7.2	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2000	1680	ug/kg	84		SW846 8260B
	ND	2000	1730	ug/kg	86	2.6	SW846 8260B
1,2-Dibromoethane (EDB)	ND	2000	1690	ug/kg	85		SW846 8260B
	ND	2000	1670	ug/kg	84	1.2	SW846 8260B
1,3,5-Trimethylbenzene	54	2000	1200	ug/kg	58 a		SW846 8260B
	54	2000	1340	ug/kg	64 a	11	SW846 8260B
1,3-Dichloropropane	ND	2000	1640	ug/kg	82		SW846 8260B
	ND	2000	1680	ug/kg	84	2.7	SW846 8260B
2,2-Dichloropropane	ND	2000	1650	ug/kg	83		SW846 8260B
	ND	2000	1720	ug/kg	86	4.1	SW846 8260B
2-Butanone (MEK)	ND	3990	3880	ug/kg	97		SW846 8260B
	ND	4000	3890	ug/kg	97	0.31	SW846 8260B
2-Chlorotoluene	ND	2000	1260	ug/kg	63 a		SW846 8260B
	ND	2000	1360	ug/kg	68 a	7.4	SW846 8260B
2-Hexanone	ND	3990	3740	ug/kg	94		SW846 8260B
	ND	4000	3970	ug/kg	99	6.1	SW846 8260B
4-Chlorotoluene	ND	2000	1290	ug/kg	64 a		SW846 8260B
	ND	2000	1420	ug/kg	71	9.7	SW846 8260B
4-Isopropyltoluene	69	2000	1170	ug/kg	55 a		SW846 8260B
	69	2000	1280	ug/kg	61 a	9.2	SW846 8260B
4-Methyl-2-pentanone	ND	3990	3690	ug/kg	92		SW846 8260B
	ND	4000	3780	ug/kg	95	2.4	SW846 8260B
Bromobenzene	ND	2000	1420	ug/kg	71 a		SW846 8260B
	ND	2000	1500	ug/kg	75	5.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Bromochloromethane	ND	2000	1850	ug/kg	93		SW846 8260B
	ND	2000	1850	ug/kg	93	0.07	SW846 8260B
Carbon disulfide	ND	2000	1120	ug/kg	56		SW846 8260B
	ND	2000	1100	ug/kg	55	2.0	SW846 8260B
Dibromomethane	ND	2000	1750	ug/kg	88		SW846 8260B
	ND	2000	1800	ug/kg	90	2.3	SW846 8260B
Hexachlorobutadiene	ND	2000	873	ug/kg	44 a		SW846 8260B
	ND	2000	902	ug/kg	45 a	3.2	SW846 8260B
Isopropylbenzene	ND	2000	1370	ug/kg	68 a		SW846 8260B
	ND	2000	1460	ug/kg	73	6.8	SW846 8260B
Naphthalene	350	2000	711	ug/kg	18 a		SW846 8260B
	350	2000	1820	ug/kg	73 p	88	SW846 8260B
n-Butylbenzene	51	2000	1150	ug/kg	55 a		SW846 8260B
	51	2000	1230	ug/kg	59 a	6.4	SW846 8260B
n-Propylbenzene	ND	2000	1270	ug/kg	64 a		SW846 8260B
	ND	2000	1330	ug/kg	67 a	4.8	SW846 8260B
sec-Butylbenzene	ND	2000	1210	ug/kg	61 a		SW846 8260B
	ND	2000	1280	ug/kg	64 a	5.8	SW846 8260B
Styrene	ND	2000	1500	ug/kg	75		SW846 8260B
	ND	2000	1560	ug/kg	78	3.7	SW846 8260B
tert-Butylbenzene	ND	2000	1250	ug/kg	62 a		SW846 8260B
	ND	2000	1330	ug/kg	67 a	6.4	SW846 8260B
Methyl tert-butyl ether	ND	3990	3230	ug/kg	81		SW846 8260B
	ND	4000	3300	ug/kg	82	2.1	SW846 8260B
Vinyl acetate	ND	2000	2090	ug/kg	105		SW846 8260B
	ND	2000	2200	ug/kg	110	4.9	SW846 8260B
1,2-Dichloroethene (total)	ND	3990	3120	ug/kg	78		SW846 8260B
	ND	4000	3260	ug/kg	82	4.5	SW846 8260B
m-Xylene & p-Xylene	ND	3990	2670	ug/kg	67 a		SW846 8260B
	ND	4000	2820	ug/kg	71 a	5.7	SW846 8260B
o-Xylene	ND	2000	1350	ug/kg	67 a		SW846 8260B
	ND	2000	1440	ug/kg	72 a	6.7	SW846 8260B
1,1,1-Trichloroethane	ND	2000	1570	ug/kg	78		SW846 8260B
	ND	2000	1570	ug/kg	79	0.35	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	2000	1780	ug/kg	89		SW846 8260B
	ND	2000	1840	ug/kg	92	3.6	SW846 8260B
1,1,2-Trichloroethane	ND	2000	1700	ug/kg	85		SW846 8260B
	ND	2000	1740	ug/kg	87	2.4	SW846 8260B
1,1-Dichloroethane	ND	2000	1620	ug/kg	81		SW846 8260B
	ND	2000	1640	ug/kg	82	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	2000	1650	ug/kg	83		SW846 8260B
	ND	2000	1660	ug/kg	83	0.26	SW846 8260B
1,2-Dichlorobenzene	ND	2000	1340	ug/kg	67 a		SW846 8260B
	ND	2000	1480	ug/kg	74	10	SW846 8260B
1,2-Dichloroethane	ND	2000	1680	ug/kg	84		SW846 8260B
	ND	2000	1700	ug/kg	85	1.6	SW846 8260B
1,2-Dichloropropane	ND	2000	1660	ug/kg	83		SW846 8260B
	ND	2000	1710	ug/kg	86	3.1	SW846 8260B
1,3-Dichlorobenzene	ND	2000	1180	ug/kg	59 a		SW846 8260B
	ND	2000	1230	ug/kg	61 a	3.8	SW846 8260B
1,4-Dichlorobenzene	ND	2000	1380	ug/kg	69 a		SW846 8260B
	ND	2000	1430	ug/kg	72 a	3.5	SW846 8260B
Acetone	ND	3990	3320	ug/kg	83		SW846 8260B
	ND	4000	4140	ug/kg	103	22	SW846 8260B
Benzene	ND	2000	1580	ug/kg	79		SW846 8260B
	ND	2000	1590	ug/kg	80	0.83	SW846 8260B
Bromodichloromethane	ND	2000	1720	ug/kg	86		SW846 8260B
	ND	2000	1750	ug/kg	87	1.2	SW846 8260B
Bromoform	ND	2000	1810	ug/kg	91		SW846 8260B
	ND	2000	1820	ug/kg	91	0.47	SW846 8260B
Bromomethane	ND	2000	1230	ug/kg	62		SW846 8260B
	ND	2000	1270	ug/kg	64	2.9	SW846 8260B
Carbon tetrachloride	ND	2000	1500	ug/kg	75		SW846 8260B
	ND	2000	1440	ug/kg	72	4.6	SW846 8260B
Chlorobenzene	ND	2000	1470	ug/kg	74		SW846 8260B
	ND	2000	1540	ug/kg	77	4.6	SW846 8260B
Chloroethane	ND	2000	1270	ug/kg	64		SW846 8260B
	ND	2000	1300	ug/kg	65	2.2	SW846 8260B
Chloroform	ND	2000	1750	ug/kg	88		SW846 8260B
	ND	2000	1800	ug/kg	90	2.7	SW846 8260B
Chloromethane	ND	2000	1240	ug/kg	62		SW846 8260B
	ND	2000	1240	ug/kg	62	0.13	SW846 8260B
cis-1,2-Dichloroethene	ND	2000	1610	ug/kg	81		SW846 8260B
	ND	2000	1720	ug/kg	86	6.3	SW846 8260B
cis-1,3-Dichloropropene	ND	2000	1630	ug/kg	81		SW846 8260B
	ND	2000	1720	ug/kg	86	5.7	SW846 8260B
Dibromochloromethane	ND	2000	1690	ug/kg	85		SW846 8260B
	ND	2000	1750	ug/kg	88	3.8	SW846 8260B
Dichlorodifluoromethane	ND	2000	618	ug/kg	31 a		SW846 8260B
	ND	2000	614	ug/kg	31 a	0.67	SW846 8260B
Ethylbenzene	ND	2000	1390	ug/kg	70 a		SW846 8260B
	ND	2000	1450	ug/kg	72 a	3.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D9G310221 **Work Order #...:** LH21W1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D9E110104-083 LH21W1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methylene chloride	**ND**	**2000**	**1830**	**ug/kg**	**92**		**SW846 8260B**
	ND	**2000**	**1830**	**ug/kg**	**92**	**0.17**	**SW846 8260B**
Tetrachloroethene	**ND**	**2000**	**1270**	**ug/kg**	**63 a**		**SW846 8260B**
	ND	**2000**	**1310**	**ug/kg**	**65 a**	**3.3**	**SW846 8260B**
Toluene	**ND**	**2000**	**1430**	**ug/kg**	**72**		**SW846 8260B**
	ND	**2000**	**1520**	**ug/kg**	**76**	**5.6**	**SW846 8260B**
trans-1,2-Dichloroethene	**ND**	**2000**	**1510**	**ug/kg**	**75**		**SW846 8260B**
	ND	**2000**	**1540**	**ug/kg**	**77**	**2.5**	**SW846 8260B**
trans-1,3-Dichloropropene	**ND**	**2000**	**1700**	**ug/kg**	**85**		**SW846 8260B**
	ND	**2000**	**1730**	**ug/kg**	**86**	**1.6**	**SW846 8260B**
Trichloroethene	**ND**	**2000**	**1520**	**ug/kg**	**76**		**SW846 8260B**
	ND	**2000**	**1580**	**ug/kg**	**79**	**3.9**	**SW846 8260B**
Trichlorofluoromethane	**ND**	**2000**	**1270**	**ug/kg**	**64**		**SW846 8260B**
	ND	**2000**	**1280**	**ug/kg**	**64**	**0.40**	**SW846 8260B**
Vinyl chloride	**ND**	**2000**	**1280**	**ug/kg**	**64**		**SW846 8260B**
	ND	**2000**	**1250**	**ug/kg**	**63**	**1.7**	**SW846 8260B**
Xylenes (total)	**ND**	**5990**	**4010**	**ug/kg**	**67 a**		**SW846 8260B**
	ND	**6000**	**4260**	**ug/kg**	**71 a**	**6.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(60 - 133)
	84	(60 - 133)
1,2-Dichloroethane-d4	88	(50 - 139)
	92	(50 - 139)
4-Bromofluorobenzene	75 *	(80 - 133)
	79 *	(80 - 133)
Toluene-d8	72	(68 - 143)
	80	(68 - 143)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

SGS

SGS Environmental Services Inc.
CHAIN OF CUSTODY RECORD

4.8°C @ 7/31/09 1R

Locations Nationwide
- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Ohio

www.us.sgs.com

53

(1)

CLIENT: SGS-AK

CONTACT: FOREST TAYLOR PHONE NO: 907 562 2343

PROJECT: KLI 516101 SITE/PWSID#:

REPORTS TO: EMAIL:

INVOICE TO: QUOTE #:

P.O. #: 1093689

SGS Reference #: TEST AMERICA - CO

page 1 of 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/ MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= COMP G= GRAB MI= Multi Incremental Samples	VOC 624 *	VOC 624 *	REMARKS/ ~~LOC ID~~
						Preservatives Used	HCl	MeOH	
						Analysis Required (3)			
	MOA09VOP038	7/28/09	0555	SLUDGE	1	G		✓	1093689001
	MOA09VOP036	7/27/09	1430	H_2O	3	G	✓		1093689022
	TRIP BLANK	7/28/09	0555	SOIL	1	G		✓	1093689039
	MOA09VOP037	7/27/09	1015	H_2O	3	G	✓		1093689040
	EFF COMP	7/28/09	0605	H_2O	2	G	✓		1093689041
	INF COMP	7/28/09	0600	H_2O	2	G	✓		1093689042

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Forest Taylor	7/31/09	1040	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 7/31/09	Time 1000	Received For Laboratory By:

(4)

DOD Project? YES NO

Cooler ID

Special Deliverable Requirements: LEVEL II + EDD

Requested Turnaround Time and-or Special Instructions: FULL LIST. MUST INCLUDE ACETONE, ACROLEIN, & ACRYLONITRILE.

Samples Received Cold? YES NO

Cooler TB

Temperature°C: _____ . _____

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 Days | **P.O. #:** AK09- 1011 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8260B. **Report using EPA 624 analyte list.** Detection limits as per method. Please report in dry weight.:

MATRIX: Sludge | **Preservative:** None, 4° C | Type of Container: 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP038	Sludge	1	7/28/9	0555		1 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND
[signature]	7/28/9 1125	hand	[signature]	7/29 1130
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND
[signature]	7/28 1206	hand		
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\WETVOP09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8270C. **Report using EPA 625 analyte list.** Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09SVL006	Sludge	1	7/28/9	0555		2 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible] 7/28/9	1125	hand	[illegible]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[illegible]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method. Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container:** 125-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09DXN006	Sludge	1	7/28/9	0555		3 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Pesticides: EPA 8081A plus Mirex, and EPA 8141A for Demeton, Guthion, Malathion, and Parathion only; and EPA 8082. Detection limits 0.01 - 0.06 µg/g (dry weight; Guthion ~5 µg/g). Please report in dry weight.

MATRIX: Sludge	**Preservative:** None, 4°C	**Type of Container**: 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES007	Sludge	2	7/28/9	0555		4 A, B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/9 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

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, 4°C	**Type of Container:** glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET010	Sludge	1	7/28/9	0555		5 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28/9 1125	hand	[signature]	7/29 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/29 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09- 1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water	**Preservative:** HCl, 4°C	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09VOP020	INF CMP #1	2	7/27/9	1015		6 A,B
MOA09VOP021	INF CMP #2	2		1215		7
MOA09VOP022	INF CMP #3	2		1500		8
MOA09VOP023	INF CMP #4	2		1800		9
MOA09VOP024	INF CMP #5	2		2100		10 41 A,B
MOA09VOP025	INF CMP #6	2	7/28/9	0008		11
MOA09VOP026	INF CMP #7	2		0255		12
MOA09VOP027	INF CMP #8	2		0600		13

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 IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28/9 1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK09- 1011 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water | **Preservative:** HCl, 4°C Effluent samples contain L-Ascorbic Acid | **Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOP028	EFF CMP #1	2	7/27/9	1005		14 A,B
MOA09VOP029	EFF CMP #2	2		1155		15
MOA09VOP030	EFF CMP #3	2		1505		16
MOA09VOP031	EFF CMP #4	2		1805		17
MOA09VOP032	EFF CMP #5	2		2109		18
MOA09VOP033	EFF CMP #6	2	7/28/9	0005		19
MOA09VOP034	EFF CMP #7	2		0255		20
MOA09VOP035	EFF CMP #8	2		0605		21

14-21 AB

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 IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

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SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1093689

REQUIRED COMPLETION DATE: 30 Days | **P.O. #:** AK09- 1011 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 624. Detection limits as per method.

MATRIX: Water | **Preservative:** HCl,·4° C | Type of Container: 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09VOP036	C-Station	~~2~~ 3	PRESENT			22 A-C
✓ MOA09VOP037	Trip Blank	3	PRESENT			40 A-C

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/09	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	9/29 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	**Preservative:** NaOH, 4°C Effluent samples contain L- Ascorbic Acid	**Type of Container:** 60 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN015	Influent	1	7/28/9	0910		23 A
MOA09TCN016	Effluent	1	7/28/9	0900		24 A

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/9 1205

SAMPLED BY (NAME/SIGNATURE): _____

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LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratori 1102 West 7th Ave Anchorage, AK 99 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09MET008	Influent	1	7/28/9	0910		25 A,B 25 A
✓ MOA09MET009	Effluent	1	7/28/9	0900		26 A,B 28 A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
7/28/9	1125	hand		7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
7/28	7/28 1205			
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 625. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09SVL004	Influent	2	7/28/9	0910		29 A,B
✓ MOA09SVL005	Effluent	2	7/28/9	0900		30 A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

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RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\ASB_SVLs_PESTs_MET_DXNsWET09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178 1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8280A for TCDD. Detection limits as per method.

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09DXN004	Influent	2	7/28/9	0910		31 A, B
✓ MOA09DXN005	Effluent	2	7/28/9	0900		32 A, B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28/9 1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/9 1205

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\ASB_SVLs_PESTs_MET_DXNsWET09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **Oil & Grease**: EPA 1664

MATRIX: Water	**Preservative:** HCL, 4°C	**Type of Container:** 1-L Amber

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09O&G003	Influent	2	7/28/9	0910		33 A,B
MOA09O&G004	Effluent	2	7/28/9	0900		34 A,B

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28/9 1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/9 1205

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\O-G_Wet_09_water_sludge.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

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, 4°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PST004	Influent	~~4~~ 2	7/28/9	0910		35 ~~A-D~~ A-B
MOA09PST005	Effluent	~~4~~ 2	7/28/9	0900		36 ~~A-D~~ A-B
						FAT 7/29/09

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28/9 1125	hand	[signature]	7/29 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1205

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093689

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Pesticides: EPA 608 plus Mirex and EPA 8082 Detection limits 0.05 - 1.0 µg/L.

MATRIX: Water	**Preservative:** None, 4°C Effluent samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PES005	Influent	2 A	7/28/9	0910		37 ~~A,B~~ A-D
MOA09PES006	Effluent	2 A	7/28/9	0900		38 ~~A,B~~ A-D
						FAT 7/29/09

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/28/9	1125	hand	[signature]	7/28 1130
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1205	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/28/09 1705

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\ASB_SVLs_PESTs_MET_DXNsWET09COC.wpd

SGS

1093689

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
			Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
			If yes, have you done *e-mail ALERT notification*?
			Are samples *within 24 hrs.* of **hold time** or **due date**?
			If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**
		✓	Payment received: $ by Check or Credit Card
	✓		Will courier charges apply?
			Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: 7-28-09

Received Time: 1205

Cooler ID	Temperature TB	Temperature C	Measured w/ (Therm/IR ID#)
1	8.1	6.7 °C	7d 7d
2	—	5.2 °C	7d
3	50	5.6 °C	7d
4	—	20.7 °C	7d

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (√ *if applicable*)

- Extra Sample Volume?
- Limited Sample Volume?
- Multi-Incremental Samples?
- Lab-filtered for dissolved
- Ref Lab required for
- Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.*
		If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact?
		#/ where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*:
		Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM):

Individual contacted:

Via: Phone / Fax / E-mail (*circle one*)

Date/Time:

Reason for contact:

Change Order Required? Yes / No

Notes: SAMPLES ①-③ A ④ A,B, ⑤ A in Cooler #4

SAMPLES (35) A-D (36) A-D (38) A,B in Cooler #1 JSG

SAMPLE (39) A SOIL TRIP BLANK 4Oz Ag w Septa, Septa Clocked, JSG ~~TRIP BLANK NOT LISTED~~.

NOT LISTED ON COC JSG

SAMPLE ⑥A NO PRESERVATIVE (VOC)

Completed by (sign): [signature] **(print):** JAMES DOCHITY

Login proof: Self-check completed JSG **Peer-reviewer's Initials** [illegible]

1 of 2

SGS

1093689

SAMPLE RECEIPT FORM

SGS WO#: _____

Yes	No	NA	
___	___	___	Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
___	___	___	If yes, have you done *e-mail ALERT notification*?
___	___	___	Are samples *within 24 hrs.* of **hold time** or **due date**?
___	___	___	If yes, have you also *spoken with* supervisor?
___	___	___	Archiving bottles: Are lids marked w/ red "X"?
___	___	___	Were samples collected with proper preservative?
___	___	___	**Any problems (ID, cond'n, HT, etc)? Explain:**
___	___	___	If this is for PWS, provide **PWSID:**_____
___	___	___	Payment received: $_____ by Check or Credit Card
___	___	___	Will courier charges apply?
___	___	___	Data package required? (Level: 1 / 2 / 3 / 4)
			Notes: _____
___	___	___	Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: _____

Received Time: _____

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
_____	_____°C	_____
_____	_____°C	_____
_____	_____°C	_____
_____	_____°C	_____

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: (√ *if applicable*)

_____Extra Sample Volume?
_____Limited Sample Volume?
_____Multi-Incremental Samples?
_____Lab-filtered for dissolved_____
_____Ref Lab required for_____
_____Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
___	___	Is received temperature ≤6°C?
___	___	Were containers ice-free? *Notify PM immediately of any ice in samples.*
		If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
___	___	Was there an airbill? *(If "yes," see attached.)*
___	___	Was cooler sealed with custody seals & were they intact?
		#/ where: _____
___	___	Was there a COC with cooler?
___	___	Was COC sealed in plastic bag & taped inside lid of cooler?
___	___	Was the COC filled out properly? Did labels correspond?
___	___	Did the COC indicate USACE / Navy / AFCEE project?
___	___	Samples were packed to prevent breakage with *(circle one)*:
		Bubble Wrap Vermiculite Other (specify): _____
___	___	Were all samples sealed in separate plastic bags?
___	___	Were all VOCs free of headspace and/or MeOH preserved?
___	___	Were correct container / sample sizes submitted?
___	___	Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes: #1 Lab extracted for 8260 JLC 7-29-09 @ 10:00

Completed by (sign): [signature] **(print):** JAMES DOCCHITT

Login proof: Self-check completed_____ **Peer-reviewer's Initials**_____

2 of 2

Form # F004r20 revised 05/05/2009

SGS

1093689

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

						Container Volume							Container Type							Preservative									
#	Container ID	Matrix	Test	QC	TB	1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1	A	7	EPA 624 8260B						1				✓					✓		✓									
2	A	7	EPA 8270					1					✓							✓									
3	A	7	EPA 8280					1					✓							✓									
4	A	7	8081 + MIREX 8141A 8082					1					✓							✓									
	B		EXTRA VOL					1					✓							✓									
5	A	7	METALS TSS CN					1					✓							✓									
6-21	A,B	1	EPA 624								32		✓					✓			✓								
22	A-C	1	EPA 624								3		✓					✓			✓								
			Bottle Totals					5	1		35																		

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 7-28-09

Form # F004r20 revised 05/05/2009

1093689

SGS

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
23,24	A	1	CN							2						✓										✓			
25,26	A	1	Filter					2							✓					✓									
	B		TOTAL METALS					2							✓							✓							
27,28	A	1	Diss Metals									2			✓							✓							
29,30	A,B	1	EPA 625			4							✓																Ascorbic Acid
31,32	A,B	1	8280 For TCDD			4							✓																Ascorbic Acid
33,34	A,B	1	Oil & Grease			4							✓							✓									
35,36	A,B	1	PEST EPA 614			~~4~~ 4							✓																Ascorbic Acid
	~~C,D~~		~~EPA VOCs~~			~~4~~							✓																Ascorbic Acid
			Bottle Totals																										

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 7-28-09

Form # F004r20 revised 05/05/2009

SGS

1093689

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
37,38	A,B	1	Pest Miner ~~8082~~			4							✓																Ascorbic Acid
PAT 7/28/09	C-D		8082			4							✓																✓
39	A	2	~~EXTRA VOLUME~~ 8260		✓								✓					✓						✓					
40	A-C	1	EMA 624		✓						3		✓					✓			✓								
41	A-B	1	COMPOSITE								2							✓			✓								
42	A-B		COMPOSITE								2							✓			✓								
			Bottle Totals			4					~~3~~ 7																		

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 7-28-09

Form # F004r20 revised 05/05/2009

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093716

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	8/13/2009	8:02
Workorder	1093716	516.01			

Sample ID	**Client Sample ID**

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

913243 **MS** **WTF Effluent(1093751001MS)**

200.8 - MS recovery for calcium is outside of acceptance criteria. Sample concentration is 4x greater than the spike amount.

913255 **MB** **MB for HBN 217854 [MXX/21997]**

200.8 - Zinc was detected in the method blank greater than the PQL.

913257 **MS** **MOA09MET009 EFF(1093689028MS)**

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

913968 **BND** **V09-183-07(1093779003BND)**

7470A - MS recovery for mercury was outside of acceptance criteria. Post digestion spike was unsuccessful. Sample result was determined by MSA.

913969 **MS** **V09-183-07(1093779003MS)**

7470A - MS recovery for mercury was outside of acceptance criteria. Post digestion spike was unsuccessful. Sample result was determined by MSA.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093716	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	August 13, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

Detectable Results Summary

Print Date: 8/13/2009 8:02 am

Client Sample ID: **MOA09MET011 INF**
SGS Ref. #: 1093716001

Metals by ICP/MS

Parameter	Result	Units
Chromium	2.81	ug/L
Copper	65.6	ug/L
Lead	5.42	ug/L
Molybdenum	10.6	ug/L
Nickel	4.45	ug/L
Silver	1.12	ug/L
Zinc	164	ug/L

Client Sample ID: **MOA09MET012 EFF**
SGS Ref. #: 1093716002

Metals by ICP/MS

Parameter	Result	Units
Copper	45.9	ug/L
Lead	2.14	ug/L
Molybdenum	10.7	ug/L
Nickel	3.09	ug/L
Zinc	106	ug/L

Client Sample ID: **MOA09MET011 INF**
SGS Ref. #: 1093716003

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.575	ug/L
Molybdenum	10.0	ug/L
Nickel	2.44	ug/L
Zinc	23.6	ug/L
Copper	20.9	ug/L

Client Sample ID: **MOA09MET012 EFF**
SGS Ref. #: 1093716004

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.692	ug/L
Molybdenum	11.2	ug/L
Nickel	2.60	ug/L
Zinc	66.0	ug/L
Copper	28.9	ug/L

Client Sample ID: **MOA09TCN018 EFF**
SGS Ref. #: 1093716006

Waters Department

Parameter	Result	Units
Cyanide	0.012	mg/L

SGS Ref.#	1093716001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09MET011 INF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/04/09	08/04/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	2.81	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	65.6	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	5.42	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	10.6	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	4.45	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	1.12	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	164	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093716002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09MET012 EFF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/04/09	08/04/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	45.9	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	2.14	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	10.7	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	3.09	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	106	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093716003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09MET011 INF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.575	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	10.0	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.44	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	23.6	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	20.9	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093716004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09MET012 EFF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.692	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	11.2	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.60	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	66.0	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	28.9	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093716005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09TCN017 INF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	08/03/09	08/04/09	ACF

SGS Ref.#	1093716006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:02
Project Name/#	516.01	**Collected Date/Time**	07/29/2009 10:00
Client Sample ID	MOA09TCN018 EFF	**Received Date/Time**	07/29/2009 13:50
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	0.012	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	08/03/09	08/04/09	ACF

SGS Ref.#	913165	Method Blank	**Printed Date/Time**		08/13/2009 8:02
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21993
Project Name/#	516.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093716001, 1093716002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	08/04/09
Batch	MCV4264				
Method	EP245.1				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	913239	Method Blank	**Printed Date/Time**	08/13/2009	8:02
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21995
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093716001, 1093716002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	08/06/09
Arsenic	ND	5.00	2.50	ug/L	08/06/09
Beryllium	ND	0.400	0.130	ug/L	08/06/09
Cadmium	ND	0.500	0.150	ug/L	08/06/09
Chromium	ND	2.00	0.620	ug/L	08/06/09
Copper	ND	1.00	0.310	ug/L	08/06/09
Lead	ND	0.200	0.0620	ug/L	08/06/09
Molybdenum	ND	10.0	3.10	ug/L	08/06/09
Nickel	ND	2.00	0.620	ug/L	08/06/09
Selenium	ND	5.00	1.50	ug/L	08/06/09
Silver	ND	1.00	0.310	ug/L	08/06/09
Thallium	ND	1.00	0.310	ug/L	08/06/09
Zinc	ND	5.00	2.50	ug/L	08/06/09

Batch	MMS6010
Method	EP200.8
Instrument	Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913255	Method Blank	**Printed Date/Time**	08/13/2009	8:02
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21997
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	08/06/09
Arsenic	ND	5.00	2.50	ug/L	08/06/09
Beryllium	0.173 J	0.400	0.130	ug/L	08/06/09
Cadmium	ND	0.500	0.150	ug/L	08/06/09
Chromium	ND	2.00	0.620	ug/L	08/06/09
Copper	ND	1.00	0.310	ug/L	08/06/09
Lead	ND	0.200	0.0620	ug/L	08/06/09
Molybdenum	ND	10.0	3.10	ug/L	08/06/09
Nickel	ND	2.00	0.620	ug/L	08/06/09
Selenium	ND	5.00	1.50	ug/L	08/06/09
Silver	ND	1.00	0.310	ug/L	08/06/09
Thallium	ND	1.00	0.310	ug/L	08/06/09
Zinc	9.24	* 5.00	2.50	ug/L	08/06/09

Batch MMS6017

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913291	Method Blank	**Printed Date/Time**		08/13/2009 8:02
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7370
Project Name/#	516.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	08/03/2009

QC results affect the following production samples:

1093716005, 1093716006

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	ND	0.0050	0.0015	mg/L	08/04/09
Batch	WDA1697				
Method	SM20 4500-CN C,E				
Instrument	Konelab				

SGS Ref.#	913966	Method Blank	**Printed Date/Time**		08/13/2009 8:02
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX22013
Project Name/#	516.01			**Method**	METHOD
Matrix	Water (Surface, Eff., Ground)			**Date**	08/05/2009

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	08/06/09
Batch	MCV4268				
Method	EP245.1				
Instrument	PSA Millennium mercury AA				

SGS Ref.#	913294	Duplicate	**Printed Date/Time**		08/13/2009 8:03
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7370
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1093737006			**Date**	8/3/2009 8:30:00AM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716005, 1093716006

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	0.0046	mg/L	0	(< 25)	08/04/2009

Batch	WDA1697
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	913166	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	MXX21993	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716001, 1093716002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.19	105	(85-115)			4 ug/L	08/04/2009

Batch MCV4264
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913240	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	MXX21995	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716001, 1093716002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	961	96	(85-115)			1000 ug/L	08/06/2009
Arsenic	LCS	956	96	(85-115)			1000 ug/L	08/06/2009
Beryllium	LCS	108	108	(85-115)			100 ug/L	08/06/2009
Cadmium	LCS	101	101	(85-115)			100 ug/L	08/06/2009
Chromium	LCS	386	96	(85-115)			400 ug/L	08/06/2009
Copper	LCS	967	97	(85-115)			1000 ug/L	08/06/2009
Lead	LCS	924	92	(85-115)			1000 ug/L	08/06/2009
Molybdenum	LCS	367	92	(85-115)			400 ug/L	08/06/2009
Nickel	LCS	933	93	(85-115)			1000 ug/L	08/06/2009
Selenium	LCS	948	95	(85-115)			1000 ug/L	08/06/2009
Silver	LCS	97.4	97	(85-115)			100 ug/L	08/06/2009
Thallium	LCS	9.89	99	(85-115)			10 ug/L	08/06/2009
Zinc	LCS	968	97	(85-115)			1000 ug/L	08/06/2009

Batch MMS6010
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913256	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	MXX21997	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	981	98	(85-115)			1000 ug/L	08/06/2009
Arsenic	LCS	958	96	(85-115)			1000 ug/L	08/06/2009
Beryllium	LCS	111	111	(85-115)			100 ug/L	08/06/2009
Cadmium	LCS	100	100	(85-115)			100 ug/L	08/06/2009
Chromium	LCS	392	98	(85-115)			400 ug/L	08/06/2009
Copper	LCS	954	95	(85-115)			1000 ug/L	08/06/2009
Lead	LCS	890	89	(85-115)			1000 ug/L	08/06/2009
Molybdenum	LCS	373	93	(85-115)			400 ug/L	08/06/2009
Nickel	LCS	939	94	(85-115)			1000 ug/L	08/06/2009
Selenium	LCS	941	94	(85-115)			1000 ug/L	08/06/2009
Silver	LCS	94.5	95	(85-115)			100 ug/L	08/06/2009
Thallium	LCS	9.12	91	(85-115)			10 ug/L	08/06/2009
Zinc	LCS	1130	113	(85-115)			1000 ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913292	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:03
	913293	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7370	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.01		**Date**	08/03/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716005, 1093716006

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.048	97	(75-125)			0.05 mg/L	08/04/2009
	LCSD	0.050	99		2	(< 25)	0.05 mg/L	08/04/2009

Batch WDA1697
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	913967	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	MXX22013	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	08/05/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.38	109	(85-115)			4 ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913167	Matrix Spike	**Printed Date/Time**		08/13/2009 8:03
			Prep	**Batch**	MXX21993
				Method	Digestion Mercury (W)
				Date	08/04/2009
Original	1093677001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716001, 1093716002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	8.62	108	(85-115)			8.00	ug/L	08/04/2009

Batch MCV4264
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913170	Matrix Spike	**Printed Date/Time**		08/13/2009 8:03
	913171	Matrix Spike Duplicate	**Prep**	**Batch**	MXX21993
				Method	Digestion Mercury (W)
				Date	08/04/2009
Original	1093616003				
Matrix	Soil/Solid (dry weight)				

QC results affect the following production samples:

1093716001, 1093716002

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	75.4	93	(85-115)			81.3	ug/L	08/04/2009
		MSD		76.6	94		2	(< 15)	81.3	ug/L	08/04/2009

Batch	MCV4264
Method	EP245.1
Instrument	PSA Millennium mercury AA

SGS Ref.#	913243	Matrix Spike	**Printed Date/Time**		08/13/2009 8:03
			Prep	**Batch**	MXX21995
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093751001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716001, 1093716002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	15.2	1010	100	(70-130)			1000	ug/L	08/06/2009
Arsenic	MS	ND	996	100	(70-130)			1000	ug/L	08/06/2009
Beryllium	MS	ND	106	106	(70-130)			100	ug/L	08/06/2009
Cadmium	MS	ND	102	102	(70-130)			100	ug/L	08/06/2009
Chromium	MS	ND	401	100	(70-130)			400	ug/L	08/06/2009
Copper	MS	7.90	964	96	(70-130)			1000	ug/L	08/06/2009
Lead	MS	0.390	905	90	(70-130)			1000	ug/L	08/06/2009
Molybdenum	MS	ND	399	100	(70-130)			400	ug/L	08/06/2009
Nickel	MS	13.3	960	95	(70-130)			1000	ug/L	08/06/2009
Selenium	MS	ND	998	100	(70-130)			1000	ug/L	08/06/2009
Silver	MS	ND	97.3	97	(70-130)			100	ug/L	08/06/2009
Thallium	MS	ND	9.54	95	(70-130)			10.0	ug/L	08/06/2009
Zinc	MS	9.26	971	96	(70-130)			1000	ug/L	08/06/2009

Batch MMS6010
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913257	Matrix Spike	**Printed Date/Time**		08/13/2009 8:03
			Prep	**Batch**	MXX21997
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	ND	1040	104	(70-130)			1000	ug/L	08/06/2009
Arsenic	MS	ND	1020	102	(70-130)			1000	ug/L	08/06/2009
Beryllium	MS	ND	113	113	(70-130)			100	ug/L	08/06/2009
Cadmium	MS	ND	106	106	(70-130)			100	ug/L	08/06/2009
Chromium	MS	ND	412	103	(70-130)			400	ug/L	08/06/2009
Copper	MS	26.8	1050	102	(70-130)			1000	ug/L	08/06/2009
Lead	MS	0.917	913	91	(70-130)			1000	ug/L	08/06/2009
Molybdenum	MS	ND	385	96	(70-130)			400	ug/L	08/06/2009
Nickel	MS	2.77	990	99	(70-130)			1000	ug/L	08/06/2009
Selenium	MS	ND	994	99	(70-130)			1000	ug/L	08/06/2009
Silver	MS	ND	38.3	38*	(70-130)			100	ug/L	08/06/2009
Thallium	MS	ND	9.26	93	(70-130)			10.0	ug/L	08/06/2009
Zinc	MS	58.4	1270	122	(70-130)			1000	ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913258	Bench Spike DIGESTED	**Printed Date/Time**		08/13/2009 8:03
			Prep	**Batch**	MXX21997
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Silver	BND	ND	30.5	98	(70-130)			31.3	ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913295	Matrix Spike	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	WXX7370	
			Method	Cyanide Distillation Kone Lab	
			Date	08/03/2009	
Original	1093737006				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716005, 1093716006

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.043	87	(75-125)			0.050	mg/L	08/04/2009

Batch WDA1697
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	913968	Bench Spike DIGESTED	**Printed Date/Time**		08/13/2009 8:03
			Prep	**Batch**	MXX22013
				Method	Digestion Mercury (W)
				Date	08/05/2009
Original	1093779003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	ND	9.29	116*	(85-115)			8.00	ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913969	Matrix Spike	**Printed Date/Time**	08/13/2009	8:03
			Prep **Batch**	MXX22013	
			Method	Digestion Mercury (W)	
			Date	08/05/2009	
Original	1093779003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	5.1	64*	(85-115)			8.00	ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913972	Matrix Spike	**Printed Date/Time**		08/13/2009 8:03
	913973	Matrix Spike Duplicate	**Prep**	**Batch**	MXX22013
				Method	Digestion Mercury (W)
				Date	08/05/2009
Original	1093986001				
Matrix	Solid/Soil (Wet Weight)				

QC results affect the following production samples:

1093716003, 1093716004

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	78.4	98	(85-115)			80.0	ug/L	08/06/2009
		MSD		77.1	96		2	(< 15)	80.0	ug/L	08/06/2009

Batch	MCV4268
Method	EP245.1
Instrument	PSA Millennium mercury AA

1093716

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MET011	Influent	1	7/29	1000		①,② A,B ③ A
MOA09MET012	Effluent	1	7/29	1000		② A,B ④ A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/29/9	1030	[signature]	[signature]	7/29 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	1:50 7/29/09	[signature]		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7-29-09 1350

SAMPLED BY (NAME/SIGNATURE): _____

#7d TB = 0.3

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

1093716

LABORATORY:	FROM:
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09-1011	KLI Proj. #: 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	Preservative: NaOH, 4°C Effluent samples contain L- Ascorbic Acid	Type of Container: 60 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN017	Influent	1	7/29 ~~7/28/9~~	~~0910~~		5 A
MOA09TCN018	Effluent	1	7/29 ~~7/28/9~~	~~0902~~		6 A
			7/29/9	1000		
			7/29/9	1000		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
7/29/9	1030	hand		7/29 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
7/29/09	1:50pm			
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				7-29-09/1350

#7d TB= 0.3

SGS

1093716

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**_____
		✓	Payment received: $_____ by Check or Credit Card
	✓		Will courier charges apply?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): Standard -or- Rush

Received Date: 7-29-09

Received Time: 1350

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	0.3 °C	7d
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: (√ *if applicable*)
_____Extra Sample Volume?
_____Limited Sample Volume?
_____Multi-Incremental Samples?
_____Lab-filtered for dissolved_____
_____Ref Lab required for_____
_____Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? #/where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes: SAMPLES FOR METALS ANALYSIS RECEIVED UNPRESERVED, SAMPLES SPLIT INTO UNPRESERVED AND PRESERVED CONTAINERS, UNPRESERVED CONTAINER FILTERED FOR DISS METALS.

Completed by (sign): _____ **(print):** JAMES DOUGHTY

Login proof: Self-check completed _____ **Peer-reviewer's Initials** _____

Form # F004r20 revised 05/05/2009

SGS

1093716

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

						Container Volume							Container Type							Preservative									
#	Container ID	Matrix	Test	QC	TB	1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1,2	A	1	TOTAL METALS					2							✓							✓							
	B		FILTER					2							✓					✓									
3,4	A	1	DISS METALS									2?			✓							✓							
5,6	A	1	CN							2						✓										✓			
			Bottle Totals					4		2		2																	

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 7-29-09

Form # F004r20 revised 05/05/2009

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

Project:	516.01
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093737

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	8/13/2009	8:03
Workorder	1093737	516.01			

Sample ID	**Client Sample ID**

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

913243 **MS** **WTF Effluent(1093751001MS)**

200.8 - MS recovery for calcium is outside of acceptance criteria. Sample concentration is 4x greater than the spike amount.

913255 **MB** **MB for HBN 217854 [MXX/21997]**

200.8 - Zinc was detected in the method blank greater than the PQL.

913257 **MS** **MOA09MET009 EFF(1093689028MS)**

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

913968 **BND** **V09-183-07(1093779003BND)**

7470A - MS recovery for mercury was outside of acceptance criteria. Post digestion spike was unsuccessful. Sample result was determined by MSA.

913969 **MS** **V09-183-07(1093779003MS)**

7470A - MS recovery for mercury was outside of acceptance criteria. Post digestion spike was unsuccessful. Sample result was determined by MSA.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093737	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	August 13, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

Detectable Results Summary

Print Date: 8/13/2009 8:03 am

Client Sample ID: **MOA09MET013 INF**
SGS Ref. #: 1093737001

Metals by ICP/MS

Parameter	Result	Units
Chromium	2.65	ug/L
Copper	73.9	ug/L
Lead	3.58	ug/L
Molybdenum	12.2	ug/L
Nickel	4.14	ug/L
Silver	1.26	ug/L
Zinc	165	ug/L

Client Sample ID: **MOA09MET014 EFF**
SGS Ref. #: 1093737002

Metals by ICP/MS

Parameter	Result	Units
Copper	47.7	ug/L
Lead	1.98	ug/L
Molybdenum	12.5	ug/L
Nickel	2.89	ug/L
Zinc	110	ug/L

Client Sample ID: **MOA09MET013 INF**
SGS Ref. #: 1093737003

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.537	ug/L
Molybdenum	13.0	ug/L
Nickel	2.59	ug/L
Zinc	32.8	ug/L
Copper	24.6	ug/L

Client Sample ID: **MOA09MET014 EFF**
SGS Ref. #: 1093737004

Dissolved Metals by ICP/MS

Parameter	Result	Units
Lead	0.749	ug/L
Molybdenum	12.3	ug/L
Nickel	2.51	ug/L
Zinc	64.8	ug/L
Copper	30.3	ug/L

SGS Ref.#	1093737001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:15
Client Sample ID	MOA09MET013 INF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	2.65	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	73.9	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	3.58	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	12.2	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	4.14	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	1.26	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	165	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093737002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:25
Client Sample ID	MOA09MET014 EFF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	47.7	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	1.98	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	12.5	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.89	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	110	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093737003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:15
Client Sample ID	MOA09MET013 INF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.537	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	13.0	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.59	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	32.8	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	24.6	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093737004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:25
Client Sample ID	MOA09MET014 EFF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Metals Department									
Mercury	ND	0.200	ug/L	EP245.1	A		08/05/09	08/06/09	KAR
Dissolved Metals by ICP/MS									
Antimony	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Arsenic	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Beryllium	ND	0.400	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Cadmium	ND	0.500	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Chromium	ND	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Lead	0.749	0.200	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Molybdenum	12.3	10.0	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Nickel	2.51	2.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Selenium	ND	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Silver	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Thallium	ND	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Zinc	64.8	5.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB
Copper	30.3	1.00	ug/L	EP200.8	A		08/04/09	08/06/09	NRB

SGS Ref.#	1093737005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:15
Client Sample ID	MOA09TCN019 INF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	08/03/09	08/04/09	ACF

SGS Ref.#	1093737006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	08/13/2009 8:03
Project Name/#	516.01	**Collected Date/Time**	07/30/2009 10:25
Client Sample ID	MOA09TCN020 EFF	**Received Date/Time**	07/30/2009 13:05
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Cyanide	ND	0.0050	mg/L	SM20 4500-CN C,E	A	(<0.2)	08/03/09	08/04/09	ACF

SGS Ref.#	913239	Method Blank	**Printed Date/Time**	08/13/2009	8:04
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21995
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093737001, 1093737002

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	08/06/09
Arsenic	ND	5.00	2.50	ug/L	08/06/09
Beryllium	ND	0.400	0.130	ug/L	08/06/09
Cadmium	ND	0.500	0.150	ug/L	08/06/09
Chromium	ND	2.00	0.620	ug/L	08/06/09
Copper	ND	1.00	0.310	ug/L	08/06/09
Lead	ND	0.200	0.0620	ug/L	08/06/09
Molybdenum	ND	10.0	3.10	ug/L	08/06/09
Nickel	ND	2.00	0.620	ug/L	08/06/09
Selenium	ND	5.00	1.50	ug/L	08/06/09
Silver	ND	1.00	0.310	ug/L	08/06/09
Thallium	ND	1.00	0.310	ug/L	08/06/09
Zinc	ND	5.00	2.50	ug/L	08/06/09

Batch MMS6010

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913255	Method Blank	**Printed Date/Time**	08/13/2009	8:04
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	MXX21997
Project Name/#	516.01			**Method**	E200.2
Matrix	Water (Surface, Eff., Ground)			**Date**	08/04/2009

QC results affect the following production samples:

1093737003, 1093737004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals by ICP/MS					
Antimony	ND	1.00	0.310	ug/L	08/06/09
Arsenic	ND	5.00	2.50	ug/L	08/06/09
Beryllium	0.173 J	0.400	0.130	ug/L	08/06/09
Cadmium	ND	0.500	0.150	ug/L	08/06/09
Chromium	ND	2.00	0.620	ug/L	08/06/09
Copper	ND	1.00	0.310	ug/L	08/06/09
Lead	ND	0.200	0.0620	ug/L	08/06/09
Molybdenum	ND	10.0	3.10	ug/L	08/06/09
Nickel	ND	2.00	0.620	ug/L	08/06/09
Selenium	ND	5.00	1.50	ug/L	08/06/09
Silver	ND	1.00	0.310	ug/L	08/06/09
Thallium	ND	1.00	0.310	ug/L	08/06/09
Zinc	9.24	* 5.00	2.50	ug/L	08/06/09

Batch MMS6017

Method EP200.8

Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913291	Method Blank	**Printed Date/Time**		08/13/2009 8:04
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7370
Project Name/#	516.01			**Method**	EXT/CN4500
Matrix	Water (Surface, Eff., Ground)			**Date**	08/03/2009

QC results affect the following production samples:

1093737005, 1093737006

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Cyanide	ND	0.0050	0.0015	mg/L	08/04/09
Batch WDA1697					
Method SM20 4500-CN C,E					
Instrument Konelab					

SGS Ref.#	913966	Method Blank	**Printed Date/Time**	08/13/2009	8:04
Client Name	Kinnetic Laboratories, Inc.		**Prep** **Batch**	MXX22013	
Project Name/#	516.01		**Method**	METHOD	
Matrix	Water (Surface, Eff., Ground)		**Date**	08/05/2009	

QC results affect the following production samples:

1093737001, 1093737002, 1093737003, 1093737004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Metals Department					
Mercury	ND	0.200	0.0620	ug/L	08/06/09

Batch MCV4268

Method EP245.1

Instrument PSA Millennium mercury AA

SGS Ref.#	913294	Duplicate	**Printed Date/Time**		08/13/2009 8:04
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	WXX7370
Project Name/#	516.01			**Method**	EXT/CN4500
Original	1093737006			**Date**	8/3/2009 8:30:00AM
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737005, 1093737006

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Cyanide	ND	0.0046	mg/L	0	(< 25)	08/04/2009

Batch	WDA1697
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	913240	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:04
			Prep **Batch**	MXX21995	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737001, 1093737002

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	961	96	(85-115)			1000 ug/L	08/06/2009
Arsenic	LCS	956	96	(85-115)			1000 ug/L	08/06/2009
Beryllium	LCS	108	108	(85-115)			100 ug/L	08/06/2009
Cadmium	LCS	101	101	(85-115)			100 ug/L	08/06/2009
Chromium	LCS	386	96	(85-115)			400 ug/L	08/06/2009
Copper	LCS	967	97	(85-115)			1000 ug/L	08/06/2009
Lead	LCS	924	92	(85-115)			1000 ug/L	08/06/2009
Molybdenum	LCS	367	92	(85-115)			400 ug/L	08/06/2009
Nickel	LCS	933	93	(85-115)			1000 ug/L	08/06/2009
Selenium	LCS	948	95	(85-115)			1000 ug/L	08/06/2009
Silver	LCS	97.4	97	(85-115)			100 ug/L	08/06/2009
Thallium	LCS	9.89	99	(85-115)			10 ug/L	08/06/2009
Zinc	LCS	968	97	(85-115)			1000 ug/L	08/06/2009

Batch MMS6010
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913256	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:04
			Prep **Batch**	MXX21997	
Client Name	Kinnetic Laboratories, Inc.		**Method**	E200.2	
Project Name/#	516.01		**Date**	08/04/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737003, 1093737004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals by ICP/MS								
Antimony	LCS	981	98	(85-115)			1000 ug/L	08/06/2009
Arsenic	LCS	958	96	(85-115)			1000 ug/L	08/06/2009
Beryllium	LCS	111	111	(85-115)			100 ug/L	08/06/2009
Cadmium	LCS	100	100	(85-115)			100 ug/L	08/06/2009
Chromium	LCS	392	98	(85-115)			400 ug/L	08/06/2009
Copper	LCS	954	95	(85-115)			1000 ug/L	08/06/2009
Lead	LCS	890	89	(85-115)			1000 ug/L	08/06/2009
Molybdenum	LCS	373	93	(85-115)			400 ug/L	08/06/2009
Nickel	LCS	939	94	(85-115)			1000 ug/L	08/06/2009
Selenium	LCS	941	94	(85-115)			1000 ug/L	08/06/2009
Silver	LCS	94.5	95	(85-115)			100 ug/L	08/06/2009
Thallium	LCS	9.12	91	(85-115)			10 ug/L	08/06/2009
Zinc	LCS	1130	113	(85-115)			1000 ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913292	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:04
	913293	Lab Control Sample Duplicate	**Prep** **Batch**	WXX7370	
Client Name	Kinnetic Laboratories, Inc.		**Method**	EXT/CN4500	
Project Name/#	516.01		**Date**	08/03/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737005, 1093737006

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Cyanide	LCS	0.048	97	(75-125)			0.05 mg/L	08/04/2009
	LCSD	0.050	99		2	(< 25)	0.05 mg/L	08/04/2009

Batch WDA1697
Method SM20 4500-CN C,E
Instrument Konelab

SGS Ref.#	913967	Lab Control Sample	**Printed Date/Time**	08/13/2009	8:04
			Prep **Batch**	MXX22013	
Client Name	Kinnetic Laboratories, Inc.		**Method**	METHOD	
Project Name/#	516.01		**Date**	08/05/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737001, 1093737002, 1093737003, 1093737004

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Metals Department								
Mercury	LCS	4.38	109	(85-115)			4 ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913243	Matrix Spike	**Printed Date/Time**		08/13/2009 8:04
			Prep	**Batch**	MXX21995
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093751001				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737001, 1093737002

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	15.2	1010	100	(70-130)			1000	ug/L	08/06/2009
Arsenic	MS	ND	996	100	(70-130)			1000	ug/L	08/06/2009
Beryllium	MS	ND	106	106	(70-130)			100	ug/L	08/06/2009
Cadmium	MS	ND	102	102	(70-130)			100	ug/L	08/06/2009
Chromium	MS	ND	401	100	(70-130)			400	ug/L	08/06/2009
Copper	MS	7.90	964	96	(70-130)			1000	ug/L	08/06/2009
Lead	MS	0.390	905	90	(70-130)			1000	ug/L	08/06/2009
Molybdenum	MS	ND	399	100	(70-130)			400	ug/L	08/06/2009
Nickel	MS	13.3	960	95	(70-130)			1000	ug/L	08/06/2009
Selenium	MS	ND	998	100	(70-130)			1000	ug/L	08/06/2009
Silver	MS	ND	97.3	97	(70-130)			100	ug/L	08/06/2009
Thallium	MS	ND	9.54	95	(70-130)			10.0	ug/L	08/06/2009
Zinc	MS	9.26	971	96	(70-130)			1000	ug/L	08/06/2009

Batch MMS6010
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913257	Matrix Spike	**Printed Date/Time**	08/13/2009	8:04
			Prep **Batch**	MXX21997	
			Method	DW Digest for Metals on ICP-M	
			Date	08/04/2009	
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737003, 1093737004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Antimony	MS	ND	1040	104	(70-130)			1000	ug/L	08/06/2009
Arsenic	MS	ND	1020	102	(70-130)			1000	ug/L	08/06/2009
Beryllium	MS	ND	113	113	(70-130)			100	ug/L	08/06/2009
Cadmium	MS	ND	106	106	(70-130)			100	ug/L	08/06/2009
Chromium	MS	ND	412	103	(70-130)			400	ug/L	08/06/2009
Copper	MS	26.8	1050	102	(70-130)			1000	ug/L	08/06/2009
Lead	MS	0.917	913	91	(70-130)			1000	ug/L	08/06/2009
Molybdenum	MS	ND	385	96	(70-130)			400	ug/L	08/06/2009
Nickel	MS	2.77	990	99	(70-130)			1000	ug/L	08/06/2009
Selenium	MS	ND	994	99	(70-130)			1000	ug/L	08/06/2009
Silver	MS	ND	38.3	38*	(70-130)			100	ug/L	08/06/2009
Thallium	MS	ND	9.26	93	(70-130)			10.0	ug/L	08/06/2009
Zinc	MS	58.4	1270	122	(70-130)			1000	ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913258	Bench Spike DIGESTED	**Printed Date/Time**		08/13/2009 8:04
			Prep	**Batch**	MXX21997
				Method	DW Digest for Metals on ICP-M
				Date	08/04/2009
Original	1093689028				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737003, 1093737004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals by ICP/MS										
Silver	BND	ND	30.5	98	(70-130)			31.3	ug/L	08/06/2009

Batch MMS6017
Method EP200.8
Instrument Perkin Elmer Sciex ICP-MS P3

SGS Ref.#	913295	Matrix Spike	**Printed Date/Time**	08/13/2009	8:04
			Prep **Batch**	WXX7370	
			Method	Cyanide Distillation Kone Lab	
			Date	08/03/2009	
Original	1093737006				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737005, 1093737006

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Waters Department										
Cyanide	MS	ND	.043	87	(75-125)			0.050	mg/L	08/04/2009

Batch	WDA1697
Method	SM20 4500-CN C,E
Instrument	Konelab

SGS Ref.#	913968	Bench Spike DIGESTED	**Printed Date/Time**		08/13/2009 8:04
			Prep	**Batch**	MXX22013
				Method	Digestion Mercury (W)
				Date	08/05/2009
Original	1093779003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737001, 1093737002, 1093737003, 1093737004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	BND	ND	9.29	116*	(85-115)			8.00	ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913969	Matrix Spike	**Printed Date/Time**		08/13/2009 8:04
			Prep	**Batch**	MXX22013
				Method	Digestion Mercury (W)
				Date	08/05/2009
Original	1093779003				
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093737001, 1093737002, 1093737003, 1093737004

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department										
Mercury	MS	ND	5.1	64*	(85-115)			8.00	ug/L	08/06/2009

Batch MCV4268
Method EP245.1
Instrument PSA Millennium mercury AA

SGS Ref.#	913972	Matrix Spike	**Printed Date/Time**		08/13/2009 8:04
	913973	Matrix Spike Duplicate	**Prep**	**Batch**	MXX22013
				Method	Digestion Mercury (W)
				Date	08/05/2009
Original	1093986001				
Matrix	Solid/Soil (Wet Weight)				

QC results affect the following production samples:

1093737001, 1093737002, 1093737003, 1093737004

Parameter	Qualifiers		Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount		Analysis Date
Metals Department											
Mercury		MS	ND	78.4	98	(85-115)			80.0	ug/L	08/06/2009
		MSD		77.1	96		2	(< 15)	80.0	ug/L	08/06/2009

Batch	MCV4268
Method	EP245.1
Instrument	PSA Millennium mercury AA

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093737

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1011	**KLI Proj. #:** 516.01

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:** None, 4°C	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
✓ MOA09MET013	Influent	1	7/30/9	1015		①A,B ③A
✓ MOA09MET014	Effluent	1	7/30/9	1025		②A,B ④A

Please split samples for separate total and dissolved metals analysis.
Please filter and then preserve samples with HNO_3 upon receipt at laboratory.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature] 7/30/9	1240	hand	[signature]	7/30/09 1230
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/30/09 1305	hand	[signature] Joe Rud	7/30/09 1305

SAMPLED BY (NAME/SIGNATURE): _____

700 TB= 5.8

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\Wet_PretreatmentMetals_water09COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1093737

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09-1011	KLI Proj. #: 516.01

ANALYSIS TYPE: Total Cyanide (SM 4500-CN E Mod)

MATRIX: Water	Preservative: NaOH, 4°C Effluent samples contain L- Ascorbic Acid	Type of Container: 60 ml HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN019	Influent	1	~~7/28/9~~	~~0910~~		5 A
MOA09TCN020	Effluent	1	~~7/28/9~~	~~0900~~		6 A
			7/30/9	1015		
			7/30/9	1025		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/30/9 1240	hand	[signature]	7/30/09 1230
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/30/09 1305	hand	[signature] Joe Rust	7/30/09 1305

1093737

SGS

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
	✓		Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
		✓	If this is for PWS, provide **PWSID:**_____
		✓	Payment received: $_____ by Check or Credit Card
	✓		Will courier charges apply?
✓			Data package required? (Level: 1 / 2 / 3 / 4)
	✓	✓	Is this a DoD project? (USACE, Navy, AFCEE)

Notes: _____

TAT (circle one): Standard -or- Rush

Received Date: 7-30-09

Received Time: 1305

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	5.8 °C	70d
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: (√ *if applicable*)
_____Extra Sample Volume?
_____Limited Sample Volume?
_____Multi-Incremental Samples?
_____Lab-filtered for dissolved_____
_____Ref Lab required for_____
_____Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? #/ where:
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify):
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail (*circle one*)

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes: SAMPLES FOR METALS ANALYSIS WERE SPLIT INTO TWO CONTAINERS; ONE WITH HNO_3 For Total and One Unpreserved to Be Filtered For Diss Metals.

Completed by (sign): _____ **(print):** JAMES DOUGHTY

Login proof: Self-check completed _____ **Peer-reviewer's Initials** _____

SGS

1093737

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	Container Type: AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1,2	A	1	TOTAL METALS					2							✓							✓							
	B		Filter					2							✓					✓									
3,4	A	1	DISS METALS									2?			✓							✓							
5,6	A	1	TOTAL CN							2						✓										✓			
			Bottle Totals					4		2		2																	

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: [signature] Date: 7-30-09

Form # F004r20 revised 05/05/2009

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, July Sampling

B2 Asbestos

Solar Environmental Services, Inc. and IATL Analytical, Inc.

JULY SAMPLING, ASBESTOS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09ASB004	INFLUENT	SAMPLE
MOA09ASB005	EFFLUENT	SAMPLE
MOA09ASB006	SLUDGE	SAMPLE

IATL International Asbestos Testing Laboratories

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Solar Environmental Services
7401 Meadow Street
Anchorage AK 99507

Report Date: 8/15/2009
Project: Kinnetic-516.01
Project No.: 516.01

TEM WATER SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location	Total Asbestos Concentration	Asbestos Concentration Fibers > 10 Microns	Asbestos Types
3699462	MOA09ASB004	Sampled-7/28/09 9:00 Analyzed-8/15/09 Wastewater	<24.70 Million Fibers/Liter	<24.70 Million Fibers/Liter	None Detected
3699463	MOA09ASB005	Sampled-7/28/09 9:00 Analyzed-8/15/09 Wastewater	<12.30 Million Fibers/Liter	<12.30 Million Fibers/Liter	None Detected

Note: Sample turbidity >1.0 NTU. Therefore MDL >> 0.1 MFL. Does not meet drinking water requirements.

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: J. Silcox

Approved By:

Date: 8/15/2009

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.
ATTN: Gary Lawley
1102 W. 7th Ave
Anchorage, Alaska 99501

CLIENT ORDER #: 194019
PROJECT NAME: 516.01
PROJECT #: 516.01
REPORT #: B2009-56
REPORT DATE: September 10, 2009
COLLECTED BY: Client
DATE SAMPLED: July 28, 2009
DATE RECEIVED: July 28, 2009
DATE ANALYZED: September 10, 2009
ANALYZED BY: Joshua T.

BULK ASBESTOS ANALYSIS REPORT

POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB. #	CLIENT#	DESCRIPTION/ LOCATION/ COLOR	% ASBESTOS PRESENT	% OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
2007531BO108	MOA09ASB006	Sludge (Black)	None Detected	80-85% Cellulose	15-20%

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: 09/24/09

FORM# SES 1008 REVISED 6/17/98

AIHA – AAR – PAT Certified

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, July Sampling

B3 Enterococci

Spectra Laboratories

JULY SAMPLING, ENTEROCOCCI

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09ENT003	EFFLUENT REP-1	SAMPLE
MOA09ENT004	EFFLUENT REP-2	SAMPLE

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

08/03/2009

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

P.O.#: AK09-1012
Project: 516.01
Sample Matrix: Water
Date Sampled: 07/28/2009
Date Received: 07/29/2009
Spectra Project: 2009070484

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09ENT003 Rep 1	1	Total Entercocci by MPN	< 2	MPN/100ml	SM 9230B
MOA09ENT003 Rep 2	2	Total Entercocci by MPN	< 2	MPN/100ml	SM 9230B
MOA09ENT004 Rep 1	3	Total Entercocci by MPN	< 2	MPN/100ml	SM 9230B
MOA09ENT004 Rep 2	4	Total Entercocci by MPN	< 2	MPN/100ml	SM 9230B

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a7/snb

2009070484

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SPECTRA Labs 2221 Ross Way Tacoma, WA 98421 (253) 272-4850 Attn: Shiran Brenner	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK09-1012 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: SM 9230B

MATRIX: Water | **Preservative:** 4°C Effluent samples contain $Na_2S_2O_3$ | **Type of Container:** 125-mL Bac-T bottles

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09ENT003	Effluent-1	2	7/28/09	1030		
MOA09ENT004	Effluent-2	2	7/28/09	1030		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	7/28 1300	AK. Air	[signature]	7-29-9 1015
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\MOA09\COCs\WETCOC's (Aug)\ASB_SVLs_PESTs_MET_DXNsWET09COC.wpd

APPENDIX C

Receiving Water Quality Monitoring

C1 Total Suspended Solids and Cyanide

Soil Control Lab, Inc.

RECEIVING WATER, TOTAL CYANIDE AND TOTAL SUSPENDED SOLIDS,

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09TCN001	F1-1S	SAMPLE
MOA09TCN002	F1-2S	SAMPLE
MOA09TCN003	F1-3S	SAMPLE
MOA09TCN004	C1-1S	SAMPLE
MOA09TCN005	C1-2S	SAMPLE
MOA09TCN006	C1-2S	FIELD DUPLICATE
MOA09TCN007	C1-3S	SAMPLE
MOA09TCN008	EFFLUENT	SAMPLE
MOA09TSS001	F1-1S	SAMPLE
MOA09TSS002	F1-2S	SAMPLE
MOA09TSS003	F1-3S	SAMPLE
MOA09TSS004	C1-1S	SAMPLE
MOA09TSS005	C1-2S	SAMPLE
MOA09TSS006	C1-2S	FIELD DUPLICATE
MOA09TSS007	C1-3S	SAMPLE
MOA09TSS008	EFFLUENT	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 03, 2009

RE: None / 516.02
Workorder: 9060808

Dear Gary Lawley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 6/26/2009 10:30:00 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 #: 9060808
Reporting Date: December 3, 2009

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
9060808-01	MOA09TSS001	F1-1S	Water	06/23/09 15:20	06/26/09 10:30
9060808-02	MOA09TSS002	F1-2S	Water	06/23/09 15:55	06/26/09 10:30
9060808-03	MOA09TSS003	F1-3S	Water	06/23/09 16:10	06/26/09 10:30
9060808-04	MOA09TSS004	C1-1S	Water	06/24/09 16:09	06/26/09 10:30
9060808-05	MOA09TSS005	C1-2S	Water	06/24/09 16:48	06/26/09 10:30
9060808-06	MOA09TSS006	C1-2S	Water	06/24/09 16:48	06/26/09 10:30
9060808-07	MOA09TSS007	C1-3S	Water	06/24/09 17:16	06/26/09 10:30
9060808-08	MOA09TSS008	EFFLUENT	Water	06/23/09 07:00	06/26/09 10:30
9060808-09	MOA09TCN001	F1-1S	Water	06/23/09 15:20	06/26/09 10:30
9060808-10	MOA09TCN002	F1-2S	Water	06/23/09 15:55	06/26/09 10:30
9060808-11	MOA09TCN003	F1-3S	Water	06/23/09 16:10	06/26/09 10:30
9060808-12	MOA09TCN004	C1-1S	Water	06/24/09 16:09	06/26/09 10:30
9060808-13	MOA09TCN005	C1-2S	Water	06/24/09 16:48	06/26/09 10:30
9060808-14	MOA09TCN006	C1-2S	Water	06/24/09 16:48	06/26/09 10:30
9060808-15	MOA09TCN007	C1-3S	Water	06/24/09 17:16	06/26/09 10:30
9060808-16	MOA09TCN008	EFFLUENT	Water	06/23/09 07:00	06/26/09 10:30

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS001
Matrix: Water
Laboratory #: 9060808-01

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	330	mg/L	5.0	0.50	5	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS002
Matrix: Water
Laboratory #: 9060808-02

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	260	mg/L	4.0	0.40	4	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS003
Matrix: Water
Laboratory #: 9060808-03

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	180	mg/L	4.0	0.40	4	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS004
Matrix: Water
Laboratory #: 9060808-04

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	440	mg/L	5.0	0.50	5	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS005
Matrix: Water
Laboratory #: 9060808-05

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	260	mg/L	4.0	0.40	4	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS006
Matrix: Water
Laboratory #: 9060808-06

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	320	mg/L	4.0	0.40	4	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS007
Matrix: Water
Laboratory #: 9060808-07

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	700	mg/L	4.8	0.48	4.81	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TSS008
Matrix: Water
Laboratory #: 9060808-08

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	51	mg/L	3.3	0.33	3.33	EPA 160.2	06/29/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN001
Matrix: Water
Laboratory #: 9060808-09

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.12	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN002
Matrix: Water
Laboratory #: 9060808-10

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.18	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN003
Matrix: Water
Laboratory #: 9060808-11

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	ND	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN004
Matrix: Water
Laboratory #: 9060808-12

	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	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN005
Matrix: Water
Laboratory #: 9060808-13

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.12	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN006
Matrix: Water
Laboratory #: 9060808-14

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.16	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN007
Matrix: Water
Laboratory #: 9060808-15

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.18	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

Date Received: June 26, 2009
Project # / Name: None / 516.02
Sample Identification: MOA09TCN008
Matrix: Water
Laboratory #: 9060808-16

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.13	ug/L	1.0	0.10	1	EPA 335.2	07/06/09	

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 #: 9060808
Reporting Date: December 3, 2009

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 PG90035 - Default Prep GenChem											
Blank (PG90035-BLK1)					Prepared & Analyzed: 29-Jun-09						
Total Suspended Solids	ND		2.0	mg/L							
Duplicate (PG90035-Dup1)		**Source: 9060808-01**			Prepared & Analyzed: 29-Jun-09						
Total Suspended Solids	323.0		5.0	mg/L		326.5			1.08	20	
Batch PG90296 - Default Prep GenChem											
Blank (PG90296-BLK1)					Prepared & Analyzed: 06-Jul-09						
Cyanide (total)	ND	0.10	1.0	ug/L							
Duplicate (PG90296-DUP1)		**Source: 9060808-16**			Prepared & Analyzed: 06-Jul-09						
Cyanide (total)	0.1700	0.10	1.0	ug/L		0.1300			26.7	20	QR-04
Matrix Spike (PG90296-MS1)		**Source: 9060808-16**			Prepared & Analyzed: 06-Jul-09						
Cyanide (total)	29.57	1.0	10	ug/L	33.3	0.1300	88.3	70-130			
Matrix Spike Dup (PG90296-MSD1)		**Source: 9060808-16**			Prepared & Analyzed: 06-Jul-09						
Cyanide (total)	30.03	1.0	10	ug/L	33.3	0.1300	89.7	70-130	1.57	20	
Reference (PG90296-SRM1)					Prepared & Analyzed: 06-Jul-09						
Cyanide (total)	12.03	1.0	10	ug/L	13.8		87.1	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

QR-04 The RPD of the sample duplicates was outside the normal acceptance range, but this is because the analyte concentration was below or near the reporting limit. This leads to high RPDs.

RL - are levels down to which we can quantify with reliability, a result below this level is reported as "ND" for Not Detected.

9060808

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 ATTN: Mike Galloway (831) 724- 5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1009	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Suspended Solids. (EPA 160.2) **Need accuracy +/- 1 mg/L**

MATRIX: Water	**Preservative:** None	**Type of Container:** 1 liter HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TSS001	F1-1S	1	6/23/09	1520	intact	-01
MOA09TSS002	F1-2S	1	↓	1555	↓	-02
MOA09TSS003	F1-3S	1	↓	1610	↓	-03
MOA09TSS004	C1-1S	1	6/24/09	1609	↓	-04
MOA09TSS005	C1-2S	1	↓	1648	↓	-05
MOA09TSS006	C1-2S	1	↓	1648	↓	-06
MOA09TSS007	C1-3S	1	↓	1716	↓	-07

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage. 1.0°C, FedEx

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/26/09 1200	Fed-x	[signature]	6/26/09, 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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90608008

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 ATTN: Mike Galloway (831) 724- 5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-~~1008~~ 1009	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Total Suspended Solids. (EPA 160.2) **Need accuracy +/- 1 mg/L**

MATRIX: Water	**Preservative:** None	**Type of Container:** 500-mL HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TSS008	EFFLUENT	2	6/23/9	0700	Intact	-08

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage. 1.0°C Fed Ex

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/9 1030	hand	[illegible]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/25/09 1200	Fed-X	[illegible]	6/26/09, 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

9060808

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 ATTN: Mike Galloway (831) 724- 5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1009	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Cyanide (EPA 335.2). **Detection limit** *<1 µg/L*

MATRIX: Water	**Preservative:** NaOH to pH 12.5	**Type of Container:** 500 ML HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN001	F1-1S	1	6/23/09	1520	Intact	-09
MOA09TCN002	F1-2S	1	↓	1555	↓	-10
MOA09TCN003	F1-3S	1	↓	1610	↓	-11
MOA09TCN004	C1-1S	1	6/24/09	1609	↓	-12
MOA09TCN005	C1-2S	~~1~~ 1	↓	1648	↓	-13
MOA09TCN006	C1-2S	1	↓	1648	↓	-14
MOA09TCN007	C1-3S	~~1~~ 2	↓	1716	Note: These 2 not preserved	-15

NOTE: Sample 005 (C1-2S has extra volume to run MS and MSD. These 2 extra volumes are 1 liter HDPE's.

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage. 1.0°C FED EX

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/09 1200	Fed-X	[illegible]	6/26/09 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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90600808

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 ATTN: Mike Galloway (831) 724- 5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-~~1008~~ 1009	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Total Cyanide (EPA 335.2). **Detection limit** *<1 µg/L*

MATRIX: Water	**Preservative:** NaOH to pH 12.5	**Type of Container:** 500 ML HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09TCN008	EFFLUENT	1	6/23/9	0700	Intact	-16

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage. 1.0°C FED EX

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/24/9 1030	hand	[signature]	6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25/09 1200	Fed-x	[signature]	6/26/09, 1031
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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APPENDIX C

Receiving Water Quality Monitoring

C2 Aromatic Hydrocarbons and Color

SGS North America, Inc.

RECEIVING WATER, HYDROCARBONS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09VOA001	F1-1S	SAMPLE
MOA09VOA002	F1-2S	SAMPLE
MOA09VOA003	F1-2S	FIELD DUPLICATE
MOA09VOA004	F1-3S	SAMPLE
MOA09VOA005	C1-1S	SAMPLE
MOA09VOA006	C1-2S	SAMPLE
MOA09VOA007	C1-3S	SAMPLE
MOA09VOA008	EFFLUENT	SAMPLE
MOA09VOA009	C-STATION	FIELD BLANK
MOA09VOA010	TRIP BLANK	TRIP BLANK
MOA09VOA011	C-STATION	FIELD DUPLICATE

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

Project:	516.02
Client:	Kinnetic Laboratories, Inc.
SGS Work Order:	1093054

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

Client	KINNETL	Kinnetic Laboratories, Inc.	**Printed Date/Time**	7/7/2009	14:23
Workorder	1093054	516.02			

Sample ID	**Client Sample ID**

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

905691 **CCV** **CCV for HBN 216253 [VMS/10588]**

8260B - ICV recovery for chloromethane and vinyl chloride does not meet QC criteria (biased high). These analytes were not detected above the PQL in the associated samples.

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093054	
	516.02	**Released by:**
Client:	Kinnetic Laboratories, Inc.	
Report Date:	July 07, 2009	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1093054001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 15:20
Client Sample ID	MOA09VOA001	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	2.14	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	103		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	98.5		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	102		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 15:55
Client Sample ID	MOA09VOA002	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	F1-2S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	101		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	99.5		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	100		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 15:55
Client Sample ID	MOA09VOA003	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	F1-2S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	106		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	100		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	103		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 16:10
Client Sample ID	MOA09VOA004	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	F1-3S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	101		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	97.5		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	103		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/24/2009 16:09
Client Sample ID	MOA09VOA005	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	C1-1S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	101		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	99.2		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	102		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/24/2009 16:09
Client Sample ID	MOA09VOA005	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	C1-1S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	102		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	99		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	103		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/24/2009 16:48
Client Sample ID	MOA09VOA006	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	C1-2S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	102		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	96.3		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	104		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054008		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/24/2009 17:16
Client Sample ID	MOA09VOA007	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	C1-3S		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	103		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	96.4		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	102		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054009		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/24/2009 16:48
Client Sample ID	MOA09VOA009	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	C-STATION		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	99.7		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	99.8		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	101		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054010		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 14:00
Client Sample ID	MOA09VOA008	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	EFFLUENT		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	7.75	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	1.06	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	0.950	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	3.63	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	1.55	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	100		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	99.9		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	98.8		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	1093054011		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/07/2009 14:23
Project Name/#	516.02	**Collected Date/Time**	06/23/2009 14:00
Client Sample ID	MOA09VOA010	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**
Location/Well ID	TRIP BLANK		

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	ND	0.400	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Toluene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Ethylbenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,4-Dichlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Chlorobenzene	ND	0.500	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
P & M -Xylene	ND	2.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
o-Xylene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,2-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
1,3-Dichlorobenzene	ND	1.00	ug/L	EPA 602/624	A		07/02/09	07/02/09	DSH
Surrogates									
1,2-Dichloroethane-D4 <surr>	105		%	EPA 602/624	A	73-120	07/02/09	07/02/09	DSH
Toluene-d8 <surr>	101		%	EPA 602/624	A	80-120	07/02/09	07/02/09	DSH
4-Bromofluorobenzene <surr>	102		%	EPA 602/624	A	76-120	07/02/09	07/02/09	DSH

SGS Ref.#	905687	Method Blank	**Printed Date/Time**		07/07/2009 14:23
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	VXX19591
Project Name/#	516.02			**Method**	SW5030B
Matrix	Water (Surface, Eff., Ground)			**Date**	07/02/2009

QC results affect the following production samples:

1093054001, 1093054002, 1093054003, 1093054004, 1093054005, 1093054006, 1093054007, 1093054008, 1093054009, 1093054010, 1093054011

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy					
Benzene	ND	0.400	0.120	ug/L	07/02/09
Toluene	ND	1.00	0.310	ug/L	07/02/09
Ethylbenzene	ND	1.00	0.310	ug/L	07/02/09
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	07/02/09
Chlorobenzene	ND	0.500	0.150	ug/L	07/02/09
P & M -Xylene	ND	2.00	0.620	ug/L	07/02/09
o-Xylene	ND	1.00	0.310	ug/L	07/02/09
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	07/02/09
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	07/02/09
Surrogates					
1,2-Dichloroethane-D4 <surr>	103	73-120		%	07/02/09
Toluene-d8 <surr>	98.8	80-120		%	07/02/09
4-Bromofluorobenzene <surr>	104	76-120		%	07/02/09

Batch	VMS10588
Method	EPA 602/624
Instrument	HP 5890 Series II MS1 VJA

SGS Ref.#	905688	Lab Control Sample	**Printed Date/Time**	07/07/2009	14:23
	905689	Lab Control Sample Duplicate	**Prep Batch**	VXX19591	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW5030B	
Project Name/#	516.02		**Date**	07/02/2009	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093054001, 1093054002, 1093054003, 1093054004, 1093054005, 1093054006, 1093054007, 1093054008, 1093054009, 1093054010, 1093054011

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy								
Benzene	LCS	31.7	106	(80-120)			30 ug/L	07/02/2009
	LCSD	31.6	105		0	(< 20)	30 ug/L	07/02/2009
Toluene	LCS	30.3	101	(77-120)			30 ug/L	07/02/2009
	LCSD	28.2	94		7	(< 20)	30 ug/L	07/02/2009
Ethylbenzene	LCS	31.3	104	(80-120)			30 ug/L	07/02/2009
	LCSD	28.8	96		8	(< 20)	30 ug/L	07/02/2009
1,4-Dichlorobenzene	LCS	30.8	103	(80-120)			30 ug/L	07/02/2009
	LCSD	29.1	97		6	(< 20)	30 ug/L	07/02/2009
Chlorobenzene	LCS	29.5	98	(80-120)			30 ug/L	07/02/2009
	LCSD	27.6	92		7	(< 20)	30 ug/L	07/02/2009
P & M -Xylene	LCS	61.8	103	(80-120)			60 ug/L	07/02/2009
	LCSD	57.0	95		8	(< 20)	60 ug/L	07/02/2009
o-Xylene	LCS	31.1	104	(80-120)			30 ug/L	07/02/2009
	LCSD	29.0	97		7	(< 20)	30 ug/L	07/02/2009
1,2-Dichlorobenzene	LCS	30.5	102	(80-120)			30 ug/L	07/02/2009
	LCSD	29.1	97		5	(< 20)	30 ug/L	07/02/2009
1,3-Dichlorobenzene	LCS	30.3	101	(80-120)			30 ug/L	07/02/2009
	LCSD	29.4	98		3	(< 20)	30 ug/L	07/02/2009
Surrogates								
1,2-Dichloroethane-D4 <surr>	LCS		95	(73-120)				07/02/2009
	LCSD		100		5			07/02/2009
Toluene-d8 <surr>	LCS		101	(80-120)				07/02/2009
	LCSD		96		5			07/02/2009
4-Bromofluorobenzene <surr>	LCS		106	(76-120)				07/02/2009
	LCSD		106		0			07/02/2009

SGS Ref.#	905688	Lab Control Sample	**Printed Date/Time**	07/07/2009	14:23
	905689	Lab Control Sample Duplicate	**Prep** **Batch**	VXX19591	
Client Name	Kinnetic Laboratories, Inc.		**Method**	SW5030B	
Project Name/#	516.02		**Date**	07/02/2009	
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

Batch	VMS10588
Method	EPA 602/624
Instrument	HP 5890 Series II MS1 VJA

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1093054

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.02

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCl, 4°C. Station F1 samples contain L- Ascorbic Acid	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOA001	F1-1S	3	6/23	1520		1 A-C
MOA09VOA002	F1-2S	3		1555		2
MOA09VOA003	F1-2S	3		1555		3
MOA09VOA004	F1-3S	3	6/23	1610		4
MOA09VOA005	C1-1S	6	6/24	1609		5 6 A-C
MOA09VOA006	C1-2S	3		1648		7
MOA09VOA007	C1-3S	3		1716		8
MOA09VOA009	C-STATION	3	6/24	1648		9 A-C
MOA09VOA010	TRIP BLANK	3	—	—		11 A-C

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DAT3E OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25 1340	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6-25-09

C:\Projects\MOA\MOA09\COCs\RW COCs (June)\RW09COC.wpd

1340

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental services, Inc. 200 W. Potter Anchorage, Ak. 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1093054

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1004	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 602. Detection limit 0.5 µg/L.

MATRIX: Water	**Preservative:** HCl, 4°C; Effluent sample contains L-Ascorbic Acid	**Type of Container:** 40-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09VOA008	EFFLUENT	3	6/23/09	1400		(10) A-C
[redacted]	[redacted]	[redacted]				

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/23/09 1450	HAND	[signature]	6/23/09 14:50
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/26 1340	hand		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	6-25-09 1340

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\RW_EFF09COC.wpd

1093054

SGS

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA	
	✓		Are samples **RUSH**, priority or *w/in 72 hrs* of **hold time**?
		✓	If yes, have you done *e-mail ALERT notification*?
	✓		Are samples *within 24 hrs.* of **hold time** or **due date**?
		✓	If yes, have you also *spoken with* supervisor?
		✓	Archiving bottles: Are lids marked w/ red "X"?
✓			Were samples collected with proper preservative?
	✓		**Any problems (ID, cond'n, HT, etc)? Explain:**
	JJR X	✓	If this is for PWS, provide **PWSID:**_____
	✓		Payment received: $_____ by Check or Credit Card
	✓		Will courier charges apply?
✓			Data package required? (Level: 1 / 2 / 3 / 4)
			Notes: _____
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

TAT (circle one): ~~Standard~~ -or- Rush
Received Date: JJR ~~6/5~~ 6/25/09
Received Time: 1340

Cooler ID	Temperature	Measured w/ (Therm/IR ID#)
1	Chilled °C	
	°C	
	°C	
	°C	

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):
Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other: _____

Additional Sample Remarks: *(√ if applicable)*
_____Extra Sample Volume?
_____Limited Sample Volume?
_____Multi-Incremental Samples?
_____Lab-filtered for dissolved_____
_____Ref Lab required for_____
_____Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

Yes	No	
		Is received temperature ≤6°C?
		Were containers ice-free? *Notify PM immediately of any ice in samples.* If some cooler temperatures are non-compliant, see form FS-0029 (attached) for samples/analyses affected.
		Was there an airbill? *(If "yes," see attached.)*
		Was cooler sealed with custody seals & were they intact? # / where: _____
		Was there a COC with cooler?
		Was COC sealed in plastic bag & taped inside lid of cooler?
		Was the COC filled out properly? Did labels correspond?
		Did the COC indicate USACE / Navy / AFCEE project?
		Samples were packed to prevent breakage with *(circle one)*: Bubble Wrap Vermiculite Other (specify): _____
		Were all samples sealed in separate plastic bags?
		Were all VOCs free of headspace and/or MeOH preserved?
		Were correct container / sample sizes submitted?
		Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

Was client notified of problems? Yes / No

By (SGS PM): _____

Individual contacted: _____

Via: Phone / Fax / E-mail *(circle one)*

Date/Time: _____

Reason for contact: _____

Change Order Required? Yes / No

Notes:

Completed by (sign): [signature] **(print):** Joe Rud.

Login proof: Self-check completed JJR **Peer-reviewer's Initials** JEB

Form # F004r20 revised 05/05/2009

SGS

1093054

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

						Container Volume							Container Type							Preservative									
#	Container ID	Matrix	Test	QC	TB	1 L	500 mL	250 mL or 8oz	125 mL or 4oz	60 mL	40 mL	Other (specify)	AG	CG	HDPE	Nalgene	Coli	Septa	Other (specify)	None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	NaOH+ZnAc	Other (specify)	* Notes
1-10	A-C	1	602								30		✓					✓			✓								
11	A-C	1	602		✓						3		✓					✓			✓								
Bottle Totals											33																		

* Note: Containers which require (additional) chemical preservation upon receipt must be documented per SOP#106.

Completed by: Joe Rodi Date: 6/26/09

Form # F004r20 revised 05/05/2009

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1092878	
	516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	Heidi Geri
Report Date:	July 30, 2009	2009.07.30 18:51:17 -08'00'

Alaska Division Project Manager

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS Ref.#	1092878013		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 8:26
Client Sample ID	E1-1S MOA09CLR001	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878014		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 8:37
Client Sample ID	E1-2S MOA09CLR002	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878015		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 8:46
Client Sample ID	E1-3S MOA09CLR003	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878016		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 9:12
Client Sample ID	E1-4S MOA09CLR004	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	5.00	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878017		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 10:19
Client Sample ID	E2-1S MOA09CLR005	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878018		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 10:23
Client Sample ID	E2-2S MOA09CLR006	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878019		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 10:29
Client Sample ID	E2-3S MOA09CLR007	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878020		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 10:44
Client Sample ID	E2-4S MOA09CLR008	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878021		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 12:21
Client Sample ID	E3-1S MOA09CLR009	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878022		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 12:32
Client Sample ID	E3-2S MOA09CLR010	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878023		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 12:47
Client Sample ID	E3-3S MOA09CLR011	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878024		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 13:09
Client Sample ID	E3-4S MOA09CLR012	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878025		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 15:24
Client Sample ID	F1-1S MOA09CLR03	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	8.00	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878026		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 15:55
Client Sample ID	F1-2S MOA09CLR014	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878027		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 16:10
Client Sample ID	F1-3S MOA09CLR015	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878028		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 16:38
Client Sample ID	F1-4S MOA09CLR016	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878029		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 16:55
Client Sample ID	F2-1S MOA09CLR017	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878030		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 17:02
Client Sample ID	F2-2S MOA09CLR018	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878031		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 17:14
Client Sample ID	F2-3S MOA09CLR019	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878032		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 17:35
Client Sample ID	F2-4S MOA09CLR020	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS Ref.#	1092878033		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 18:09
Client Sample ID	F3-1S MOA09CLR021	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	SDP

SGS Ref.#	1092878034		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 18:15
Client Sample ID	F3-2S MOA09CLR022	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	SDP

SGS Ref.#	1092878035		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 18:23
Client Sample ID	F3-3S MOA09CLR023	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	SDP

SGS Ref.#	1092878036		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 18:35
Client Sample ID	F3-4S MOA09CLR024	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	5.00	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	SDP

SGS

SGS Ref.#	1092878042		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 8:26
Client Sample ID	E1-1S MOA09CLR001 DUP	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878043		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 12:47
Client Sample ID	E3-3S MOA09CLR011	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	MPL

SGS

SGS Ref.#	1092878044		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/30/2009 18:45
Project Name/#	516.01	**Collected Date/Time**	06/23/2009 18:09
Client Sample ID	F3-1S MOA09CLR021 DUP	**Received Date/Time**	06/24/2009 13:00
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/24/09	SDP

SGS

SGS Ref.#	903975	Method Blank	**Printed Date/Time**	07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.01			**Method**
Matrix	Water (Surface, Eff., Ground)			**Date**

QC results affect the following production samples:

1092878033, 1092878034, 1092878035, 1092878036, 1092878044

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Color	ND	5.00	5.00	PCU	06/24/09
Batch WAT7635					
Method SM20 2120B					
Instrument					

SGS

SGS Ref.#	904164	Method Blank	**Printed Date/Time**	07/30/2009 18:45
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.01			**Method**
Matrix	Water (Surface, Eff., Ground)			**Date**

QC results affect the following production samples:

1092878013, 1092878014, 1092878015, 1092878016, 1092878017, 1092878018, 1092878019, 1092878020, 1092878021, 1092878022, 1092878023, 1092878024, 1092878025, 1092878026, 1092878027, 1092878028, 1092878029, 1092878030, 1092878031, 1092878032, 1092878042, 1092878043

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Color	ND	5.00	5.00	PCU	06/24/09
Batch WAT7639					
Method SM20 2120B					
Instrument					

SGS

SGS Ref.#	903976	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	516.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878033, 1092878034, 1092878035, 1092878036, 1092878044

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color	LCS	14.0	*					06/24/2009

Batch	WAT7635
Method	SM20 2120B
Instrument	

SGS

SGS Ref.#	904165	Lab Control Sample	**Printed Date/Time**	07/30/2009	18:45
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	516.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1092878013, 1092878014, 1092878015, 1092878016, 1092878017, 1092878018, 1092878019, 1092878020, 1092878021, 1092878022, 1092878023, 1092878024, 1092878025, 1092878026, 1092878027, 1092878028, 1092878029, 1092878030, 1092878031, 1092878032, 1092878042, 1092878043

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color	LCS	14.0	*					06/24/2009

Batch WAT7639
Method SM20 2120B
Instrument

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

1092878

REQUIRED COMPLETION DATE:	P.O. #: AK09-1006	KLI Proj. #: 516.02

ANALYSIS TYPE: Color determination (SM 2120B).
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: None, 4° C	Type of Container: 250-mL HDPE

STATION LOCATION	COLOR SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
E1-1S	MOA09CLR001	06/23/09 0826	13 A 42 A	
E1-2S	MOA09CLR002	0837	14	
E1-3S	MOA09CLR003	0846	15	
E1-4S	MOA09CLR004	0912	16	
E2-1S	MOA09CLR005	1019	17	
E2-2S	MOA09CLR006	1023	18	
E2-3S	MOA09CLR007	1029	19	
E2-4S	MOA09CLR008	1044	20	
E3-1S	MOA09CLR009	1221	21	
E3-2S	MOA09CLR010	1232	22	
E3-3S	MOA09CLR011	1247	23 43 A	
E3-4S	MOA09CLR012	1309	24	

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/24/09 1300	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
			[signature]	6/24/09 1300

V - MS

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1092878
REQUIRED COMPLETION DATE:	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Color determination (SM 2120B).
Data to be reported in printed and digital formats.

MATRIX: Water	**Preservative:** None, 4° C	**Type of Container:** 250-mL HDPE

STATION LOCATION	COLOR SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
F1-1S	MOA09CLR013	06/23/09 1524	25 A	
F1-2S	MOA09CLR014	1555	26	
F1-3S	MOA09CLR015	1610	27	
F1-4S	MOA09CLR016	1638	28	
F2-1S	MOA09CLR017	1655	29	
F2-2S	MOA09CLR018	1702	30	
F2-3S	MOA09CLR019	1714	31	
F2-4S	MOA09CLR020	1735	32	
F3-1S	MOA09CLR021	1809	33 44 A	
F3-2S	MOA09CLR022	1815	34	
F3-3S	MOA09CLR023	1823	35	
F3-4S	MOA09CLR024	1835	36	

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/24/09 1300	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
			[signature]	6/24/09 1300

C:\Projects\MOA\MOA09\COCs\RW COCs (June)\RW_color09_SGSCOC.wpd

✓ - MS

Laboratory Analysis Report

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: http://www.us.sgs.com

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

Work Order:	1093004	
	516.02/516.01	**Released by:**
Client:	Kinnetic Laboratories, Inc.	Heidi Geri
Report Date:	July 09, 2009	2009.07.09 14:03:58 - 08'00'

Alaska Division Project Manager

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

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 being 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.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.
R	Rejected

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

SGS

SGS Ref.#	1093004001		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 16:09
Client Sample ID	C1-1S MOA09CLR025	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004002		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 16:58
Client Sample ID	C1-2S MOA09CLR026	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	5.00	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS Ref.#	1093004003		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 17:16
Client Sample ID	C1-3S MOA09CLR027	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004004		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 17:42
Client Sample ID	C1-4S MOA09CLR028	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004005		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:12
Client Sample ID	C2-1S MOA09CLR029	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	5.00	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004006		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:19
Client Sample ID	C2-2S(A) MOA09CLR030	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004007		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:19
Client Sample ID	C2-2S(B) MOA09CLR031	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS Ref.#	1093004008		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:19
Client Sample ID	C2-2S(C) MOA09CLR032	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004009		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:44
Client Sample ID	C2-3SMOA09CLR033	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004010		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 18:55
Client Sample ID	C2-4SMOA09CLR034	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004011		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 19:36
Client Sample ID	C3-1S(A) MOA09CLR035	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004012		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 19:36
Client Sample ID	C3-1S(B) MOA09CLR036	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS Ref.#	1093004013		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 19:36
Client Sample ID	C3-1S(C) MOA09CLR037	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004014		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 19:48
Client Sample ID	C3-2S MOA09CLR038	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS

SGS Ref.#	1093004015		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 20:05
Client Sample ID	C3-3S MOA09CLR039	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS Ref.#	1093004016		
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/09/2009 13:52
Project Name/#	516.02/516.01	**Collected Date/Time**	06/24/2009 20:20
Client Sample ID	C3-4S MOA09CLR040	**Received Date/Time**	06/25/2009 13:40
Matrix	Water (Surface, Eff., Ground)	**Technical Director**	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/25/09	MPL

SGS Ref.#	904647	Method Blank	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	516.02/516.01			**Method**	
Matrix	Water (Surface, Eff., Ground)			**Date**	

QC results affect the following production samples:

1093004001, 1093004002, 1093004003, 1093004004, 1093004005, 1093004006, 1093004007, 1093004008, 1093004009, 1093004010, 1093004011, 1093004012, 1093004013, 1093004014, 1093004015, 1093004016

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
Waters Department					
Color	ND	5.00	5.00	PCU	06/25/09
Batch WAT7645					
Method SM20 2120B					
Instrument					

SGS

SGS Ref.#	905043	Duplicate	**Printed Date/Time**	07/09/2009	13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	516.02/516.01			**Method**	
Original	1093004011			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004002, 1093004003, 1093004004, 1093004005, 1093004006, 1093004007, 1093004008, 1093004009, 1093004010, 1093004011, 1093004012, 1093004013, 1093004014, 1093004015, 1093004016

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color	ND	ND	PCU	0	(< 20)	06/25/2009

Batch WAT7645
Method SM20 2120B
Instrument

SGS Ref.#	905049	Duplicate	**Printed Date/Time**	07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**
Project Name/#	516.02/516.01			**Method**
Original	1093004001			**Date**
Matrix	Water (Surface, Eff., Ground)			

QC results affect the following production samples:

1093004001, 1093004002, 1093004003, 1093004004, 1093004005, 1093004006, 1093004007, 1093004008, 1093004009, 1093004010, 1093004011

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date
Waters Department						
Color	ND	ND	PCU	0	(< 20)	06/25/2009

Batch WAT7645
Method SM20 2120B
Instrument

SGS Ref.#	1093004021	Billable Duplicate	**Printed Date/Time**		07/09/2009 13:52
Client Name	Kinnetic Laboratories, Inc.		**Prep**	**Batch**	
Project Name/#	516.02/516.01			**Method**	
Original	1093004001			**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	ND	ND	PCU	0		06/25/2009

Batch WAT7645
Method SM20 2120B
Instrument

SGS Ref.#	904648	Lab Control Sample	**Printed Date/Time**	07/09/2009	13:52
			Prep	**Batch**	
Client Name	Kinnetic Laboratories, Inc.			**Method**	
Project Name/#	516.02/516.01			**Date**	
Matrix	Water (Surface, Eff., Ground)				

QC results affect the following production samples:

1093004001, 1093004002, 1093004003, 1093004004, 1093004005, 1093004006, 1093004007, 1093004008, 1093004009, 1093004010, 1093004011, 1093004012, 1093004013, 1093004014, 1093004015, 1093004016

Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Waters Department								
Color	LCS	15.0	*					06/25/2009

Batch WAT7645
Method SM20 2120B
Instrument

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:	
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Heidi Geri (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178	1093004
REQUIRED COMPLETION DATE:	**P.O. #:** AK09-1006	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Color determination (SM 2120B).
Data to be reported in printed and digital formats.

MATRIX: Water	**Preservative:** None, 4° C	**Type of Container:** 250-mL HDPE

STATION LOCATION	COLOR SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
C1-1S	MOA09CLR025	06/24/09 1609	1 A 21 A	
C1-2S	MOA09CLR026	1648	2	
C1-3S	MOA09CLR027	1716	3	
C1-4S	MOA09CLR028	1742	4	
C2-1S	MOA09CLR029	1812	5	
C2-2S(A)	MOA09CLR030	1819	6	
C2-2S(B)	MOA09CLR031	1819	7	
C2-2S(C)	MOA09CLR032	1819	8	
C2-3S	MOA09CLR033	1844	9	
C2-4S	MOA09CLR034	1855	10	
C3-1S(A)	MOA09CLR035	1936	11 ~~22~~ A	TAPED TOGETHER
C3-1S(B)	MOA09CLR036	1936	12	"
C3-1S(C)	MOA09CLR037	1936	13	"
C3-2S	MOA09CLR038	1948	14	
C3-3S	MOA09CLR039	2005	15	
C3-4S	MOA09CLR040	2020	16	

One in ten color samples should also be run in duplicate. Please report duplicates with a "D" or "DUP" appended to the SAMPLE ID.

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/25 1340	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
			[signature]	6-25-09 1340

APPENDIX C

Receiving Water Quality Monitoring

C3 Polycyclic Aromatic Hydrocarbons

Texas A&M GERG

RECEIVING WATER, PAH

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09PAH001	F1-1S	SAMPLE
MOA09PAH002	F1-2S	SAMPLE
MOA09PAH003	F1-3S	SAMPLE
MOA09PAH004	C1-1S	SAMPLE
MOA09PAH005	C1-2S	SAMPLE
MOA09PAH006	C1-3S	SAMPLE
MOA09PAH007	EFFLUENT	SAMPLE

GEOCHEMICAL & ENVIRONMENTAL RESEARCH GROUP

GERG

College of Geosciences
Texas A&M University

Kinnetic Laboratories

Municipality of Anchorage 2009 Sampling

Case Narrative: PAH

Analytical Report No. J6692-A

I. Background

Seven water samples were received in duplicate under chain of custody in one sample delivery group on June 26, 2009. Samples were logged in under chain of custody as SDG J6692 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.

<u>Example Calculations</u> 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:

$$Cx = \frac{Ax * Cqs}{Aqs * \overline{RRF\ (n)}}$$

$$\%\ Recovery = \frac{Ax * Cis * 100}{Ais * Cqs * \overline{RRF\ (m)}}$$

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

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 87.6% and 88.0%. The average RPD was 2.1. The overall QA objectives were met. No further action was required. No further action was taken. No other QA variances were found for these data.

Reviewed and Approved: Terry L. Wade 8/7/9

Terry L. Wade Ph.D.

Deputy Director for Environmental Sciences

Sample Integrity Report
& Chains of Custody

Storage Location: _____

GERG SAMPLE RECEIVING/ INTEGRITY REPORT

Date / Time Received: 6/26/2009 1030

Project Name / F&W Catalog # 516.02

SDG#: J6692

Sender: Kinetic Laboratories

P.I. : T Wade **Notif. by (Name/Date):** C Starr

1. Number of Shipping Containers: 2

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): 12°C 10°C

6. Comments:

Due 8/7/2009

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: Cindy Stern **Date:** 6/26/09

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

REQUIRED COMPLETION DATE: 45 days	**P.O. #:** AK09-1008	**KLI Proj. #:** 516.02

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, 4°C; Station F1 samples contain L-Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PAH001	F1-1S	2	6/23	1520		
MOA09PAH002	F1-2S	2	6/23	1555		
MOA09PAH003	F1-3S	2	6/23	1610		
MOA09PAH004	C1-1S	2	6/24	1609		
MOA09PAH005	C1-2S	2	6/24	1648		
MOA09PAH006	C1-3S	2	6/24	1716		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/25/09 1400	Fed Ex	[illegible]	6/26/09 10:30
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\MOA09\COCs\RW COCs (June)\RW09COC.wpd

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	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 45 days	**P.O. #:** AK09-1008	**KLI Proj. #:** 516.01

ANALYSIS TYPE: Extraction of water for hydrocarbon analysis (GERG SOP-8901); determination of PAH and their alkylated homologues (GERG SOP-9733).

MATRIX: Water	**Preservative:** 4°C, HCl, L- Ascorbic Acid	**Type of Container:** 1-L amber glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09PAH007	EFFLUENT	2	6/23/09	1400		

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/23/09 1450	HAND	[signature]	6/23/09 1450
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/25/ 1400	Fed Ex	[signature]	6/26/09 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

:\Projects\MOA\MOA09\COCs\DRY COC's(June)\RW_EFF09COC.wpd

From: Origin ID: CYMA (907) 276-6178
KINNETIC LABORATORIES, INC
KINNETIC LABORATORIES, INC
1102 WEST 7TH AVENUE

ANCHORAGE, AK 99501

FedEx. Express

Ship Date: 25JUN09
ActWgt: 40.0 LB
CAD: 3116229/INET9060
Account#: S *********

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
833 Graham Road

College Station, TX 77845

1 of 2

TRK# 0201 7967 2705 6909

MASTER

FRI - 26JUN **A4**
PRIORITY OVERNIGHT

AB CLLA

77845
TX-US
IAH

After printing this label:
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From: Origin ID: CYMA (907) 276-6178
KINNETIC LABORATORIES, INC
KINNETIC LABORATORIES, INC
1102 WEST 7TH AVENUE

ANCHORAGE, AK 99501

FedEx. Express

Ship Date: 25JUN09
ActWgt: 66.0 LB
CAD: 3116229/INET9060
Account#: S *********

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
833 Graham Road

College Station, TX 77845

2 of 2

MPS# 0263 7967 2705 6997

Mstr# 7967 2705 6909 0201

FRI - 26JUN **A4**
PRIORITY OVERNIGHT

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Identification Sheet

Subproject Name : Unknown
Client Name : Kinnetics Laboratories, IN
Subproject ID : 20090603
Receive Date :
Project No:
Due Date:
PO A :
PO B :
PO C :
PO D :

Gerg ID	Client ID	SDG	Matrix	Sample Description
C62174	MOA09PAH001	J6692		
C62175	MOA09PAH002	J6692		
C62176	MOA09PAH003	J6692		
C62177	MOA09PAH004	J6692		
C62178	MOA09PAH005	J6692		
C62179	MOA09PAH006	J6692		
C62180	MOA09PAH007	J6692		

Total Samples 7

Sample Information Sheet

Subproject Name : Unknown
Client Name : Kinnetics Laboratories, IN
Subproject ID : 20090603
Recieve Date :

Project No:
Due Date:

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
C62174	MOA09PAH001	J6692									A						A																
C62175	MOA09PAH002	J6692									A						A																
C62176	MOA09PAH003	J6692									A						A																
C62177	MOA09PAH004	J6692									A						A																
C62178	MOA09PAH005	J6692									A						A																
C62179	MOA09PAH006	J6692									A						A																
C62180	MOA09PAH007	J6692									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

M3603

Kinnetics: Municipality of Anchorage

Client Sample ID	MOA09PAH001	MOA09PAH002	MOA09PAH003	MOA09PAH004
Sample Descriptor				
Original Sample				
GERG ID	C62174	C62175	C62176	C62177
Sample Type	SAMP	SAMP	SAMP	SAMP
SDG	J6692	J6692	J6692	J6692
Volume	1.06	1.07	1.06	1.06
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	M3603	M3603	M3603	M3603
Method	GCMS	GCMS	GCMS	GCMS
Collection Date	06/23/09	06/23/09	06/23/09	06/24/09
Receive Date	06/26/09	06/26/09	06/26/09	06/26/09
Extraction Date	07/22/09	07/22/09	07/22/09	07/22/09
Analysis Date	08/01/09	08/01/09	08/01/09	08/01/09
Surrogate Compounds	**%Recovery**	**%Recovery**	**%Recovery**	**%Recovery**
d8-Naphthalene	78.0	86.6	88.2	88.7
d10-Acenaphthene	78.4	87.1	88.2	84.8
d10-Phenanthrene	80.3	89.4	91.3	91.7
d12-Chrysene	98.0	101.7	106.2	107.2
d12-Perylene	76.5	70.9	76.4	80.0
Total PAHs	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Total PAHs with Perylene	619.8	66.8	64.5	72.0
Total PAHs without Perylene	615.0	66.0	63.6	69.6
Total NS&T PAHs	354.2	56.8	52.1	41.0

ND	Not Detected
J	<MDL
NA	Not Applicable
Q	Results Outside QC
I	Interference
B	Blank Contamination >3xMDL
D	Dilution

Kinnetics: Municipality of Anchorage

Client Sample ID	MOA09PAH001		MOA09PAH002		MOA09PAH003		MOA09PAH004	
Sample Descriptor								
Original Sample								
GERG ID	C62174		C62175		C62176		C62177	
Sample Type	SAMP		SAMP		SAMP		SAMP	
SDG	J6692		J6692		J6692		J6692	
PAH Compounds	**Concentration**		**Concentration**		**Concentration**		**Concentration**	
Naphthalene	73.9		10.9		16.9		6.9	
C1-Naphthalenes	71.9		10.8		14.0		11.5	
C2-Naphthalenes	48.2		7.0	J	8.5	J	8.8	J
C3-Naphthalenes	31.4		3.7	J	5.1	J	15.3	
C4-Naphthalenes	29.8			ND		ND		ND
Biphenyl	6.7		2.1	J	2.5	J	2.7	
Acenaphthylene	1.9	J	0.6	J	2.2		0.7	J
Acenaphthene	9.3		0.8	J	1.0	J	0.3	J
Fluorene	12.8		1.2	J	1.4	J	1.2	J
C1-Fluorenes	15.3			ND		ND		ND
C2-Fluorenes	33.9			ND		ND		ND
C3-Fluorenes		ND		ND		ND		ND
Phenanthrene	55.3		5.0		5.4		5.4	
Anthracene	7.2			ND	0.6	J	0.6	J
C1-Phenanthrenes/Anthracenes	22.9			ND		ND	5.5	
C2-Phenanthrenes/Anthracenes	19.6			ND		ND	4.3	J
C3-Phenanthrenes/Anthracenes	10.5			ND		ND		ND
C4-Phenanthrenes/Anthracenes		ND		ND		ND		ND
Dibenzothiophene	5.7		0.6	J	0.3	J	0.5	J
C1-Dibenzothiophenes		ND		ND		ND		ND
C2-Dibenzothiophenes		ND		ND		ND		ND
C3-Dibenzothiophenes	8.2			ND		ND		ND
Fluoranthene	34.7		1.9	J	1.7	J	1.3	J
Pyrene	30.9		1.7	J	1.8	J	1.4	J
C1-Fluoranthenes/Pyrenes	16.6			ND		ND		ND
C2-Fluoranthenes/Pyrenes	12.1			ND		ND		ND
C3-Fluoranthenes/Pyrenes		ND		ND		ND		ND
Benzo(a)anthracene	5.0		0.8	J	0.6	J	0.5	J
Chrysene	6.5		0.4	J	0.7	J	1.3	J
C1-Chrysenes		ND		ND		ND		ND
C2-Chrysenes		ND		ND		ND		ND
C3-Chrysenes		ND		ND		ND		ND
C4-Chrysenes	23.6			ND		ND		ND
Benzo(b)fluoranthene	4.4		0.5	J	0.4	J	0.5	J
Benzo(k)fluoranthene	2.5		0.1	J	0.2	J	0.4	J
Benzo(e)pyrene	3.9		5.0		0.4	J	0.7	J
Benzo(a)pyrene	5.8		2.5	J	0.1	J		ND
Perylene	4.8		0.9	J	0.9	J	2.4	J
Indeno(1,2,3-c,d)pyrene	1.5	J		ND		ND		ND
Dibenzo(a,h)anthracene	1.4	J	10.1			ND		ND
Benzo(g,h,i)perylene	1.5	J	0.4	J		ND		ND
2-Methylnaphthalene	41.1		6.1		8.4		6.7	
1-Methylnaphthalene	30.8		4.7		5.6		4.8	
2,6-Dimethylnaphthalene	18.4		2.4	J	3.0	J	3.2	J
1,6,7-Trimethylnaphthalene	4.4		0.4	J	0.8	J	1.1	J
1-Methylphenanthrene	5.7		0.6	J	1.2	J	1.8	J

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics: Municipality of Anchorage

Client Sample ID	MOA09PAH005	MOA09PAH006	MOA09PAH007
Sample Descriptor			
Original Sample			
GERG ID	C62178	C62179	C62180
Sample Type	SAMP	SAMP	SAMP
SDG	J6692	J6692	J6692
Volume	1.06	1.04	1.01
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	M3603	M3603	M3603
Method	GCMS	GCMS	GCMS
Collection Date	06/24/09	06/24/09	06/23/09
Receive Date	06/26/09	06/26/09	06/26/09
Extraction Date	07/22/09	07/22/09	07/22/09
Analysis Date	08/01/09	08/01/09	08/01/09
Surrogate Compounds	**%Recovery**	**%Recovery**	**%Recovery**
d8-Naphthalene	85.8	91.0	99.5
d10-Acenaphthene	85.0	86.0	49.4
d10-Phenanthrene	89.3	95.2	52.2
d12-Chrysene	103.1	116.7	66.0
d12-Perylene	56.2	65.4	55.6
Total PAHs	**Concentration**	**Concentration**	**Concentration**
Total PAHs with Perylene	26.2	57.0	2776.4
Total PAHs without Perylene	24.8	57.0	2766.8
Total NS&T PAHs	20.3	39.3	1707.8

ND	Not Detected
J	<MDL
NA	Not Applicable
Q	Results Outside QC
I	Interference
B	Blank Contamination >3xMDL
D	Dilution

Kinnetics: Municipality of Anchorage

Client Sample ID	MOA09PAH005		MOA09PAH006		MOA09PAH007	
Sample Descriptor						
Original Sample						
GERG ID	C62178		C62179		C62180	
Sample Type	SAMP		SAMP		SAMP	
SDG	J6692		J6692		J6692	
PAH Compounds	**Concentration**		**Concentration**		**Concentration**	
Naphthalene	4.8		10.9		137.2	
C1-Naphthalenes	4.5	J	9.0		88.8	
C2-Naphthalenes	4.2	J	6.1	J	58.4	
C3-Naphthalenes	2.4	J	3.8	J	66.2	
C4-Naphthalenes		ND		ND	54.0	
Biphenyl	0.8	J	2.1	J	45.0	
Acenaphthylene	0.6	J	8.9		6.1	
Acenaphthene		ND	0.7	J	70.6	
Fluorene	0.8	J	3.5		89.5	
C1-Fluorenes		ND	2.9	J	69.4	
C2-Fluorenes		ND		ND	133.7	
C3-Fluorenes		ND		ND	59.9	
Phenanthrene	2.0		2.8		428.2	
Anthracene	0.3	J		ND	45.7	
C1-Phenanthrenes/Anthracenes		ND		ND	110.8	
C2-Phenanthrenes/Anthracenes		ND		ND	70.1	
C3-Phenanthrenes/Anthracenes		ND		ND	57.0	
C4-Phenanthrenes/Anthracenes		ND		ND		ND
Dibenzothiophene		ND		ND	32.8	
C1-Dibenzothiophenes		ND		ND	42.9	
C2-Dibenzothiophenes		ND		ND	47.4	
C3-Dibenzothiophenes		ND		ND	41.7	
Fluoranthene	0.9	J	2.2	J	309.1	
Pyrene	0.7	J	2.7	J	251.4	
C1-Fluoranthenes/Pyrenes		ND		ND	130.3	
C2-Fluoranthenes/Pyrenes		ND		ND	62.1	
C3-Fluoranthenes/Pyrenes		ND		ND		ND
Benzo(a)anthracene	0.7	J	0.6	J	48.8	
Chrysene	0.5	J	0.5	J	47.2	
C1-Chrysenes		ND		ND	26.6	
C2-Chrysenes		ND		ND		ND
C3-Chrysenes		ND		ND		ND
C4-Chrysenes		ND		ND		ND
Benzo(b)fluoranthene	0.5	J		ND	34.1	
Benzo(k)fluoranthene	0.4	J		ND	18.8	
Benzo(e)pyrene		ND		ND	25.6	
Benzo(a)pyrene		ND		ND	38.5	
Perylene	1.4	J		ND	9.6	
Indeno(1,2,3-c,d)pyrene		ND		ND	7.9	
Dibenzo(a,h)anthracene	0.8	J	0.3	J		ND
Benzo(g,h,i)perylene		ND		ND	11.3	
2-Methylnaphthalene	2.8	J	6.1		50.2	
1-Methylnaphthalene	1.7	J	2.9	J	38.7	
2,6-Dimethylnaphthalene	1.1	J	2.0	J	45.6	
1,6,7-Trimethylnaphthalene	0.3	J	0.6	J	12.0	
1-Methylphenanthrene	1.2	J	2.0	J	27.1	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Aromatic Hydrocarbon

QC Data

M3603

Kinnetics: Municipality of Anchorage

Client Sample ID				
Sample Descriptor	Proc Blank	Blank Spike	Blank Spike Dup	
Original Sample				
GERG ID	Q24730	Q24731	Q24732	
Sample Type	BLANK	LBS	LBSD	MSDRPD
SDG				
Volume	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	M3603	M3603	M3603	
Method	GCMS	GCMS	GCMS	
Collection Date				
Receive Date				
Extraction Date	07/22/09	07/22/09	07/22/09	
Analysis Date	08/01/09	08/01/09	08/01/09	
Surrogate Compounds	**% Recovery**	**% Recovery**	**% Recovery**	
d8-Naphthalene	87.0	88.5	86.2	
d10-Acenaphthene	85.1	87.8	86.9	
d10-Phenanthrene	91.3	92.1	88.0	
d12-Chrysene	114.6	112.0	107.5	
d12-Perylene	65.6	72.0	75.1	
Total PAHs	**Concentration**	**Concentration**	**Concentration**	
Total PAHs with Perylene	35.0	NA	NA	
Total PAHs without Perylene	33.1	NA	NA	
Total NS&T PAHs	23.6	NA	NA	

ND	Not Detected
J	<MDL
NA	Not Applicable
Q	Results Outside QC
I	Interference
B	Blank Contamination >3xMDL
D	Dilution

Kinnetics: Municipality of Anchorage

Client Sample ID				
Sample Descriptor	Proc Blank	Blank Spike	Blank Spike Dup	
Original Sample				
GERG ID	Q24730	Q24731	Q24732	
Sample Type	BLANK	LBS	LBSD	MSDRPD
SDG				

PAH Compounds	**Concentration**		**% Recovery**	**% Recovery**	**RPD**
Naphthalene		ND			
C1-Naphthalenes	2.9	J			
C2-Naphthalenes		ND			
C3-Naphthalenes		ND			
C4-Naphthalenes		ND			
Biphenyl		ND	98.8	97.8	1.1
Acenaphthylene	3.8	<3xMDL	87.8	85.5	2.6
Acenaphthene		ND	89.6	86.3	3.7
Fluorene	1.7	J	94.2	91.8	2.6
C1-Fluorenes		ND			
C2-Fluorenes		ND			
C3-Fluorenes		ND			
Phenanthrene	4.5	<3xMDL	81.8	83.0	1.4
Anthracene	0.9	J	95.7	93.6	2.2
C1-Phenanthrenes/Anthracenes	4.6	J			
C2-Phenanthrenes/Anthracenes		ND			
C3-Phenanthrenes/Anthracenes		ND			
C4-Phenanthrenes/Anthracenes		ND			
Dibenzothiophene	1.5	<3xMDL	83.9	84.6	0.9
C1-Dibenzothiophenes		ND			
C2-Dibenzothiophenes		ND			
C3-Dibenzothiophenes		ND			
Fluoranthene	2.0	J	103.6	104.8	1.2
Pyrene	1.7	J	105.5	111.0	5.0
C1-Fluoranthenes/Pyrenes		ND			
C2-Fluoranthenes/Pyrenes		ND			
C3-Fluoranthenes/Pyrenes		ND			
Benzo(a)anthracene	1.3	J	88.7	86.8	2.1
Chrysene	1.8	J	96.4	96.6	0.2
C1-Chrysenes		ND			
C2-Chrysenes		ND			
C3-Chrysenes		ND			
C4-Chrysenes		ND			
Benzo(b)fluoranthene	1.5	J	80.9	83.3	2.9
Benzo(k)fluoranthene	1.4	J	96.8	99.1	2.3
Benzo(e)pyrene	0.8	J	87.4	87.6	0.2
Benzo(a)pyrene	1.1	J	81.5	83.5	2.5
Perylene	1.9	J	97.4	96.0	1.4
Indeno(1,2,3-c,d)pyrene		ND	64.8	64.2	0.9
Dibenzo(a,h)anthracene	0.8	J	60.2	62.1	3.0
Benzo(g,h,i)perylene	0.7	J	61.5	67.2	8.8
2-Methylnaphthalene		ND	88.3	88.6	0.3
1-Methylnaphthalene	2.9	J	94.6	94.3	0.4
2,6-Dimethylnaphthalene		ND	85.0	84.0	1.3
1,6,7-Trimethylnaphthalene		ND	84.8	86.7	2.2
1-Methylphenanthrene	2.2	J	93.3	94.7	1.6
			Avg %Rec.	**Avg %Rec.**	**Avg RPD**
			87.6	**88.0**	**2.1**

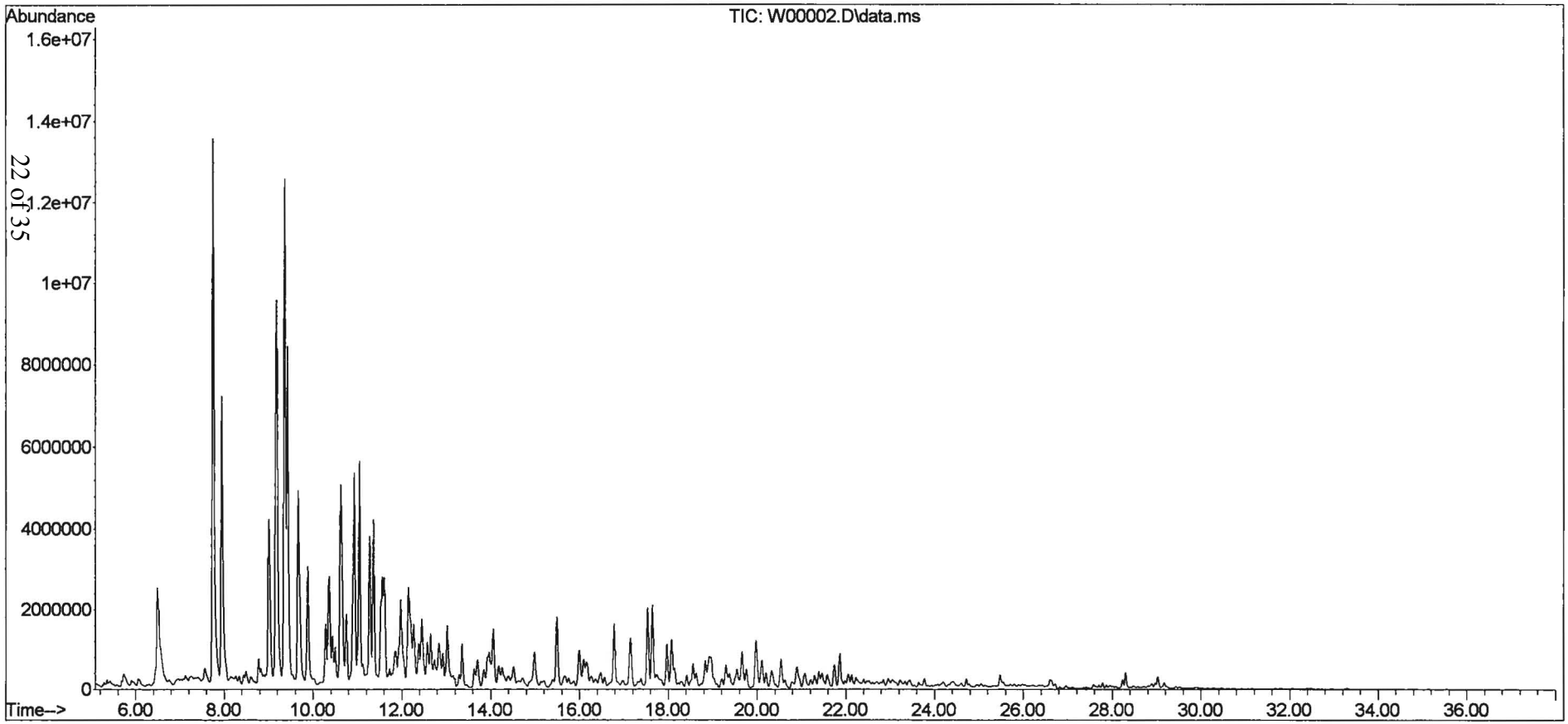
ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Total Ion Chromatograms
For PAH Analyses

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : W00002.D
Acq On : 31 Jul 2009 12:02 pm
Operator : Mackan
Sample : GERG OIL
Misc :
ALS Vial : 2 Sample Multiplier: 1

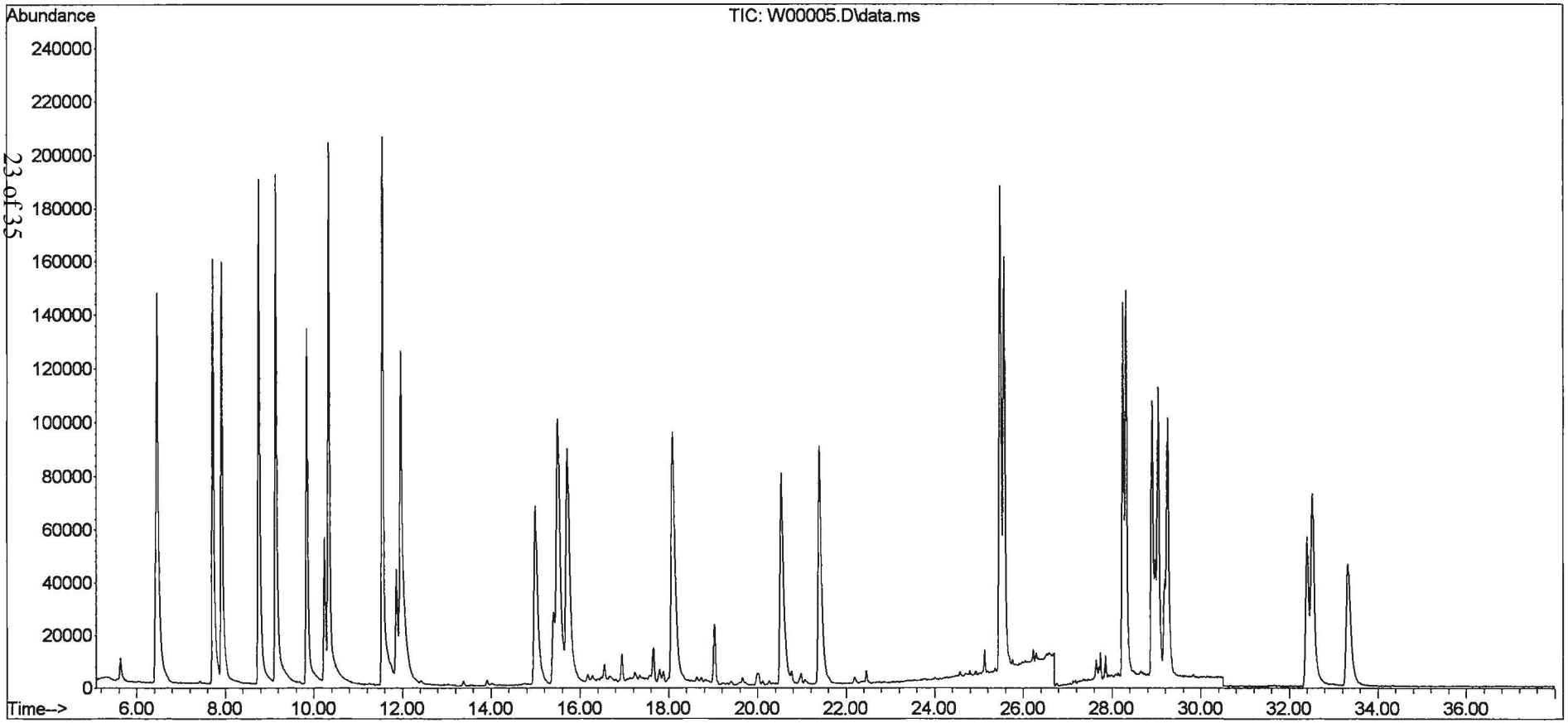
Quant Time: Jul 31 13:23:18 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : W00005.D
Acq On : 1 Aug 2009 7:22 am
Operator : Mackan
Sample : CAL 250
Misc :
ALS Vial : 3 Sample Multiplier: 1

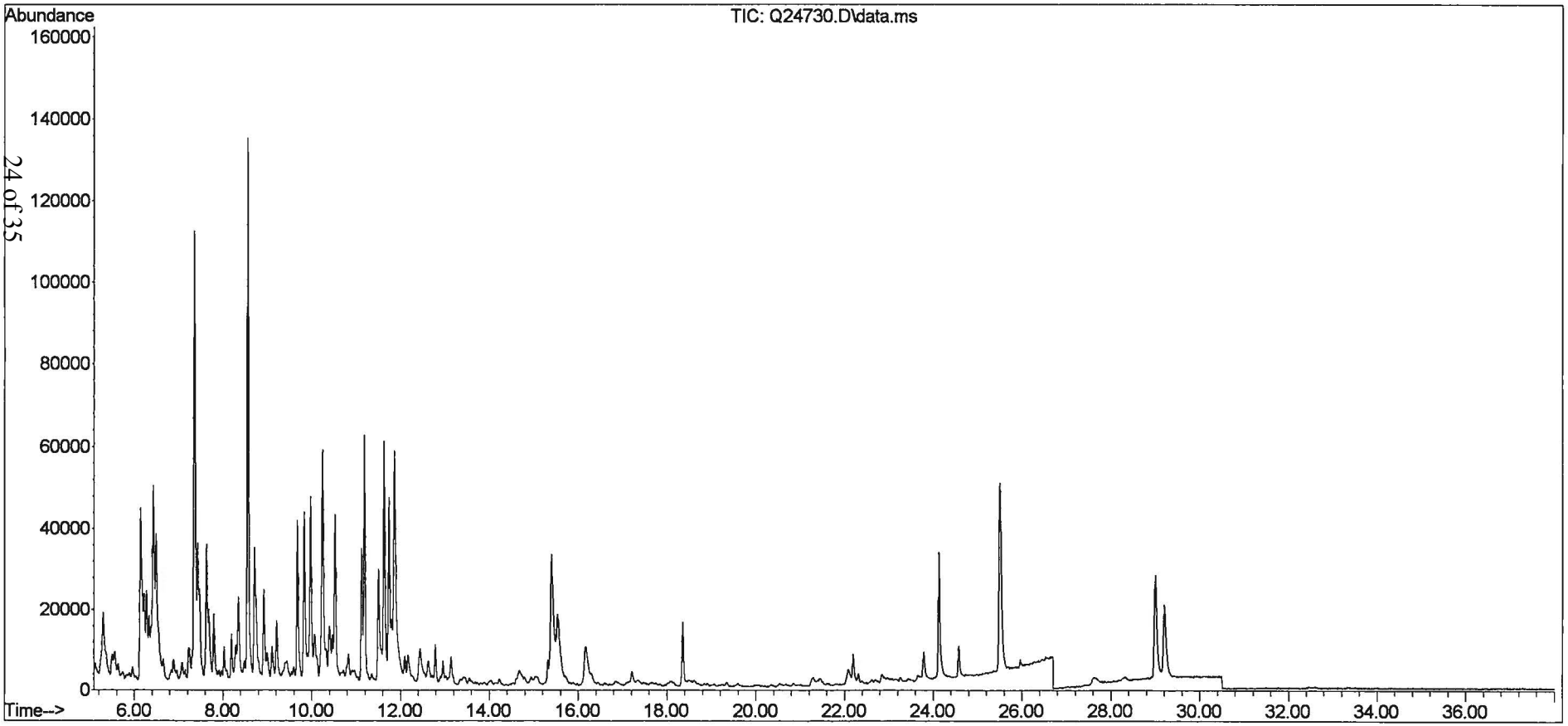
Quant Time: Aug 06 10:42:01 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : Q24730.D
Acq On : 1 Aug 2009 9:31 am
Operator : Mackan
Sample : BLANK
Misc :
ALS Vial : 30 Sample Multiplier: 1

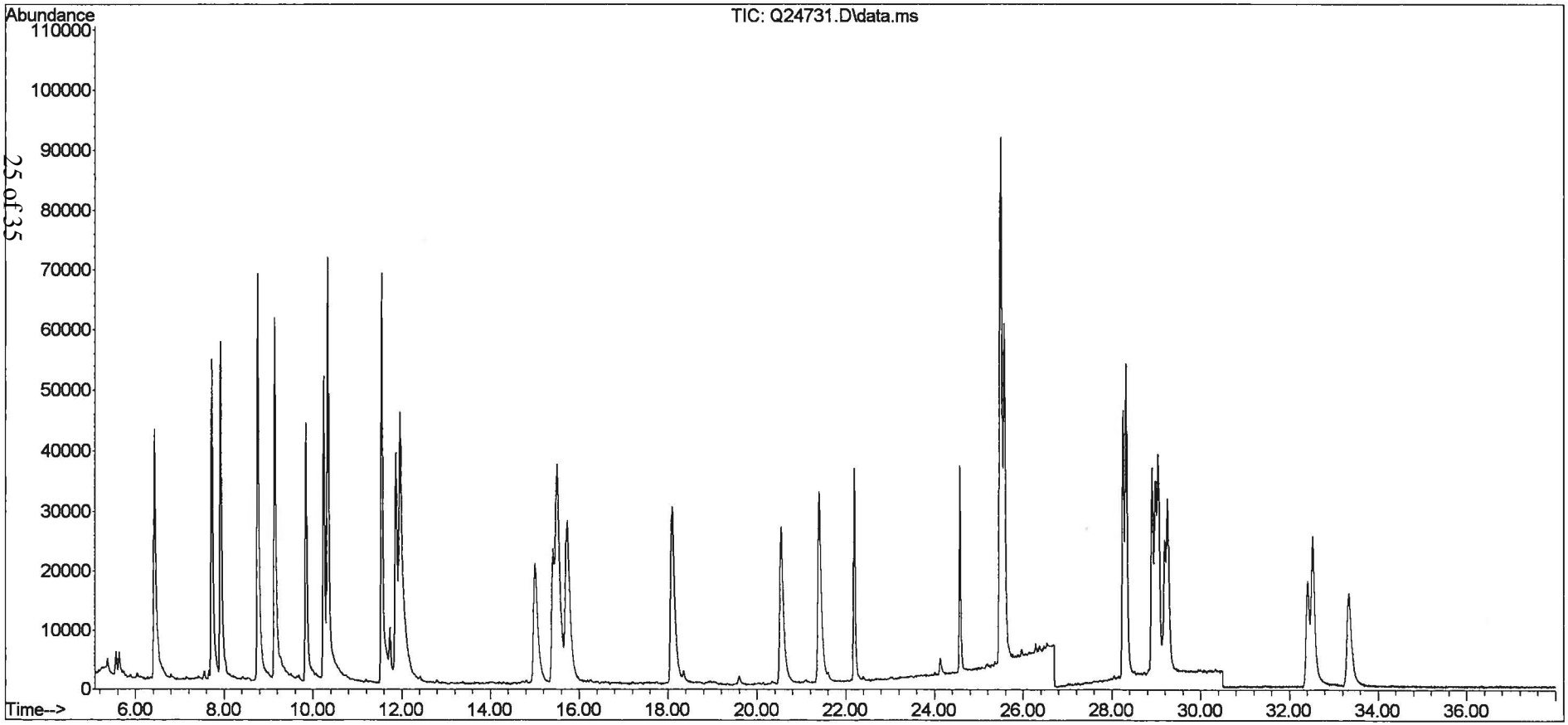
Quant Time: Aug 06 10:32:01 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : Q24731.D
Acq On : 1 Aug 2009 10:14 am
Operator : Mackan
Sample : LBS
Misc :
ALS Vial : 31 Sample Multiplier: 1

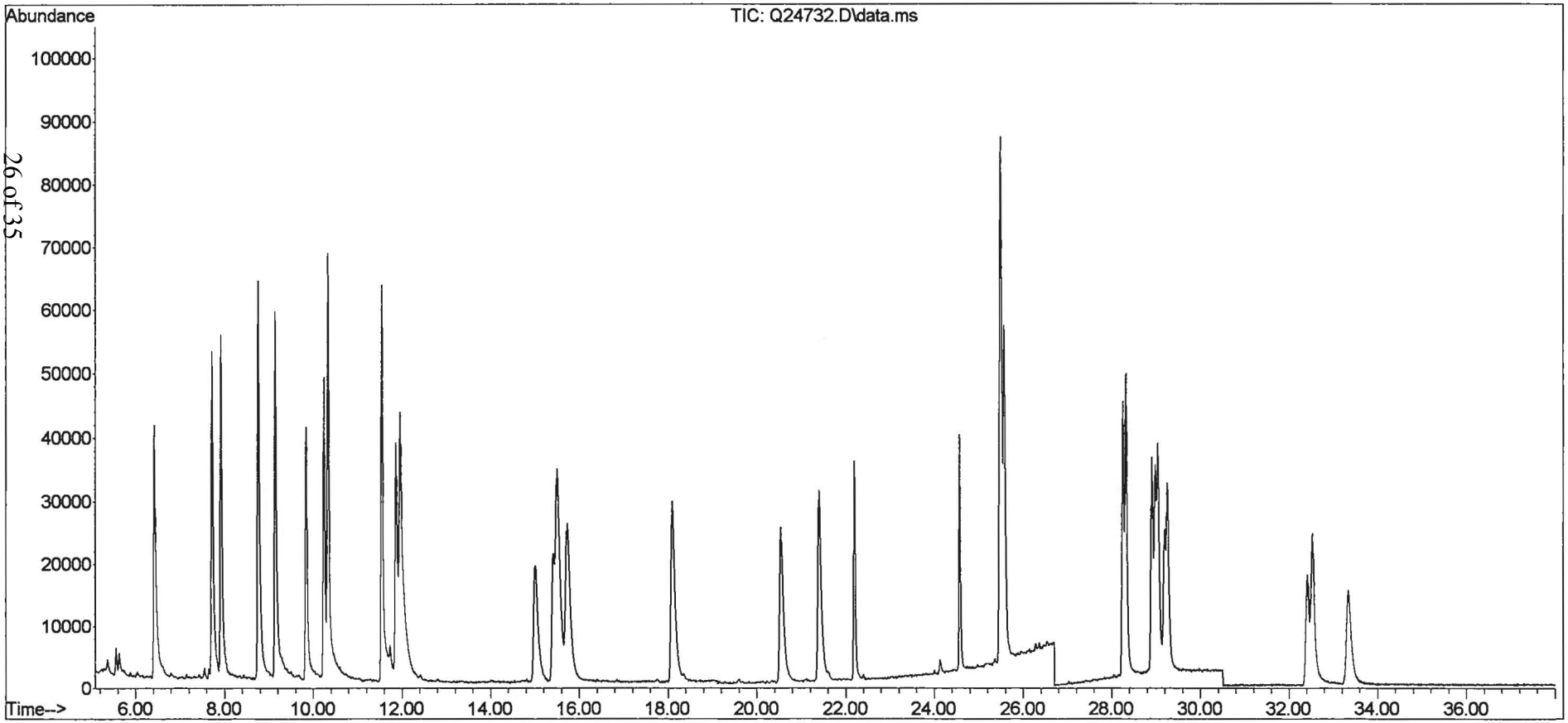
Quant Time: Aug 05 10:20:02 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : Q24732.D
Acq On : 1 Aug 2009 10:57 am
Operator : Mackan
Sample : LBSD
Misc :
ALS Vial : 32 Sample Multiplier: 1

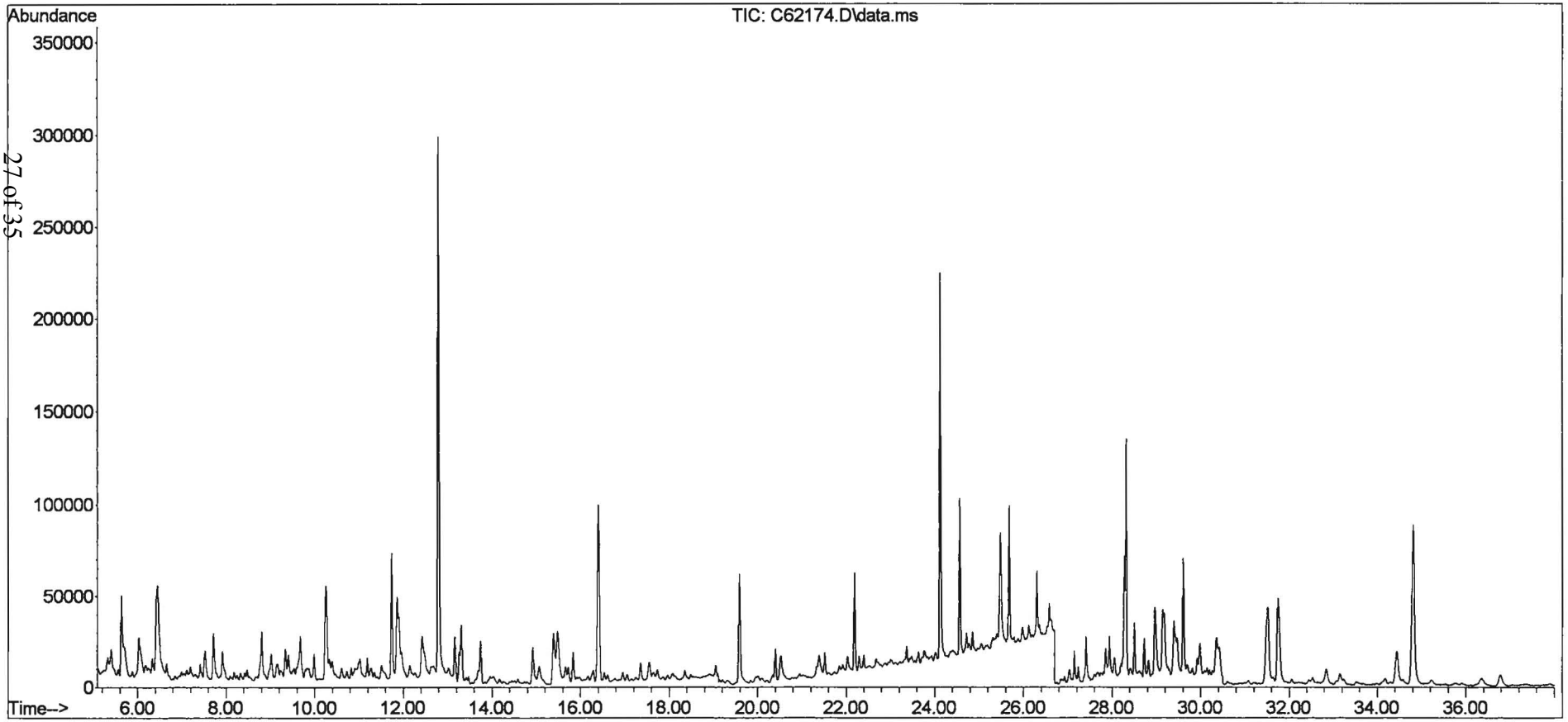
Quant Time: Aug 05 10:38:31 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62174.D
Acq On : 1 Aug 2009 11:40 am
Operator : Mackan
Sample : MOA09PAH001
Misc :
ALS Vial : 33 Sample Multiplier: 0.943396

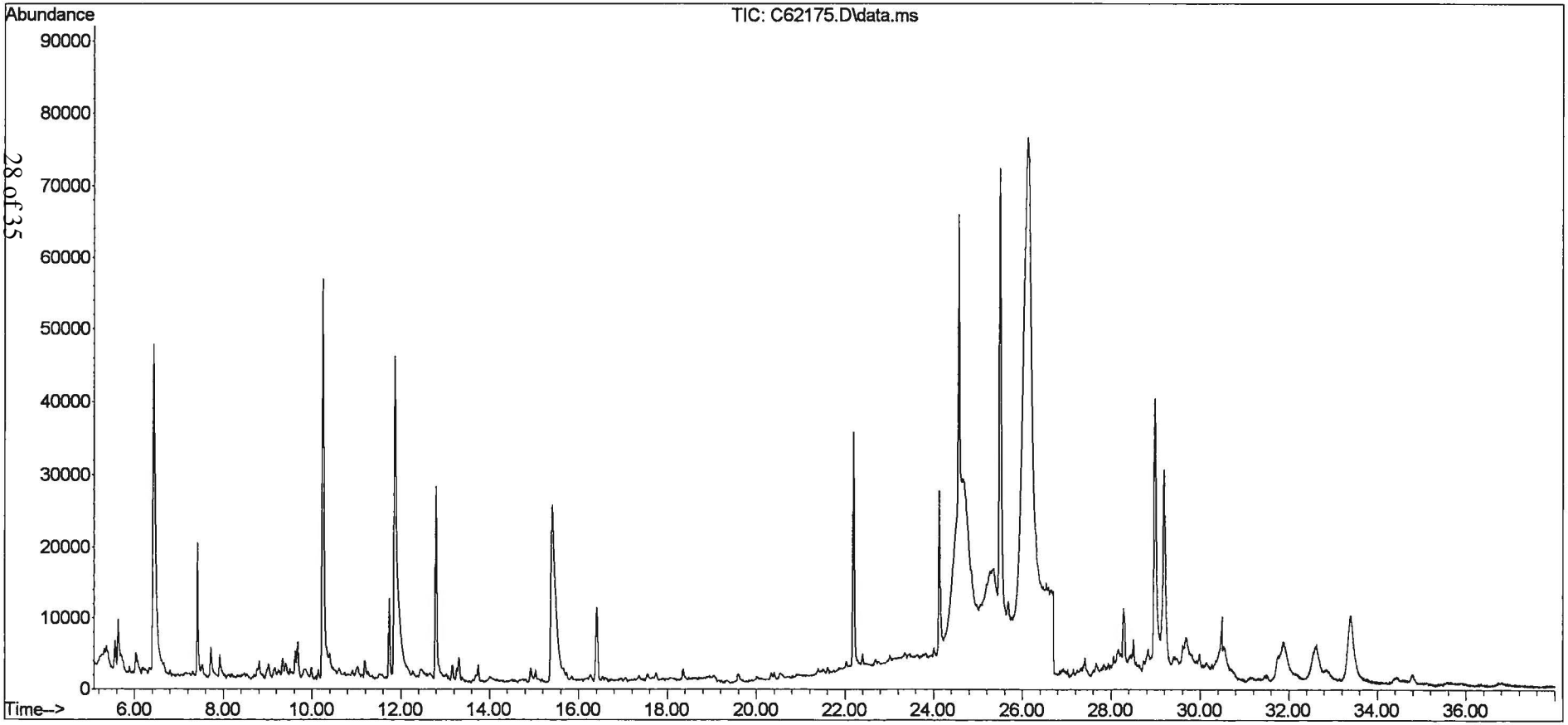
Quant Time: Aug 05 13:54:03 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62175.D
Acq On : 1 Aug 2009 12:23 pm
Operator : Mackan
Sample : MOA09PAH002
Misc :
ALS Vial : 34 Sample Multiplier: 0.934579

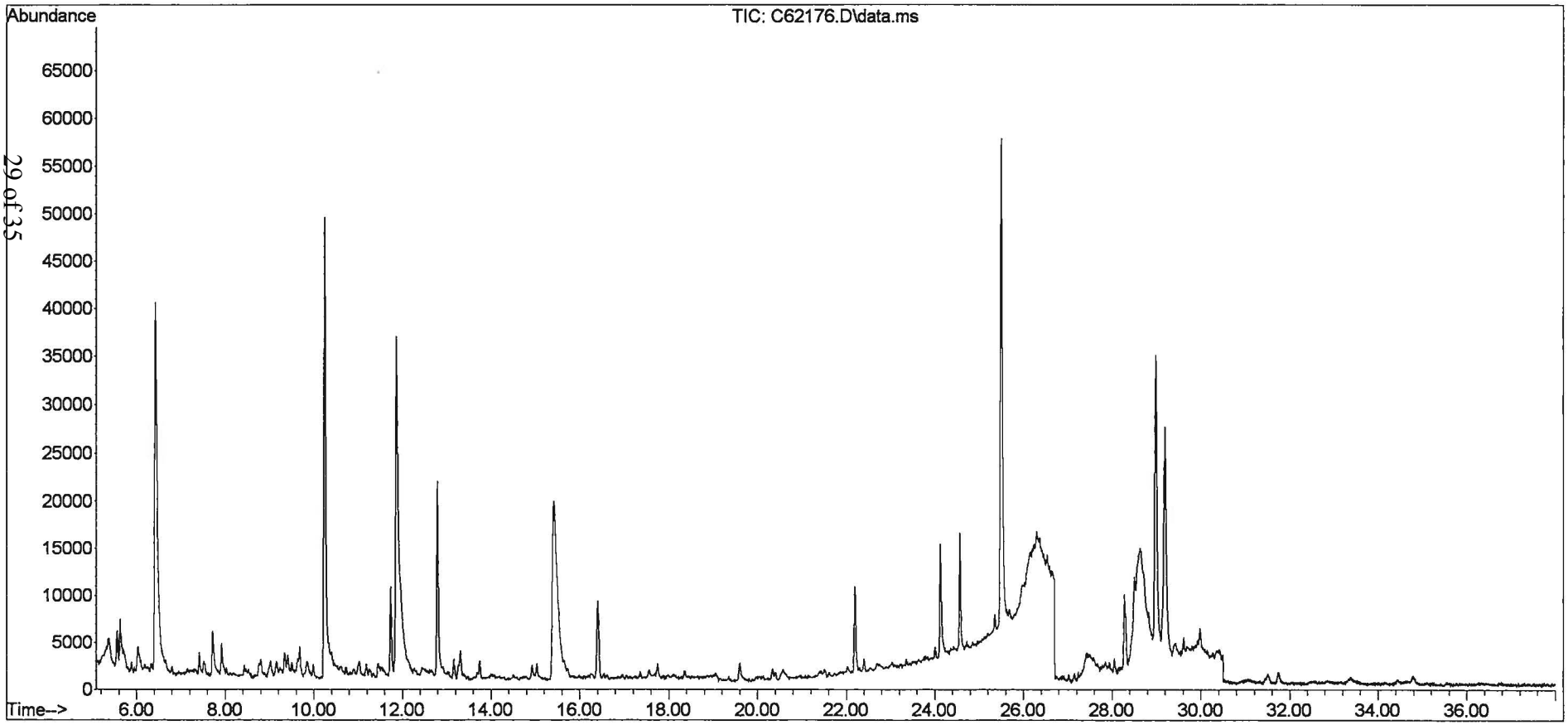
Quant Time: Aug 05 12:19:57 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62176.D
Acq On : 1 Aug 2009 1:06 pm
Operator : Mackan
Sample : MOA09PAH003
Misc :
ALS Vial : 35 Sample Multiplier: 0.943396

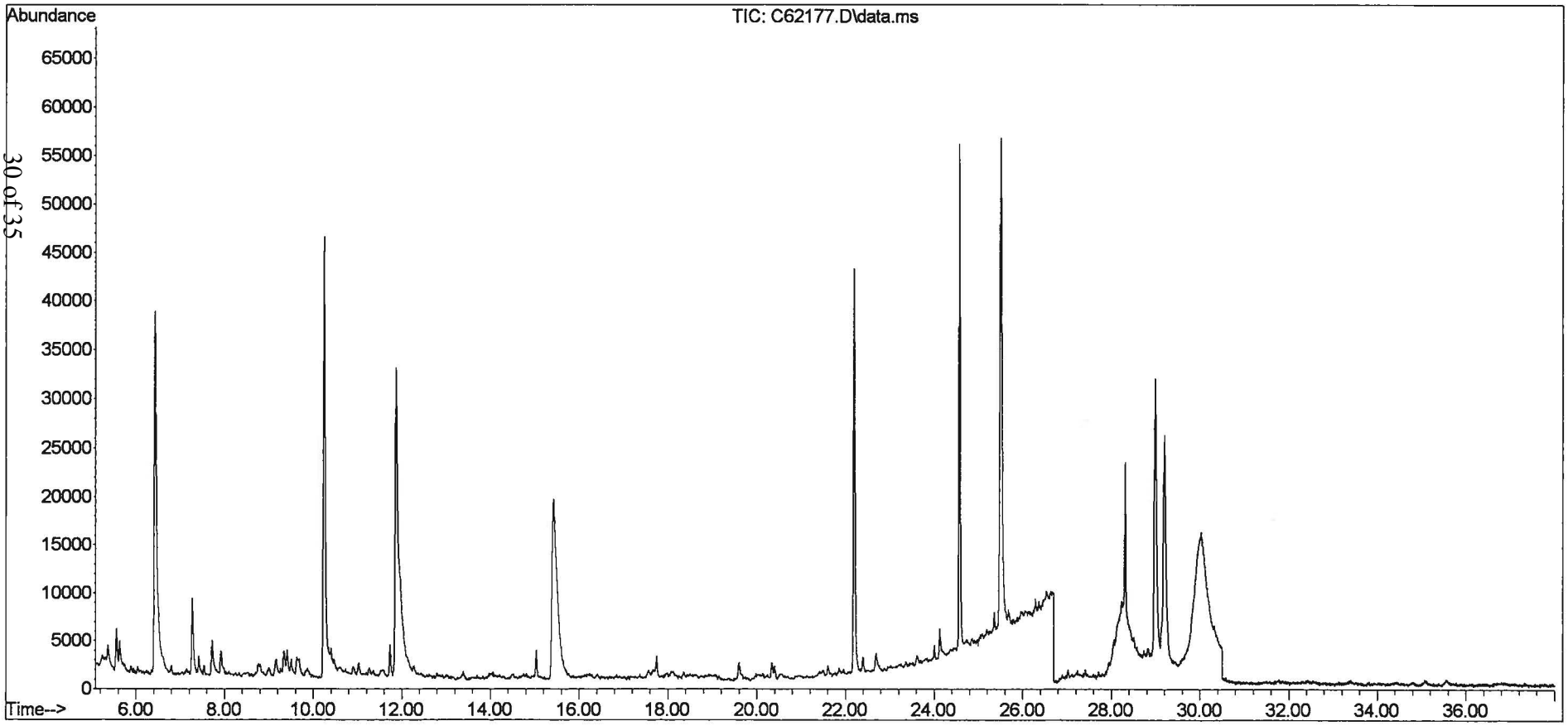
Quant Time: Aug 05 12:39:31 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62177.D
Acq On : 1 Aug 2009 1:49 pm
Operator : Mackan
Sample : MOA09PAH004
Misc :
ALS Vial : 36 Sample Multiplier: 0.943396

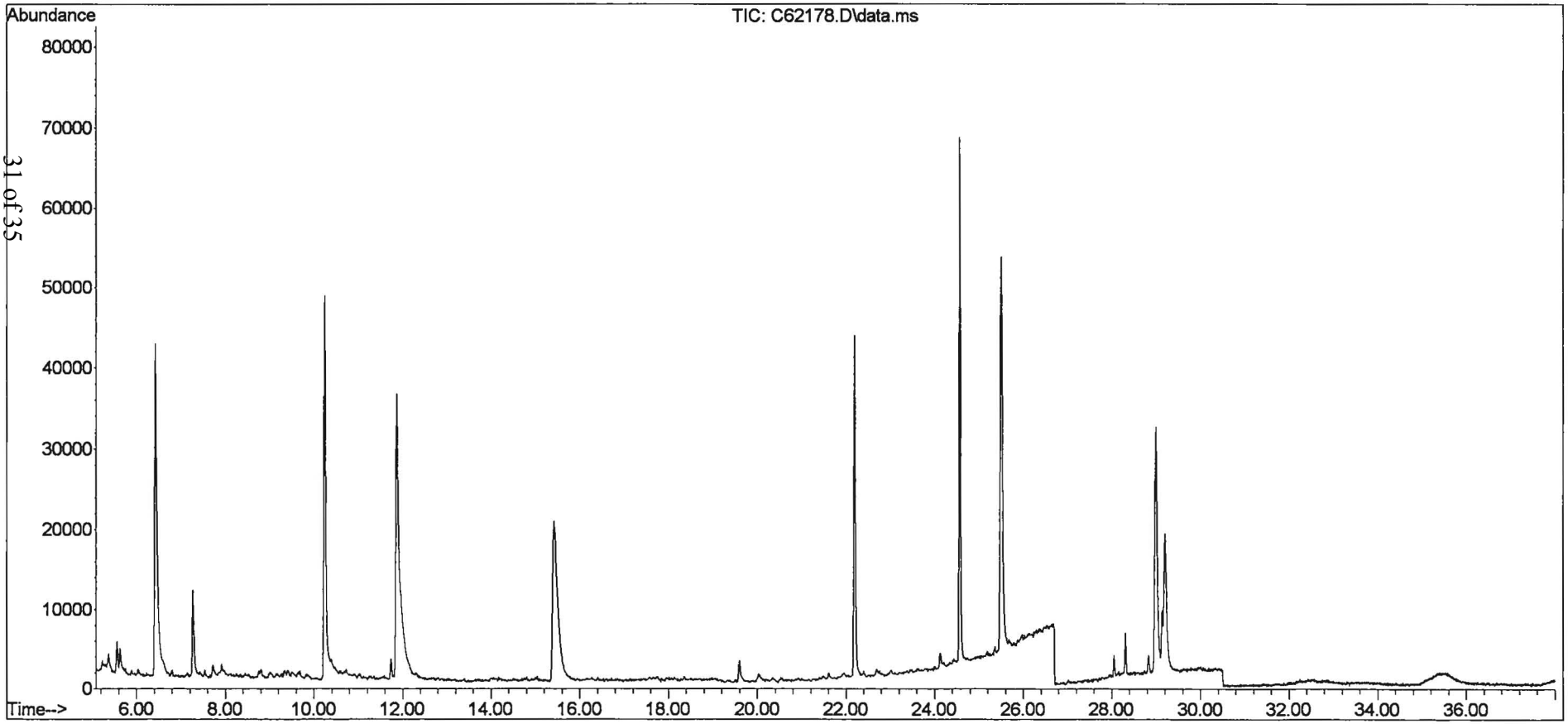
Quant Time: Aug 05 12:53:17 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62178.D
Acq On : 1 Aug 2009 2:32 pm
Operator : Mackan
Sample : MOA09PAH005
Misc :
ALS Vial : 37 Sample Multiplier: 0.943396

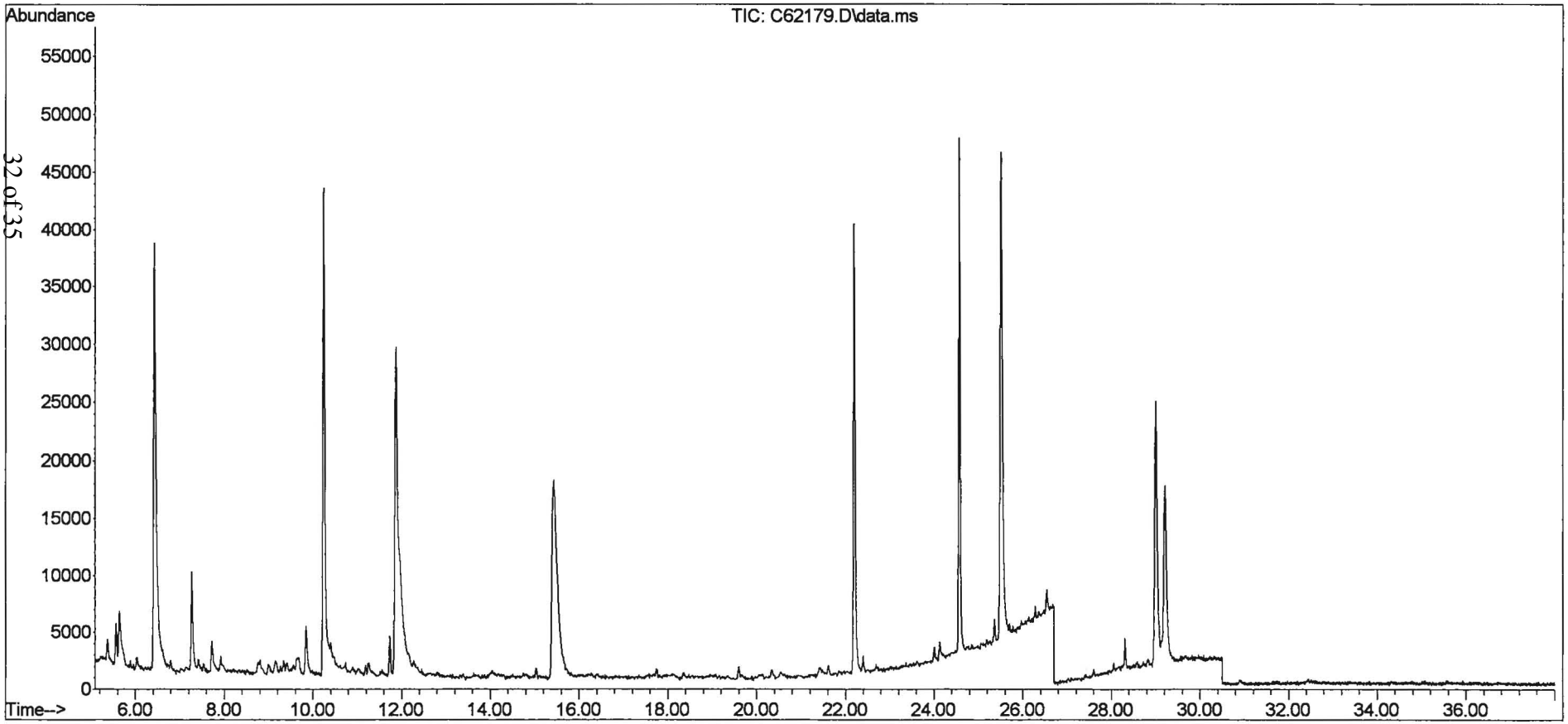
Quant Time: Aug 05 13:09:51 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62179.D
Acq On : 1 Aug 2009 3:15 pm
Operator : Mackan
Sample : MOA09PAH006
Misc :
ALS Vial : 38 Sample Multiplier: 0.961538

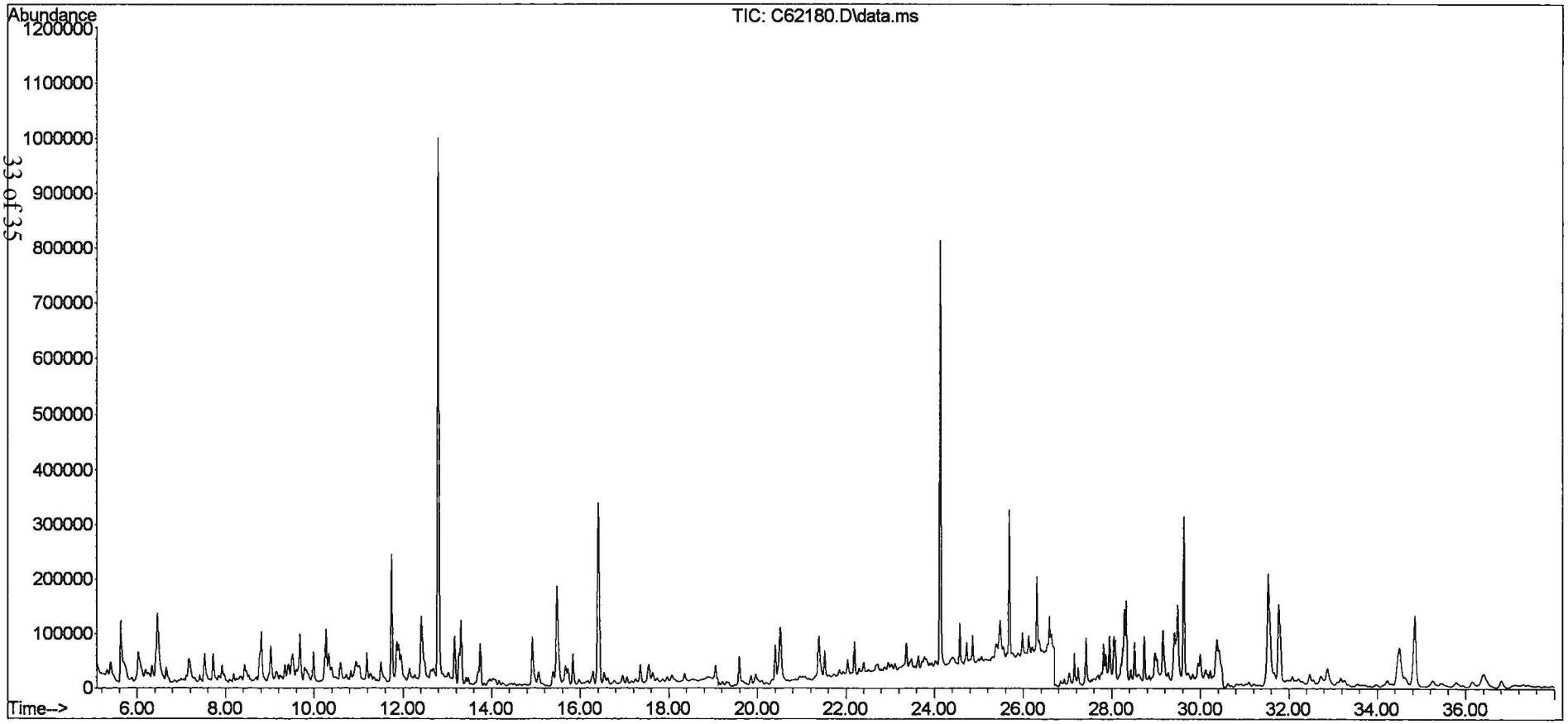
Quant Time: Aug 05 13:21:45 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : C62180.D
Acq On : 1 Aug 2009 3:58 pm
Operator : Mackan
Sample : MOA09PAH007
Misc :
ALS Vial : 39 Sample Multiplier: 0.990099

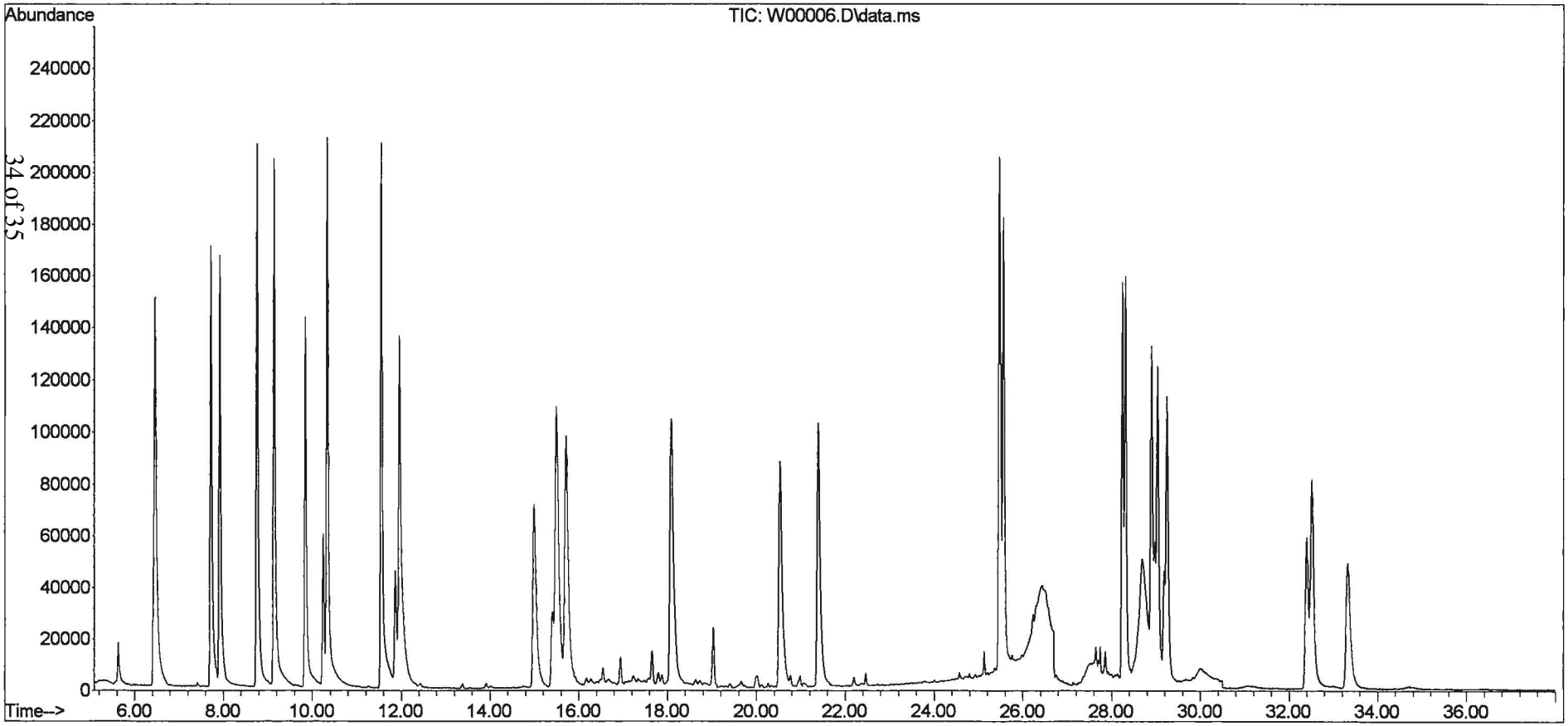
Quant Time: Aug 05 13:52:01 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\M3582AR\
Data File : W00006.D
Acq On : 1 Aug 2009 5:24 pm
Operator : Mackan
Sample : CAL 250
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 15:34:09 2009
Quant Method : C:\MSDCHEM\1\METHODS\AR7069M1.M
Quant Title : Calibration of polynuclear aromatic hydrocarbons (Mon Jul 06 14:32:28 2009
QLast Update : Mon Jul 06 14:32:28 2009
Response via : Initial Calibration



This is the last page of this report

APPENDIX C

Receiving Water Quality Monitoring

C4 Trace Metals

Battelle

RECEIVING WATER, TRACE METALS

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA09MTL001	F1-1S	SAMPLE
MOA09MTL002	F1-2S	SAMPLE
MOA09MTL003	F1-3S	SAMPLE
MOA09MTL004	C1-1S	SAMPLE
MOA09MTL005	C1-2S	SAMPLE
MOA09MTL006	C1-3S	SAMPLE
MOA09MTL007	EFFLUENT	SAMPLE

Battelle
The Business *of* Innovation

Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Telephone: (360) 681-3627
Facsimile: (360) 681-3699

August 6, 2009

Mr. Tim Mayers
Kinnetic Laboratories, Inc.
Oceanographic and Environmental Consulting
Alaska Regional Office
1102 West 7th Avenue
Anchorage, AK 99501

Dear Tim:

Enclosed are final results for trace metals in seawater and effluent samples received from Kinnetic Laboratories on June 25 and 26, 2009. Samples were received in good condition with cooler temperatures of 4.2 and 4.7°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.

Chromium, Ni, Cu, Zn and Pb were detected in the Fe/Pd blank at concentrations less than 5x the MDL. Zinc and Ag were detected in the TRM blank. Silver was detected at a concentration less than 5x the MDL. Zinc was detected at a concentration greater than 5x the MDL. The TRM sample concentration of Zn was greater than 10x the blank concentration, therefore, no corrective action was taken. Other metals were undetected in the blanks. 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, 2009, 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 8/6/09

CONCENTRATIONS OF METALS IN SEAWATER and EFFLUENT SAMPLES
Samples Received: 06/25-26/09
(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*93		MOA09MTL007	TRM	Total	3.32	4.13	42.2	85.4	1.84	1.19	0.253	2.27	0.0874
1672*94		MOA09MTL001	Fe/Pd	Total	15.1	14.8	21.0	49.5	7.98	0.174	0.132	3.99	0.0314
1672*95		MOA09MTL002	Fe/Pd	Total	15.4	14.9	21.1	49.6	6.23	0.173	0.138	3.85	0.0282
1672*96		MOA09MTL003	Fe/Pd	Total	12.1	11.6	14.6	32.7	5.92	0.0699	0.112	3.35	0.0190
1672*97		MOA09MTL007	Direct	Dissolved	2.63	3.40	27.2	42.4	1.47	0.141	0.118	0.358	0.0125
1672*98		MOA09MTL001	Fe/Pd	Dissolved	0.0805	1.01	4.08	3.37	1.73	0.00676	0.0758	0.0144	0.000502
1672*99		MOA09MTL002	Fe/Pd	Dissolved	0.0693	0.996	1.42	0.887	1.54	0.00314	0.0682	0.00247	0.000337
1672*100		MOA09MTL003	Fe/Pd	Dissolved	0.0733	1.01	1.69	0.769	1.10	0.00160	0.0649	0.00608	0.000440
1672*101		MOA09MTL004	Fe/Pd	Total	25.4	23.5	29.3	67.9	12.8	0.119	0.151	7.81	0.0535
1672*102		MOA09MTL005	Fe/Pd	Total	12.4	11.9	14.8	33.2	6.63	0.0591	0.0959	3.65	0.0208
1672*103		MOA09MTL006	Fe/Pd	Total	28.6	26.2	33.6	82.1	14.7	0.143	0.165	10.0	0.0802
1672*104		MOA09MTL004	Fe/Pd	Dissolved	0.0657	0.922	1.02	0.386	1.36	0.00431	0.0497	0.00445	0.000330
1672*105		MOA09MTL005	Fe/Pd	Dissolved	0.0652	0.864	0.930	0.299	1.38	0.00170	0.0505	0.00446	0.000232
1672*106		MOA09MTL006	Fe/Pd	Dissolved	0.0678	0.992	2.01	2.26	1.34	0.00366	0.0655	0.0324	0.000485
PROCEDURAL BLANK			**Fe/Pd**	**Total/Diss**	0.106	0.0241	0.0375	0.0782	NA	0.005 U	0.002 U	0.00410	NA
			Direct	**Dissolved**	0.019 U	0.007 U	0.037 U	0.033 U	0.027 U	0.003 U	0.006 U	0.003 U	0.00010 U
			TRM	**Total**	0.051 U	0.011 U	0.006 U	0.577	0.027 U	0.00785	0.004 U	0.003 U	0.00010 U
METHOD DETECTION LIMIT			**Fe/Pd**	**Total/Diss**	**0.030**	**0.023**	**0.036**	**0.027**	**NA**	**0.005**	**0.002**	**0.002**	**NA**
			Direct	**Dissolved**	**0.019**	**0.007**	**0.037**	**0.033**	**0.027**	**0.003**	**0.006**	**0.003**	**0.00010**
			TRM	**Total**	**0.051**	**0.011**	**0.006**	**0.014**	**0.027**	**0.004**	**0.004**	**0.003**	**0.00010**
STANDARD REFERENCE MATERIAL													
1640			TRM	Total	36.2	26.3	83.5	53.3	NA	6.09	22.9	29.0	NA
1640			Direct	Dissolved	37.1	26.6	85.5	54.9	NA	6.32	22.9	29.5	NA
1640		certified value			38.6	27.4	85.2	53.2	26.7	7.62	22.8	27.9	NC
1640		range			±1.6	±0.8	±1.2	±1.1	±0.41	±0.25	±0.96	±0.14	NC
1640		**% difference**	**TRM**	**Total**	**6%**	**4%**	**2%**	**0%**	**N/A**	**20%**	**1%**	**4%**	NA
1640		**% difference**	**Direct**	**Dissolved**	**4%**	**3%**	**0%**	**3%**	**N/A**	**17%**	**0%**	**6%**	**N/A**

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: 06/25-26/09
(concentrations in μg/L - not blank corrected)

8/6/09

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-4			Fe/Pd		0.155	NA	0.633	NA	1.03	NA	NA	0.00832	NA
CASS-4		certified value			0.144	NA	0.592	NA	1.11	NC	NC	0.0098	NA
CASS-4		range			±0.029	NA	±0.055	NA	±0.16	NC	NC	±0.0036	NA
		% difference			**8%**	**N/A**	**7%**	**N/A**	**7%**	**N/A**	**N/A**	**15%**	**N/A**
SLEW-3			Fe/Pd		NA	1.25	NA	0.252	NA	NA	0.0502	NA	NA
SLEW-3		certified value			NA	1.23	NA	0.201	NA	NC	0.0480	NA	NA
SLEW-3		range			NA	±0.070	NA	±0.037	NA	NC	±0.004	NA	NA
		% difference			**N/A**	**1%**	**N/A**	**25%**	**N/A**	**N/A**	**5%**	**N/A**	**N/A**
1641d			Total		NA	NA	NA	NA	NA	NA	NA	NA	1651
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**	**4%**
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			0.113	0.105	0.106	0.101	NA	0.0925	0.0920	0.104	NA
		Percent Recovery			**113%**	**105%**	**106%**	**101%**	**N/A**	**92%**	**92%**	**104%**	**N/A**
HIGH LEVEL STANDARD (Supports Effluent analysis only)													
		Amount Spiked			400	400	400	400	NA	0.300	400	400	NA
		Amount Recovered			379	379	371	374	NA	0.292	376	385	NA
		Percent Recovery			**95%**	**95%**	**93%**	**93%**	**N/A**	**97%**	**94%**	**96%**	**N/A**
LABORATORY CONTROL STANDARD													
		Amount Spiked			NA	NA	NA	NA	5.00	NA	NA	NA	0.00496
		Amount Recovered			NA	NA	NA	NA	5.00	NA	NA	NA	0.00509
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**100%**	**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: 06/25-26/09
(concentrations in μg/L - not blank corrected)

8/6/09

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	NA	NA	NA	NA	0.119
		1672*95	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.0282
		1672*95 + Spike R1	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.151
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.123
		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	0.119
		1672*95	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.0282
		1672*95 + Spike R2	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.149
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.121
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**102%**
		Amount Spiked			5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	NA
		1672*98	Fe/Pd	Dissolved	0.0805	1.01	4.08	3.37	1.73	0.00676	0.0758	0.0144	NA
		1672*98 + Spike R1	Fe/Pd	Dissolved	4.98	5.77	8.96	7.97	6.50	4.95	4.59	4.69	NS
		Amount Recovered			4.90	4.75	4.88	4.60	4.77	4.94	4.52	4.67	NA
		Percent Recovery			**98%**	**95%**	**98%**	**92%**	**95%**	**99%**	**90%**	**93%**	**N/A**
		Amount Spiked			5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	NA
		1672*98	Fe/Pd	Dissolved	0.0805	1.01	4.08	3.37	1.73	0.00676	0.0758	0.0144	NA
		1672*98 + Spike R2	Fe/Pd	Dissolved	5.00	5.74	8.88	7.87	6.58	4.95	4.58	4.62	NS
		Amount Recovered			4.91	4.73	4.80	4.50	4.85	4.95	4.50	4.61	NA
		Percent Recovery			**98%**	**95%**	**96%**	**90%**	**97%**	**99%**	**90%**	**92%**	**N/A**
		Amount Spiked			NA	NA	NA	NA	NA	NA	NA	NA	0.0134
		1672*105	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.000232
		1672*105 + Spike R1	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.0145
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.0143
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**106%**
		Amount Spiked			NA	NA	NA	NA	NA	NA	NA	NA	0.0137
		1672*105	Fe/Pd	Dissolved	NA	NA	NA	NA	NA	NA	NA	NA	0.000232
		1672*105 + Spike R2	Fe/Pd	Dissolved	NS	NS	NS	NS	NS	NS	NS	NS	0.0150
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.0148
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**108%**

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: 06/25-26/09
(concentrations in μg/L - not blank corrected)

8/6/09

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*96	1	MOA09MTL003	Fe/Pd	Total	12.1	11.6	14.6	32.7	5.92	0.0699	0.112	3.35	0.0190
1672*96	2	MOA09MTL003	Fe/Pd	Total	11.2	10.9	14.4	30.9	NA	0.0648	0.107	3.09	NA
		% difference			**8%**	**7%**	**2%**	**6%**	**N/A**	**8%**	**5%**	**8%**	**N/A**
1672*97		MOA09MTL007	Direct	Dissolved	2.63	3.40	27.2	42.4	1.47	0.141	0.118	0.358	0.0125
1672*97		MOA09MTL007	Direct	Dissolved	NA	NA	NA	NA	1.48	NA	NA	NA	NA
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**1%**	**N/A**	**N/A**	**N/A**	**N/A**
1672*101	1	MOA09MTL004	Fe/Pd	Total	25.4	23.5	29.3	67.9	12.8	0.119	0.151	7.81	0.0535
1672*101	2	MOA09MTL004	Fe/Pd	Total	NA	NA	NA	NA	NA	NA	NA	NA	0.0522
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**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.

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 93-100 Project Manager: MOATS

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater & freshwater WP# W34435

Yes	No	
	X	Navy-type Project (requires high-level sample tracking procedures)
X	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:

Sample Preservation Instructions:

Date To Archive: Date To Dispose: See Form

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
	N/A		Was a custody seal present?
		N/A	Was the custody seal intact?
N/A			Was cooler(s) temperature(s) within acceptable range of 4±2°C or frozen? 4.7 °C (if multiple coolers, note temp. of each) °C
		N/A	Was 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			Were samples filtered at MSL?

Sample condition(s): Acceptable Other (explain):

Container type: Teflon Poly Glass Cap. Vial Other:

Notes:

Completed By: SBMoats Date/Time: 6/25/09 1400

SAMPLE PRESERVATION

N/A	Sample(s) were preserved at MSL
	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)

If preservation necessary, record Acid Lot#

Type			
	N/A	0.2% HNO3	Notes: Lot # 1206070
		0.5% HCl (Hg samples)	Notes:
		Refrigerate/Freeze	Notes:
		Other	Notes:

Completed By: SBMoats Date/Time: 6/25/09 1400

Storage Shelf: K-6-C

Revsed 121608

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

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1004	**KLI Proj. #:** 516.02

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).
Data to be reported in printed and digital formats.

MATRIX: Water	**Preservative:** None, 4° C	**Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER	
MOA09MTL001	F1-1S	1	6/23/09	1520		1672-94	92
MOA09MTL002	F1-2S	1	↓	1555		95	9
MOA09MTL003	F1-3S	1	↓	1610		96	10

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	6/24/09 1200	FedEx	[illegible]	6/25/09 1402
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\MOA09\COCs\RW COCs (June)\RW09COC.wpd

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	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK09-1004	**KLI Proj. #:** 516.02

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).
Data to be reported in printed and digital formats.

MATRIX: Water	**Preservative:** None, 4° C	**Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	1672 ASSIGNED LABORATORY NUMBER T	F
MOA09MTL004	C1-1S	1	06/24/09	1609		101	104
MOA09MTL005	C1-2S	1	↓	1648		102	105
MOA09MTL006	C1-3S	1	↓	1716		103	106

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Gary Gillingham	06/25/09 11:30	FEDX	Linda SB Moats	6/26/09 1210
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK09-~~1007~~ 1004 | **KLI Proj. #:** 516.01

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).
Data to be reported in printed and digital formats.

MATRIX: Water | **Preservative:** None, 4° C | **Type of Container:** 1-l Teflon

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09MTL007	EFFLUENT	1	6/23-6/24	0600-0600		1672-93

Please filter and preserve immediately upon receipt at laboratory.

F. 97

DATA REPORTS **MUST** INCLUDE THE FOLLOWING: SAMPLE ID NUMBER, ANALYTICAL METHOD, DETECTION LIMIT, DATE OF EXTRACTION IF APPLICABLE, DATE OF ANALYSIS, ANALYTICAL RESULTS, AND SIGNATURE OF QA REVIEWER.

COMMENTS: PLEASE REPORT ALL QA/QC, INCLUDING METHOD BLANKS, MS/SDs, DUPLICATES, ETC.

Please return completed original COC to KLI Anchorage.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/9 1030	hand		6/24 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/24/09 1200	hand-FedX		6/25/09/1402
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\MOA09\COCs\DRY COC's(June)\RW_EFF09COC.wpd

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 101-106 Project Manager: M OATS

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater WP# 1034435

Yes	No	
	X	Navy-type Project (requires high-level sample tracking procedures)
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:

Sample Preservation Instructions:

Date To Archive: Date To Dispose: See Time

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
	BM		Was a custody seal present?
		BM	Was the custody seal intact?
BM			Was cooler(s) temperature(s) within acceptable range of 4±2°C or frozen? (if multiple coolers, note temp. of each) 4.2 °C
		BM	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:
BM			Were all chain of custody forms signed and dated?
BM			Were samples filtered at MSL?

Sample condition(s): Acceptable Other (explain):

Container type: Teflon Poly Glass Cap. Vial Other:

Notes:

Completed By: BM OATS Date/Time: 6/26/09 1209

SAMPLE PRESERVATION

- [BM] Sample(s) were preserved at MSL
- [ ] 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)

If preservation necessary, record Acid Lot#

Type: [BM] 0.2% HNO3 Notes: Lot # 1207060

[ ] 0.5% HCl (Hg samples) Notes:

[ ] Refrigerate/Freeze Notes:

[ ] Other Notes:

Completed By: M OATS Date/Time: 6/26/09 1210

Storage Shelf: K-6C

Revsed 121608

APPENDIX C

Receiving Water Quality Monitoring

C5 Intertidal Bacteria

Spectra Laboratories

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/26/2009

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

Project: 516.02
Sample Matrix: Water
Date Sampled: 06/23/2009
Date Received: 06/24/2009
Spectra Project: 2009060442

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09FEC001	1	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC002	2	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC003	3	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC004	4	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC005	5	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC006	6	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC007	7	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC008	8	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC009	9	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC010	10	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC011	11	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC012	12	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC013	13	Fecal Coliform by MPN in	30	MPN/100ml	SM 9221E
MOA09FEC014	14	Fecal Coliform by MPN in	11	MPN/100ml	SM 9221E
MOA09FEC015	15	Fecal Coliform by MPN in	8	MPN/100ml	SM 9221E
MOA09FEC016	16	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC017	17	Fecal Coliform by MPN in	34	MPN/100ml	SM 9221E
MOA09FEC018	18	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
MOA09FEC019	19	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC020	20	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC021	21	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
MOA09FEC022	22	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC023	23	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/snb

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/29/2009

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

P.O.#: AK09-1007
Project: 516.02
Sample Matrix: Water
Date Sampled: 06/24/2009
Date Received: 06/25/2009
Spectra Project: 2009060473

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09FEC025	1	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC026	2	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC027	3	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC028	4	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC029	5	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC030	6	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC031	7	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC032	8	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC033	9	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC034	10	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
MOA09FEC035	11	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC036	12	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC037	13	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC038	14	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA09FEC039	15	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA09FEC040	16	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/snb

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/26/2009

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

Project: 516.02
Sample Matrix: Water
Date Sampled: 06/23/2009
Date Received: 06/24/2009
Spectra Project: 2009060442

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09FEC024	24	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC041	25	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC042	26	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC043	27	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA05FEC044	28	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA05FEC045	29	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA05FEC046	30	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA05FEC047	31	Fecal Coliform by MPN in	7	MPN/100ml	SM 9221E
MOA05FEC048	32	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
MOA05FEC049	33	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC050	34	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC051	35	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
MOA05FEC052	36	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC053	37	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC054	38	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC055	39	Fecal Coliform by MPN in	< 2	MPN/100ml	SM 9221E
MOA05FEC056	40	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/snb

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/26/2009

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

P.O.#: AK09-1007
Project: 516.01
Sample Matrix: Water
Date Sampled: 06/24/2009
Date Received: 06/24/2009
Spectra Project: 2009060441

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09FEC057	1	Fecal Coliform by MPN in	17	MPN/100ml	SM 9221E
MOA09FEC058	2	Fecal Coliform by MPN in	13	MPN/100ml	SM 9221E

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/snb

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

06/26/2009

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

P.O.#: AK09-1007
Project: 516.06
Sample Matrix: Water
Date Sampled: 06/23/2009
Date Received: 06/24/2009
Spectra Project: 2009060440

Client ID	Spectra #	Analyte	Result	Units	Method
MOA09FEC059	1	Fecal Coliform by MPN in	22	MPN/100ml	SM 9221E
MOA09FEC060	2	Fecal Coliform by MPN in	80	MPN/100ml	SM 9221E
MOA09FEC061	3	Fecal Coliform by MPN in	8	MPN/100ml	SM 9221E
MOA09FEC062	4	Fecal Coliform by MPN in	7	MPN/100ml	SM 9221E
MOA09FEC063	5	Fecal Coliform by MPN in	900	MPN/100ml	SM 9221E
MOA09FEC064	6	Fecal Coliform by MPN in	1600	MPN/100ml	SM 9221E

* Samples received past recommended holing time of 6 hours.

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/ng

200906042

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK09-1007	KLI Proj. #: 516.02

ANALYSIS TYPE: Fecal coliform (SM 9221E)
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: $Na_2S_2O_3$, 4° C	Type of Container: 125-mL plastic

STATION LOCATION	FECAL SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
E1-1S	MOA09FEC001 ✓	6/23/09 0826		
E1-2S	MOA09FEC002 ✓	0837		
E1-3S	MOA09FEC003 ✓	0846		
E1-4S	MOA09FEC004 ✓	0912		
E2-1S	MOA09FEC005 ✓	1019		
E2-2S	MOA09FEC006 ✓	1023		
E2-3S	MOA09FEC007 ✓	1029		
E2-4S	MOA09FEC008 ✓	1044		
E3-1S	MOA09FEC009 ✓	1221		
E3-2S	MOA09FEC010 ✓	1232		
E3-3S	MOA09FEC011 ✓	1247		
E3-4S	MOA09FEC012 ✓	1309		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
A A Lawley	6/23/09 2200	Gold Streak		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

200906042

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907) 276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK09-1007	KLI Proj. #: 516.02

ANALYSIS TYPE: Fecal coliform (SM 9221E)
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: $Na_2S_2O_3$, 4° C	Type of Container: 125-mL plastic

STATION LOCATION	FECAL SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
F1-1S	MOA09FEC013 ✓	6/23/09 1524		
F1-2S	MOA09FEC014 ✓	1555		
F1-3S	MOA09FEC015 ✓	1610		
F1-4S	MOA09FEC016 ✓	1638		
F2-1S	MOA09FEC017 ✓	1655		
F2-2S	MOA09FEC018 ✓	1702		
F2-3S	MOA09FEC019 ✓	1714		
F2-4S	MOA09FEC020 ✓	1735		
F3-1S	MOA09FEC021 ✓	1809		
F3-2S	MOA09FEC022 ✓	1815		
F3-3S	MOA09FEC023 ✓	1823		
F3-4S	MOA09FEC024 ✓	1835		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
A. Lawley	6/23/09 2200	Gold Strike		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

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2009060473

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK09-1007	KLI Proj. #: 516.02

ANALYSIS TYPE: Fecal coliform (SM 9221E)
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: $Na_2S_2O_3$, 4° C	Type of Container: 125-mL plastic

STATION LOCATION	FECAL SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
C1-1S	MOA09FEC025	6/24/09 1609		
C1-2S	MOA09FEC026	1648		
C1-3S	MOA09FEC027	1716		
C1-4S	MOA09FEC028	1742		
C2-1S	MOA09FEC029	1812		
C2-2S(A)	MOA09FEC030	1819		
C2-2S(B)	MOA09FEC031	1844		
C2-2S(C)	MOA09FEC032	1855		
C2-3S	MOA09FEC033	1844		
C2-4S	MOA09FEC034	1855		
C3-1S(A)	MOA09FEC035	6/24/09 1936		Fecal laboratory triplicate in larger container; analyze 3 times
C3-1S(B)	MOA09FEC036	1936		
C3-1S(C)	MOA09FEC037	1936		
C3-2S	MOA09FEC038	1948		
C3-3S	MOA09FEC039	2005		
C3-4S	MOA09FEC040	2020		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/24/09 1130	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

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2009060 4/42

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, Wa. 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 403 West 8th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK09-1007	KLI Proj. #: 516.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: None, 4° C	Type of Container: 125-mL plastic

STATION LOCATION	FECAL SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
IT-1 Rep1	MOA05FEC041 ✓	6/23/09 1929		
IT-1 Rep2	MOA05FEC042 ✓	1929		
IT-2 Rep1	MOA05FEC043 ✓	1927		
IT-2 Rep2	MOA05FEC044 ✓	1927		
IT-3 Rep1	MOA05FEC045 ✓	1925		
IT-3 Rep2	MOA05FEC046 ✓	1925		
IT-4 Rep1	MOA05FEC047 ✓	1923		
IT-4 Rep2	MOA05FEC048 ✓	1923		
IT-5 Rep1	MOA05FEC049 ✓	1921		
IT-5 Rep2	MOA05FEC050 ✓	1921		
IT-6 Rep1	MOA05FEC051 ✓	1919		
IT-6 Rep2	MOA05FEC052 ✓	1919		
IT-7 Rep1	MOA05FEC053 ✓	1916		
IT-7 Rep2	MOA05FEC054 ✓	1916		
IT-C Rep1	MOA05FEC055 ✓	1858		
IT-C Rep2	MOA05FEC056 ✓	1858		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/23/09 2200	Gold Streak		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

2009060441

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE: 30 days	P.O. #: AK09-1007	KLI Proj. #: 516.01

ANALYSIS TYPE: Fecal coliform (SM 9221E).
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: $Na_2S_2O_3$, 4° C	Type of Container: 125-mL plastic

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA09FEC057	EFFLUENT REP. 1 ✓	1	6/23/09	1400		
MOA09FEC058	EFFLUENT REP. 2 ✓	1	6/23/09	1400		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/23/09 1450	HAND	[signature]	6-23-09 14:50
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/23/09 22:00	Gold Streak		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

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2009060440

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, Wa. 98421 Attn: Shiran Brenner (253) 272-4850	Kinnetic Laboratories, Inc. 403 West 8th Avenue Anchorage, AK 99501 Attn: Gary Lawley (907)276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK09-1007	KLI Proj. #: 516.02

ANALYSIS TYPE: Fecal coliform (SM 9222E).
Data to be reported in printed and digital formats.

MATRIX: Water	Preservative: None, 4° C	Type of Container: 125-mL plastic

STATION LOCATION	FECAL SAMPLE ID	DATE/TIME	LAB ID	COMMENTS
Chester Creek Rep1	MOA05FEC059	6-23-09 13:37 ✓		spillway has been re-engineered/re-constructed
Chester Creek Rep2	MOA05FEC060	6-23-09 13:37 ✓		"
Ship Creek Rep1	MOA05FEC061	6-23-09 13:15 ✓		
Ship Creek Rep2	MOA05FEC062	6-23-09 13:15 ✓		
Fish Creek Rep1	MOA05FEC063	6-23-09 13:50 ✓		Lots of white foam down-stream from spillway
Fish Creek Rep2	MOA05FEC064	6-23-09 13:50 ✓		Dirty Brown water "

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/23/09 2200	Gold Streak		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

APPENDIX C

Receiving Water Quality Monitoring

C6 Total Residual Chlorine and Turbidity Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
TOTAL RESIDUAL CHLORINE DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2009 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	Total Residual Chlorine (TRC µg/L)
MOA09TRC001	E1-1S	6/23/2009	8:26	ND
MOA09TRC002	E1-2S	6/23/2009	8:36	ND
MOA09TRC003	E1-3S	6/23/2009	8:46	ND
MOA09TRC004	E1-4S	6/23/2009	9:12	ND
MOA09TRC005	E2-1S	6/23/2009	10:19	ND
MOA09TRC006	E2-2S	6/23/2009	10:23	ND
MOA09TRC007	E2-3S	6/23/2009	10:29	ND
MOA09TRC008	E2-4S	6/23/2009	10:44	ND
MOA09TRC009	E3-1S	6/23/2009	12:21	13.5
MOA09TRC010	E3-2S	6/23/2009	12:32	ND
MOA09TRC011	E3-3S	6/23/2009	12:47	ND
MOA09TRC012	E3-4S	6/23/2009	13:09	ND
MOA09TRC013	F1-1S	6/23/2009	15:20	ND
MOA09TRC014	F1-2S	6/23/2009	15:55	62.5 / 86.4
MOA09TRC015	F1-3S	6/23/2009	16:10	ND
MOA09TRC016	F1-4S	6/23/2009	16:38	ND
MOA09TRC017	F2-1S	6/23/2009	16:55	10
MOA09TRC018	F2-2S	6/23/2009	17:02	ND
MOA09TRC019	F2-3S	6/23/2009	17:14	ND
MOA09TRC020	F2-4S	6/23/2009	17:35	ND
MOA09TRC021	F3-1S	6/23/2009	18:09	ND
MOA09TRC022	F3-2S	6/23/2009	18:15	ND
MOA09TRC023	F3-3S	6/23/2009	18:23	ND
MOA09TRC024	F3-4S	6/23/2009	18:35	ND
MOA09TRC025	C1-1S	6/24/2009	16:09	ND / ND
MOA09TRC026	C1-2S	6/24/2009	16:48	ND / ND
MOA09TRC027	C1-3S	6/24/2009	17:16	ND
MOA09TRC028	C1-4S	6/24/2009	17:42	ND
MOA09TRC029	C2-1S	6/24/2009	18:12	ND
MOA09TRC030	C2-2S A	6/24/2009	18:19	ND
MOA09TRC031	C2-2S B	6/24/2009	18:19	ND
MOA09TRC032	C2-2S C	6/24/2009	18:19	ND
MOA09TRC033	C2-3S	6/24/2009	18:44	ND
MOA09TRC034	C2-4S	6/24/2009	18:55	ND
MOA09TRC035	C3-1S A	6/24/2009	19:36	ND
MOA09TRC036	C3-1S B	6/24/2009	19:36	NT
MOA09TRC037	C3-1S C	6/24/2009	19:36	NT
MOA09TRC038	C3-2S	6/24/2009	19:48	ND
MOA09TRC039	C3-3S	6/24/2009	20:05	ND
MOA09TRC040	C3-4S	6/24/2009	20:20	ND

REVIEWED BY: G. G. LAWLEY DATE: 11/1/09 SIGNATURE: A A [illegible]

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2009 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	6/24/09	10:04

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA09TUR001	E1-1S	6/23/2009	8:26	6/23/09	16:30	315
MOA09TUR002	E1-1M	6/23/2009	8:26	6/23/09	16:32	513
MOA09TUR003	E1-1B	6/23/2009	8:26	6/23/09	16:34	485
MOA09TUR004	E1-2S	6/23/2009	8:36	6/23/09	16:38	278
MOA09TUR005	E1-2M	6/23/2009	8:36	6/23/09	16:40	470
MOA09TUR006	E1-2B	6/23/2009	8:36	6/23/09	16:42	353
MOA09TUR007	E1-3S	6/23/2009	8:46	6/23/09	16:45	224
MOA09TUR008	E1-3M	6/23/2009	8:46	6/23/09	16:47	362
MOA09TUR009	E1-3B	6/23/2009	8:46	6/23/09	16:48	288
MOA09TUR010	E1-4S	6/23/2009	9:12	6/23/09	16:51 / 16:53	213 / 220
MOA09TUR011	E1-4M	6/23/2009	9:12	6/23/09	16:55	255
MOA09TUR012	E1-4B	6/23/2009	9:12	6/23/09	16:57	332
MOA09TUR013	E2-1S	6/23/2009	10:19	6/23/09	16:59	397
MOA09TUR014	E2-1M	6/23/2009	10:19	6/23/09	17:00	393
MOA09TUR015	E2-1B	6/23/2009	10:19	6/23/09	17:02	403
MOA09TUR016	E2-2S	6/23/2009	10:23	6/23/09	17:05	386
MOA09TUR017	E2-2M	6/23/2009	10:23	6/23/09	17:07	434
MOA09TUR018	E2-2B	6/23/2009	10:23	6/23/09	17:08	417
MOA09TUR019	E2-3S	6/23/2009	10:29	6/23/09	17:11	384
MOA09TUR020	E2-3M	6/23/2009	10:29	6/23/09	17:13	409
MOA09TUR021	E2-3B	6/23/2009	10:29	6/23/09	17:15	412
MOA09TUR022	E2-4S	6/23/2009	10:44	6/23/09	17:18	396
MOA09TUR023	E2-4M	6/23/2009	10:44	6/23/09	17:19	409
MOA09TUR024	E2-4B	6/23/2009	10:44	6/23/09	17:20	394
MOA09TUR025	E3-1S	6/23/2009	12:21	6/23/09	17:24 / 17:26	365 / 375
MOA09TUR026	E3-1M	6/23/2009	12:21	6/23/09	17:28	383
MOA09TUR027	E3-1B	6/23/2009	12:21	6/23/09	17:30	381
MOA09TUR028	E3-2S	6/23/2009	12:32	6/23/09	17:32	354
MOA09TUR029	E3-2M	6/23/2009	12:32	6/23/09	17:34	385
MOA09TUR030	E3-2B	6/23/2009	12:32	6/23/09	17:35	387
MOA09TUR031	E3-3S	6/23/2009	12:47	6/23/09	17:37	354
MOA09TUR032	E3-3M	6/23/2009	12:47	6/23/09	17:38	391
MOA09TUR033	E3-3B	6/23/2009	12:47	6/23/09	17:40	401
MOA09TUR034	E3-4S	6/23/2009	13:09	6/23/09	17:42	322
MOA09TUR035	E3-4M	6/23/2009	13:09	6/23/09	17:43	404
MOA09TUR036	E3-4B	6/23/2009	13:09	6/23/09	17:44	410

REVIEWED BY: GG LAWLEY DATE: 11/3/09 SIGNATURE: [signature]

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2009 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	6/24/09	10:04

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA09TUR037	F1-1S	6/23/2009	15:20	6/24/09	10:05	237
MOA09TUR038	F1-1M	6/23/2009	15:20	6/24/09	10:07	278
MOA09TUR039	F1-1B	6/23/2009	15:20	6/24/09	10:08	266
MOA09TUR040	F1-2S	6/23/2009	15:55	6/24/09	10:10	222
MOA09TUR041	F1-2M	6/23/2009	15:55	6/24/09	10:11	290
MOA09TUR042	F1-2B	6/23/2009	15:55	6/24/09	10:12	294 / 291
MOA09TUR043	F1-3S	6/23/2009	16:10	6/24/09	10:14	226
MOA09TUR044	F1-3M	6/23/2009	16:10	6/24/09	10:17	292
MOA09TUR045	F1-3B	6/23/2009	16:10	6/24/09	10:18	288
MOA09TUR046	F1-4S	6/23/2009	16:38	6/24/09	10:21	39
MOA09TUR047	F1-4M	6/23/2009	16:38	6/24/09	10:28	223
MOA09TUR048	F1-4B	6/23/2009	16:38	6/24/09	10:30	228
MOA09TUR049	F2-1S	6/23/2009	16:55	6/24/09	10:32	465
MOA09TUR050	F2-1M	6/23/2009	16:55	6/24/09	10:34	509
MOA09TUR051	F2-1B	6/23/2009	16:55	6/24/09	10:36	515
MOA09TUR052	F2-2S	6/23/2009	17:02	6/24/09	10:45	210
MOA09TUR053	F2-2M	6/23/2009	17:02	6/24/09	10:46	482
MOA09TUR054	F2-2B	6/23/2009	17:02	6/24/09	10:48	491
MOA09TUR055	F2-3S	6/23/2009	17:14	6/24/09	10:50	440 / 442
MOA09TUR056	F2-3M	6/23/2009	17:14	6/24/09	10:52	525
MOA09TUR057	F2-3B	6/23/2009	17:14	6/24/09	10:54	550
MOA09TUR058	F2-4S	6/23/2009	17:35	6/24/09	10:59	118
MOA09TUR059	F2-4M	6/23/2009	17:35	6/24/09	11:01	298
MOA09TUR060	F2-4B	6/23/2009	17:35	6/24/09	11:03	509
MOA09TUR061	F3-1S	6/23/2009	18:09	6/24/09	11:04	406
MOA09TUR062	F3-1M	6/23/2009	18:09	6/24/09	11:06	408
MOA09TUR063	F3-1B	6/23/2009	18:09	6/24/09	11:08	430
MOA09TUR064	F3-2S	6/23/2009	18:15	6/24/09	11:10	435
MOA09TUR065	F3-2M	6/23/2009	18:15	6/24/09	11:12	439
MOA09TUR066	F3-2B	6/23/2009	18:15	6/24/09	11:14	437
MOA09TUR067	F3-3S	6/23/2009	18:23	6/24/09	11:16	471
MOA09TUR068	F3-3M	6/23/2009	18:23	6/24/09	11:18	495
MOA09TUR069	F3-3B	6/23/2009	18:23	6/24/09	11:20	485
MOA09TUR070	F3-4S	6/23/2009	18:35	6/24/09	11:22	397 / 399
MOA09TUR071	F3-4M	6/23/2009	18:35	6/24/09	11:23	431
MOA09TUR072	F3-4B	6/23/2009	18:35	6/24/09	11:25	433

REVIEWED BY: GG LAWLEY DATE: 11/3/09 SIGNATURE:

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2009 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.02	6/24/09	10:04

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	TURBIDITY (NTU)
MOA09TUR073	C1-1S	6/24/2009	16:09	6/25/09	10:50	338
MOA09TUR074	C1-1M	6/24/2009	16:09	6/25/09	10:54	612
MOA09TUR075	C1-1B	6/24/2009	16:09	6/25/09	10:57	520
MOA09TUR076	C1-2S	6/24/2009	16:48	6/25/09	10:58	13
MOA09TUR077	C1-2M	6/24/2009	16:48	6/25/09	11:01	591
MOA09TUR078	C1-2B	6/24/2009	16:48	6/25/09	11:07	600
MOA09TUR079	C1-3S	6/24/2009	17:16	6/25/09	11:09	239
MOA09TUR080	C1-3M	6/24/2009	17:16	6/25/09	11:11	575
MOA09TUR081	C1-3B	6/24/2009	17:16	6/25/09	11:13	590 / 600
MOA09TUR082	C1-4S	6/24/2009	17:42	6/25/09	11:16	525
MOA09TUR083	C1-4M	6/24/2009	17:42	6/25/09	11:18	580
MOA09TUR084	C1-4B	6/24/2009	17:42	6/25/09	11:19	620
MOA09TUR085	C2-1S	6/24/2009	18:12	6/25/09	11:22	422
MOA09TUR086	C2-1M	6/24/2009	18:12	6/25/09	11:24	530
MOA09TUR087	C2-1B	6/24/2009	18:12	6/25/09	11:26	545
MOA09TUR088	C2-2S A	6/24/2009	18:19	6/25/09	11:28	330
MOA09TUR089	C2-2S B	6/24/2009	18:19	6/25/09	11:30	355
MOA09TUR090	C2-2S C	6/24/2009	18:19	6/25/09	11:32	342
MOA09TUR091	C2-2M	6/24/2009	18:19	6/25/09	11:33	530
MOA09TUR092	C2-2B	6/24/2009	18:19	6/25/09	11:35	573
MOA09TUR093	C2-3S	6/24/2009	18:44	6/25/09	11:49	480
MOA09TUR094	C2-3M	6/24/2009	18:44	6/25/09	11:51	538 / 532
MOA09TUR095	C2-3B	6/24/2009	18:44	6/25/09	11:54	532
MOA09TUR096	C2-4S	6/24/2009	18:55	6/25/09	12:08	468
MOA09TUR097	C2-4M	6/24/2009	18:55	6/25/09	12:10	510
MOA09TUR098	C2-4B	6/24/2009	18:55	6/25/09	12:11	528
MOA09TUR099	C3-1S A	6/24/2009	19:36	6/25/09	12:14	295
MOA09TUR100	C3-1S B	6/24/2009	19:36	6/25/09	12:14	300
MOA09TUR101	C3-1S C	6/24/2009	19:36	6/25/09	12:14	290
MOA09TUR102	C3-1M	6/24/2009	19:36	6/25/09	12:15	376
MOA09TUR103	C3-1B	6/24/2009	19:36	6/25/09	12:16	513
MOA09TUR104	C3-2S	6/24/2009	19:48	6/25/09	12:19	159
MOA09TUR105	C3-2M	6/24/2009	19:48	6/25/09	12:20	414
MOA09TUR106	C3-2B	6/24/2009	19:48	6/25/09	12:21	431
MOA09TUR107	C3-3S	6/24/2009	20:05	6/25/09	12:23	188
MOA09TUR108	C3-3M	6/24/2009	20:05	6/25/09	12:24	450
MOA09TUR109	C3-3B	6/24/2009	20:05	6/25/09	12:25	506
MOA09TUR110	C3-4S	6/24/2009	20:20	6/25/09	12:27	320
MOA09TUR111	C3-4M	6/24/2009	20:20	6/25/09	12:28	300
MOA09TUR112	C3-4B	6/24/2009	20:20	6/25/09	12:30	263

REVIEWED BY: GG LAWLEY DATE: 11/3/09 SIGNATURE: [signature]

APPENDIX C

Receiving Water Quality Monitoring

C7 Hydrographic Data Profiles

Kinnetic Laboratories, Inc.

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C1-1 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.821	1.278	9.810	7.94	9.92	185	6.985	0
1.0	12.662	1.270	9.783	7.94	9.97	255	6.988	0
1.5	12.471	1.247	9.639	7.95	9.97	310	6.904	0
2.0	12.389	1.231	9.532	7.95	9.98	357	6.833	0
2.5	12.336	1.216	9.414	7.96	9.99	390	6.749	0
3.0	12.305	1.204	9.323	7.96	10.00	403	6.684	0
3.5	12.289	1.200	9.298	7.97	10.01	411	6.667	0
4.0	12.268	1.197	9.273	7.97	10.01	419	6.650	0
4.5	12.248	1.195	9.265	7.98	10.01	433	6.647	0
5.0	12.240	1.198	9.288	7.98	10.00	440	6.666	0
5.5	12.240	1.202	9.321	7.98	10.02	443	6.692	0
6.0	12.244	1.207	9.367	7.98	10.01	446	6.727	0
6.5	12.252	1.215	9.430	7.98	9.97	452	6.774	0
7.0	12.261	1.226	9.521	7.98	9.95	454	6.843	0
7.5	12.267	1.235	9.589	7.98	9.98	454	6.895	0
8.0	12.275	1.241	9.641	7.98	9.98	453	6.933	0
8.5	12.286	1.250	9.717	7.98	9.96	449	6.991	0
9.0	12.296	1.260	9.795	7.97	9.97	448	7.050	0
9.5	12.300	1.265	9.838	7.98	10.00	444	7.082	0
10.0	12.304	1.268	9.861	7.97	10.00	443	7.099	0
10.5	12.310	1.273	9.900	7.97	10.01	441	7.129	0
11.0	12.321	1.280	9.954	7.97	9.99	440	7.169	0
11.5	12.330	1.288	10.018	7.97	9.98	440	7.216	0
12.0	12.332	1.290	10.035	7.97	9.98	440	7.229	0
12.5	12.332	1.290	10.041	7.97	9.98	438	7.234	0
13.0	12.334	1.292	10.050	7.97	10.00	436	7.241	0
13.5	12.335	1.293	10.057	7.97	9.97	437	7.246	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C1-2 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.868	1.277	9.792	7.94	9.91	156	6.965	0
1.0	12.771	1.275	9.800	7.94	9.95	165	6.985	0
1.5	12.686	1.273	9.800	7.95	9.93	176	6.997	0
2.0	12.689	1.274	9.813	7.96	9.93	186	7.007	0
2.5	12.695	1.276	9.825	7.97	9.96	186	7.015	0
3.0	12.653	1.272	9.800	7.97	9.98	182	7.002	0
3.5	12.584	1.263	9.748	7.97	9.98	182	6.972	0
4.0	12.498	1.249	9.651	7.98	9.98	201	6.909	0
4.5	12.441	1.237	9.564	7.99	9.98	243	6.851	0
5.0	12.390	1.227	9.492	7.99	10.00	279	6.802	0
5.5	12.343	1.217	9.425	7.99	10.02	307	6.758	0
6.0	12.305	1.206	9.336	8.00	10.03	346	6.694	0
6.5	12.285	1.198	9.275	8.00	10.04	373	6.649	0
7.0	12.268	1.192	9.230	8.00	10.03	384	6.617	0
7.5	12.258	1.188	9.198	8.00	10.05	391	6.594	0
8.0	12.243	1.183	9.166	8.00	10.06	400	6.571	0
8.5	12.228	1.179	9.136	8.01	10.06	409	6.550	0
9.0	12.218	1.178	9.128	8.01	10.07	417	6.545	0
9.5	12.214	1.180	9.141	8.01	10.06	421	6.556	0
10.0	12.219	1.187	9.200	8.01	10.03	426	6.601	0
10.5	12.224	1.195	9.271	8.01	10.04	429	6.655	0
11.0	12.232	1.204	9.339	8.01	10.04	431	6.707	0
11.5	12.243	1.212	9.407	8.00	10.03	429	6.757	0
12.0	12.257	1.225	9.511	8.00	10.02	425	6.835	0
12.5	12.265	1.234	9.584	8.00	10.02	426	6.891	0
13.0	12.270	1.239	9.627	8.00	10.02	432	6.923	0
13.5	12.271	1.241	9.641	8.00	10.01	436	6.934	0
14.0	12.273	1.243	9.659	8.00	10.00	439	6.948	0
14.5	12.277	1.246	9.682	8.00	10.02	434	6.965	0
15.0	12.279	1.247	9.693	8.00	10.02	436	6.973	0
15.5	12.281	1.249	9.707	8.00	10.04	436	6.983	0
16.0	12.282	1.251	9.721	8.00	10.03	442	6.994	0
16.5	12.285	1.253	9.734	7.99	10.02	446	7.004	0
17.0	12.287	1.255	9.752	7.99	10.05	442	7.018	0
17.5	12.289	1.256	9.762	7.99	10.05	451	7.025	0
18.0	12.290	1.256	9.762	7.99	10.06	477	7.025	0
18.5	12.289	1.254	9.746	7.99	10.06	517	7.013	0
19.0	12.286	1.251	9.720	7.99	10.05	554	6.993	0
19.5	12.284	1.246	9.676	8.00	10.05	611	6.959	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C1-3 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.839	1.236	9.454	7.97	9.95	160	6.709	0
1.0	12.737	1.233	9.459	7.98	9.95	199	6.728	0
1.5	12.747	1.233	9.458	7.99	9.92	191	6.725	0
2.0	12.711	1.233	9.461	7.98	9.91	212	6.733	0
2.5	12.637	1.228	9.445	7.99	9.95	251	6.731	0
3.0	12.561	1.223	9.417	7.99	9.98	275	6.720	0
3.5	12.480	1.213	9.356	7.99	9.96	304	6.685	0
4.0	12.468	1.208	9.315	7.99	9.97	323	6.654	0
4.5	12.435	1.207	9.318	7.99	10.00	339	6.661	0
5.0	12.418	1.205	9.301	7.99	9.99	349	6.651	0
5.5	12.380	1.199	9.260	8.00	9.99	365	6.625	0
6.0	12.367	1.196	9.242	8.00	10.01	367	6.613	0
6.5	12.386	1.200	9.268	8.00	10.01	358	6.630	0
7.0	12.361	1.197	9.249	8.00	10.02	370	6.619	0
7.5	12.355	1.195	9.235	8.00	10.01	374	6.609	0
8.0	12.363	1.197	9.252	8.00	10.01	368	6.621	0
8.5	12.336	1.192	9.216	8.00	10.03	381	6.597	0
9.0	12.315	1.187	9.181	8.00	10.04	392	6.573	0
9.5	12.286	1.180	9.129	8.01	10.06	408	6.536	0
10.0	12.302	1.184	9.156	8.00	10.05	398	6.556	0
10.5	12.306	1.187	9.184	8.00	10.05	396	6.576	0
11.0	12.273	1.176	9.099	8.01	10.06	415	6.516	0
11.5	12.273	1.176	9.097	8.01	10.07	415	6.514	0
12.0	12.275	1.177	9.101	8.00	10.07	416	6.517	0
12.5	12.283	1.180	9.126	8.00	10.08	408	6.535	0
13.0	12.278	1.180	9.127	8.00	10.09	412	6.536	0
13.5	12.270	1.179	9.120	8.00	10.10	415	6.532	0
14.0	12.263	1.177	9.107	8.00	10.10	421	6.523	0
14.5	12.260	1.176	9.095	8.00	10.10	423	6.514	0
15.0	12.264	1.177	9.104	8.01	10.09	413	6.521	0
15.5	12.269	1.180	9.126	8.00	10.11	419	6.537	0
16.0	12.246	1.174	9.084	8.01	10.12	443	6.508	0
16.5	12.227	1.169	9.045	8.01	10.13	453	6.480	0
17.0	12.225	1.168	9.040	8.01	10.14	454	6.476	0
17.5	12.226	1.168	9.043	8.01	10.15	453	6.479	0
18.0	12.227	1.169	9.047	8.01	10.15	455	6.482	0
18.5	12.231	1.172	9.074	8.01	10.13	467	6.502	0
19.0	12.234	1.175	9.095	8.01	10.14	475	6.518	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C1-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.274	1.114	8.584	7.96	9.97	350	6.118	0
1.0	12.270	1.116	8.596	7.97	9.97	364	6.127	0
1.5	12.263	1.109	8.538	7.97	9.94	368	6.084	0
2.0	12.262	1.108	8.536	7.97	9.94	369	6.083	0
2.5	12.269	1.113	8.574	7.97	9.97	369	6.111	0
3.0	12.276	1.117	8.608	7.97	9.97	369	6.136	0
3.5	12.276	1.118	8.609	7.98	9.97	368	6.137	0
4.0	12.279	1.119	8.617	7.98	9.96	369	6.143	0
4.5	12.286	1.122	8.640	7.99	9.97	368	6.160	0
5.0	12.288	1.124	8.660	7.99	9.98	369	6.174	0
5.5	12.287	1.124	8.662	7.99	9.98	370	6.176	0
6.0	12.283	1.123	8.649	7.99	9.98	368	6.167	0
6.5	12.273	1.119	8.619	8.00	9.98	370	6.145	0
7.0	12.268	1.116	8.595	8.00	9.99	370	6.127	0
7.5	12.267	1.115	8.592	8.00	10.01	371	6.125	0
8.0	12.271	1.117	8.608	8.00	10.00	373	6.137	0
8.5	12.277	1.124	8.662	8.01	10.01	374	6.178	0
9.0	12.279	1.130	8.708	8.01	10.01	373	6.212	0
9.5	12.278	1.132	8.728	8.01	10.01	372	6.228	0
10.0	12.280	1.137	8.770	8.01	9.99	373	6.261	0
10.5	12.286	1.146	8.839	8.00	10.00	377	6.313	0
11.0	12.288	1.152	8.891	8.00	10.00	386	6.353	0
11.5	12.285	1.154	8.907	8.00	10.00	389	6.365	0
12.0	12.282	1.155	8.923	8.00	9.99	389	6.378	0
12.5	12.278	1.158	8.942	8.01	9.99	392	6.394	0
13.0	12.276	1.159	8.952	8.01	10.00	399	6.402	0
13.5	12.275	1.159	8.953	8.01	10.00	402	6.402	0
14.0	12.273	1.159	8.957	8.00	10.00	400	6.406	0
14.5	12.271	1.161	8.974	8.01	10.00	397	6.419	0
15.0	12.270	1.163	8.989	8.00	10.00	400	6.431	0
15.5	12.268	1.165	9.006	8.01	9.99	407	6.444	0
16.0	12.266	1.167	9.021	8.00	9.99	413	6.456	0
16.5	12.263	1.168	9.027	8.00	10.01	416	6.461	0
17.0	12.259	1.167	9.027	8.01	10.02	416	6.462	0
17.5	12.258	1.167	9.026	8.00	10.01	420	6.461	0
18.0	12.258	1.168	9.028	8.00	10.03	421	6.463	0
18.5	12.258	1.169	9.037	8.00	10.03	423	6.470	0
19.0	12.257	1.169	9.043	8.00	10.03	425	6.475	0
19.5	12.258	1.170	9.045	8.00	10.04	426	6.476	0
20.0	12.259	1.170	9.047	8.00	10.03	427	6.477	0
20.5	12.261	1.170	9.051	8.01	10.02	428	6.480	0
21.0	12.267	1.171	9.059	8.00	10.04	428	6.485	0
21.5	12.272	1.173	9.069	8.01	10.04	430	6.493	0
22.0	12.279	1.175	9.084	8.00	10.02	432	6.503	0
22.5	12.285	1.177	9.103	8.00	10.01	437	6.517	0
23.0	12.287	1.179	9.112	8.00	10.01	448	6.524	0
23.5	12.289	1.179	9.114	8.00	10.04	455	6.525	0
24.0	12.289	1.179	9.113	8.00	10.05	458	6.524	0
24.5	12.289	1.179	9.112	8.00	10.04	459	6.524	0
25.0	12.290	1.179	9.113	8.00	10.07	466	6.524	0
25.5	12.290	1.179	9.114	8.00	10.06	480	6.524	0
26.0	12.290	1.179	9.113	8.00	10.09	477	6.524	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C1-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.288	1.178	9.110	8.00	10.10	465	6.522	0
27.0	12.286	1.178	9.108	8.00	10.09	463	6.521	0
27.5	12.283	1.178	9.107	8.00	10.07	468	6.520	0
28.0	12.281	1.178	9.108	8.00	10.10	474	6.522	0
28.5	12.280	1.178	9.109	8.00	10.09	475	6.522	0
29.0	12.280	1.178	9.108	8.00	10.10	474	6.521	0
29.5	12.280	1.178	9.106	8.00	10.10	476	6.520	0
30.0	12.280	1.177	9.103	8.00	10.11	479	6.518	0
30.5	12.279	1.177	9.100	8.00	10.11	481	6.515	0
31.0	12.274	1.176	9.096	8.00	10.10	481	6.513	0
31.5	12.270	1.176	9.092	8.00	10.10	482	6.510	0
32.0	12.268	1.175	9.089	8.00	10.11	485	6.508	0
32.5	12.266	1.175	9.089	8.00	10.12	488	6.508	0
33.0	12.267	1.176	9.092	8.00	10.14	493	6.511	0
33.5	12.271	1.177	9.099	8.00	10.14	501	6.516	0
34.0	12.275	1.178	9.106	8.00	10.15	496	6.520	0
34.5	12.270	1.178	9.110	8.00	10.15	492	6.524	0
35.0	12.263	1.176	9.099	8.00	10.16	489	6.517	0
35.5	12.257	1.174	9.084	8.00	10.17	500	6.506	0
36.0	12.250	1.173	9.071	8.00	10.17	512	6.497	0
36.5	12.243	1.170	9.053	8.01	10.18	513	6.484	0
37.0	12.249	1.171	9.061	8.00	10.18	517	6.489	0
37.5	12.255	1.174	9.079	8.00	10.19	509	6.502	0
38.0	12.261	1.176	9.095	8.00	10.18	499	6.514	0
38.5	12.270	1.177	9.104	8.00	10.18	504	6.520	0
39.0	12.272	1.177	9.104	8.00	10.20	526	6.519	0
39.5	12.268	1.177	9.098	8.00	10.21	535	6.516	0
40.0	12.266	1.176	9.094	8.00	10.20	531	6.513	0
40.5	12.263	1.176	9.092	8.00	10.22	528	6.511	0
41.0	12.260	1.175	9.088	8.00	10.21	533	6.509	0
41.5	12.257	1.175	9.085	8.00	10.22	556	6.507	0
42.0	12.252	1.175	9.085	8.00	10.23	541	6.508	0
42.5	12.245	1.174	9.084	8.00	10.23	561	6.507	0
43.0	12.239	1.174	9.082	8.00	10.22	570	6.507	0
43.5	12.236	1.174	9.083	8.00	10.24	584	6.508	0
44.0	12.239	1.174	9.085	8.00	10.24	605	6.509	0
44.5	12.247	1.174	9.084	8.00	10.24	623	6.507	0
45.0	12.276	1.175	9.082	8.00	10.19	642	6.502	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-1 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.665	1.404	10.904	7.95	9.76	214	7.851	0
1.0	12.651	1.403	10.902	7.96	9.78	250	7.852	0
1.5	12.628	1.402	10.896	7.96	9.77	265	7.851	0
2.0	12.602	1.400	10.889	7.96	9.76	284	7.849	0
2.5	12.572	1.398	10.880	7.96	9.77	306	7.846	0
3.0	12.555	1.396	10.873	7.96	9.78	328	7.844	0
3.5	12.553	1.396	10.872	7.96	9.77	338	7.843	0
4.0	12.559	1.397	10.877	7.96	9.77	338	7.846	0
4.5	12.565	1.398	10.888	7.97	9.79	338	7.854	0
5.0	12.568	1.399	10.892	7.96	9.80	336	7.857	0
5.5	12.568	1.399	10.894	7.97	9.80	336	7.858	0
6.0	12.568	1.399	10.894	7.97	9.80	338	7.858	0
6.5	12.569	1.400	10.896	7.97	9.81	338	7.859	0
7.0	12.568	1.400	10.902	7.98	9.81	338	7.864	0
7.5	12.567	1.401	10.908	7.97	9.82	339	7.869	0
8.0	12.568	1.402	10.914	7.97	9.81	342	7.873	0
8.5	12.567	1.402	10.918	7.97	9.81	343	7.876	0
9.0	12.567	1.402	10.918	7.97	9.80	341	7.877	0
9.5	12.568	1.402	10.917	7.97	9.82	343	7.876	0
10.0	12.567	1.402	10.917	7.97	9.82	343	7.876	0
10.5	12.566	1.402	10.918	7.98	9.83	343	7.876	0
11.0	12.566	1.402	10.918	7.97	9.83	342	7.876	0
11.5	12.566	1.402	10.918	7.97	9.84	341	7.876	0
12.0	12.566	1.402	10.919	7.98	9.82	342	7.878	0
12.5	12.567	1.403	10.921	7.97	9.82	344	7.879	0
13.0	12.567	1.403	10.923	7.97	9.83	344	7.880	0
13.5	12.566	1.403	10.926	7.97	9.84	346	7.883	0
14.0	12.566	1.404	10.931	7.97	9.86	343	7.886	0
14.5	12.567	1.405	10.937	7.97	9.86	344	7.891	0
15.0	12.568	1.406	10.946	7.97	9.86	345	7.898	0
15.5	12.566	1.406	10.953	7.97	9.85	346	7.903	0
16.0	12.566	1.407	10.955	7.97	9.86	351	7.905	0
16.5	12.567	1.406	10.952	7.97	9.87	351	7.903	0
17.0	12.567	1.406	10.949	7.98	9.88	352	7.901	0
17.5	12.568	1.407	10.955	7.97	9.88	354	7.905	0
18.0	12.569	1.408	10.969	7.98	9.88	355	7.916	0
18.5	12.571	1.411	10.987	7.98	9.87	356	7.929	0
19.0	12.575	1.419	11.056	7.97	9.87	364	7.982	0
19.5	12.578	1.429	11.138	7.97	9.86	375	8.044	0
20.0	12.578	1.437	11.205	7.97	9.86	398	8.096	0
20.5	12.571	1.443	11.259	7.97	9.86	398	8.139	0
21.0	12.563	1.448	11.302	7.97	9.86	411	8.173	0
21.5	12.556	1.449	11.315	7.97	9.88	422	8.184	0
22.0	12.543	1.450	11.325	7.97	9.87	432	8.194	0
22.5	12.535	1.450	11.328	7.97	9.88	438	8.197	0
23.0	12.506	1.450	11.342	7.97	9.88	463	8.212	0
23.5	12.485	1.448	11.330	7.97	9.76	500	8.206	0

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Station: C2-2a **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.638	1.399	10.875	7.94	9.71	163	7.833	0
1.0	12.582	1.396	10.862	7.95	9.70	262	7.831	0
1.5	12.572	1.395	10.859	7.95	9.69	282	7.830	0
2.0	12.566	1.395	10.859	7.95	9.71	289	7.831	0
2.5	12.560	1.395	10.859	7.96	9.72	294	7.832	0
3.0	12.555	1.395	10.858	7.96	9.72	299	7.832	0
3.5	12.553	1.394	10.858	7.96	9.72	312	7.832	0
4.0	12.552	1.395	10.860	7.97	9.73	324	7.834	0
4.5	12.553	1.395	10.862	7.97	9.73	331	7.836	0
5.0	12.556	1.396	10.866	7.97	9.74	332	7.838	0
5.5	12.560	1.396	10.869	7.97	9.74	327	7.840	0
6.0	12.561	1.397	10.875	7.97	9.74	324	7.844	0
6.5	12.563	1.397	10.878	7.97	9.74	327	7.846	0
7.0	12.566	1.398	10.882	7.97	9.75	323	7.849	0
7.5	12.569	1.400	10.900	7.97	9.75	321	7.862	0
8.0	12.571	1.402	10.916	7.97	9.74	333	7.874	0
8.5	12.572	1.403	10.925	7.97	9.76	345	7.881	0
9.0	12.572	1.403	10.926	7.98	9.77	351	7.882	0
9.5	12.572	1.403	10.926	7.98	9.76	351	7.882	0
10.0	12.573	1.403	10.926	7.97	9.75	353	7.882	0
10.5	12.573	1.403	10.927	7.98	9.76	354	7.882	0
11.0	12.572	1.403	10.927	7.97	9.78	355	7.882	0
11.5	12.573	1.403	10.925	7.98	9.80	353	7.881	0
12.0	12.572	1.403	10.923	7.97	9.80	352	7.880	0
12.5	12.572	1.403	10.921	7.98	9.80	352	7.878	0
13.0	12.572	1.403	10.920	7.97	9.81	353	7.877	0
13.5	12.572	1.403	10.920	7.97	9.81	354	7.877	0
14.0	12.572	1.403	10.920	7.98	9.82	352	7.877	0
14.5	12.572	1.403	10.921	7.98	9.80	352	7.878	0
15.0	12.572	1.403	10.921	7.98	9.81	352	7.878	0
15.5	12.572	1.403	10.921	7.98	9.82	349	7.878	0
16.0	12.572	1.403	10.924	7.98	9.83	347	7.880	0
16.5	12.573	1.404	10.930	7.98	9.83	352	7.885	0
17.0	12.573	1.404	10.931	7.98	9.81	358	7.886	0
17.5	12.572	1.407	10.952	7.98	9.82	352	7.902	0
18.0	12.570	1.410	10.983	7.98	9.83	353	7.926	0
18.5	12.569	1.414	11.018	7.97	9.82	358	7.953	0
19.0	12.568	1.420	11.068	7.97	9.83	381	7.992	0
19.5	12.567	1.418	11.047	7.98	9.84	375	7.976	0
20.0	12.559	1.427	11.130	7.97	9.85	390	8.041	0
20.5	12.554	1.434	11.187	7.97	9.83	410	8.086	0
21.0	12.559	1.428	11.141	7.97	9.85	391	8.050	0
21.5	12.547	1.440	11.238	7.97	9.84	419	8.126	0
22.0	12.552	1.438	11.225	7.97	9.85	419	8.115	0
22.5	12.543	1.442	11.258	7.97	9.86	423	8.142	0
23.0	12.528	1.444	11.284	7.97	9.87	443	8.165	0
23.5	12.524	1.444	11.285	7.97	9.88	451	8.166	0
24.0	12.516	1.443	11.278	7.97	9.88	474	8.162	0
24.5	12.517	1.442	11.270	7.97	9.90	479	8.155	0
25.0	12.507	1.438	11.235	7.97	9.92	536	8.129	0

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Station: C2-2b **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.715	1.402	10.875	7.95	9.66	152	7.822	0
1.0	12.670	1.400	10.867	7.96	9.67	225	7.822	0
1.5	12.636	1.397	10.859	7.97	9.68	237	7.821	0
2.0	12.612	1.397	10.863	7.97	9.68	246	7.827	0
2.5	12.588	1.397	10.870	7.97	9.68	252	7.836	0
3.0	12.577	1.397	10.873	7.97	9.69	264	7.841	0
3.5	12.573	1.398	10.881	7.97	9.69	286	7.847	0
4.0	12.571	1.399	10.892	7.97	9.69	311	7.856	0
4.5	12.570	1.400	10.899	7.97	9.69	326	7.861	0
5.0	12.570	1.401	10.905	7.97	9.69	333	7.866	0
5.5	12.570	1.401	10.909	7.97	9.69	338	7.869	0
6.0	12.571	1.401	10.911	7.97	9.70	344	7.871	0
6.5	12.572	1.402	10.912	7.97	9.69	347	7.871	0
7.0	12.572	1.402	10.912	7.97	9.68	349	7.871	0
7.5	12.572	1.402	10.913	7.97	9.71	350	7.872	0
8.0	12.572	1.402	10.913	7.97	9.72	351	7.872	0
8.5	12.572	1.402	10.915	7.97	9.72	350	7.873	0
9.0	12.572	1.402	10.917	7.97	9.72	350	7.875	0
9.5	12.573	1.402	10.918	7.97	9.72	352	7.876	0
10.0	12.572	1.402	10.919	7.97	9.75	353	7.877	0
10.5	12.572	1.403	10.920	7.97	9.75	354	7.877	0
11.0	12.571	1.403	10.921	7.97	9.74	355	7.878	0
11.5	12.571	1.403	10.920	7.97	9.74	355	7.878	0
12.0	12.571	1.403	10.920	7.97	9.73	355	7.877	0
12.5	12.570	1.403	10.924	7.98	9.74	357	7.880	0
13.0	12.570	1.404	10.933	7.97	9.75	357	7.888	0
13.5	12.569	1.408	10.966	7.97	9.76	358	7.914	0
14.0	12.565	1.417	11.041	7.97	9.74	369	7.972	0
14.5	12.561	1.425	11.113	7.97	9.74	394	8.028	0
15.0	12.560	1.427	11.130	7.97	9.76	406	8.041	0
15.5	12.558	1.429	11.149	7.97	9.76	406	8.056	0
16.0	12.557	1.431	11.164	7.97	9.77	411	8.068	0
16.5	12.557	1.430	11.158	7.97	9.77	403	8.063	0
17.0	12.554	1.432	11.176	7.97	9.78	410	8.078	0
17.5	12.551	1.436	11.205	7.97	9.77	420	8.100	0
18.0	12.548	1.437	11.217	7.97	9.79	427	8.110	0
18.5	12.547	1.437	11.218	7.97	9.79	435	8.111	0
19.0	12.548	1.438	11.223	7.97	9.80	431	8.115	0
19.5	12.546	1.437	11.216	7.97	9.81	458	8.109	0
20.0	12.544	1.437	11.217	7.97	9.83	455	8.110	0
20.5	12.543	1.436	11.205	7.97	9.82	494	8.102	0
21.0	12.540	1.439	11.232	7.97	9.83	518	8.123	0
21.5	12.538	1.439	11.234	7.97	9.86	504	8.124	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-2c **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.674	1.402	10.883	7.97	9.67	195	7.834	0
1.0	12.659	1.402	10.887	7.96	9.69	257	7.839	0
1.5	12.640	1.402	10.896	7.96	9.68	266	7.849	0
2.0	12.609	1.402	10.908	7.97	9.67	293	7.863	0
2.5	12.581	1.403	10.920	7.97	9.68	324	7.876	0
3.0	12.573	1.403	10.927	7.97	9.69	341	7.882	0
3.5	12.572	1.404	10.933	7.97	9.68	348	7.887	0
4.0	12.572	1.404	10.937	7.97	9.68	353	7.890	0
4.5	12.571	1.405	10.940	7.97	9.67	355	7.893	0
5.0	12.570	1.405	10.944	7.97	9.69	356	7.896	0
5.5	12.571	1.406	10.949	7.97	9.70	357	7.899	0
6.0	12.571	1.407	10.956	7.98	9.71	358	7.905	0
6.5	12.569	1.408	10.970	7.97	9.72	360	7.916	0
7.0	12.567	1.411	10.992	7.98	9.70	362	7.933	0
7.5	12.567	1.413	11.013	7.97	9.69	364	7.950	0
8.0	12.566	1.415	11.025	7.97	9.71	371	7.959	0
8.5	12.565	1.416	11.037	7.97	9.73	373	7.969	0
9.0	12.564	1.418	11.056	7.97	9.73	382	7.983	0
9.5	12.564	1.420	11.067	7.97	9.74	389	7.992	0
10.0	12.564	1.420	11.068	7.97	9.74	394	7.993	0
10.5	12.564	1.419	11.060	7.97	9.74	383	7.986	0
11.0	12.562	1.422	11.083	7.97	9.75	383	8.004	0
11.5	12.564	1.422	11.084	7.97	9.76	399	8.005	0
12.0	12.564	1.421	11.078	7.97	9.76	389	8.001	0
12.5	12.562	1.424	11.103	7.97	9.75	388	8.020	0
13.0	12.561	1.426	11.122	7.97	9.75	398	8.035	0
13.5	12.559	1.429	11.144	7.97	9.76	407	8.052	0
14.0	12.560	1.427	11.129	7.97	9.78	405	8.040	0
14.5	12.556	1.427	11.128	7.97	9.78	453	8.040	0
15.0	12.557	1.427	11.133	7.97	9.78	499	8.044	0
15.5	12.556	1.426	11.124	7.97	9.80	460	8.037	0
16.0	12.555	1.425	11.113	7.97	9.80	476	8.028	0
16.5	12.557	1.430	11.155	7.97	9.79	456	8.060	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-3 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.573	1.388	10.802	7.95	9.70	326	7.786	0
1.0	12.572	1.388	10.794	7.96	9.70	343	7.780	0
1.5	12.572	1.387	10.793	7.96	9.72	343	7.780	0
2.0	12.570	1.387	10.791	7.96	9.71	344	7.778	0
2.5	12.569	1.387	10.790	7.96	9.73	346	7.778	0
3.0	12.569	1.387	10.794	7.96	9.73	349	7.781	0
3.5	12.570	1.388	10.796	7.97	9.75	345	7.782	0
4.0	12.569	1.387	10.788	7.97	9.73	344	7.776	0
4.5	12.565	1.385	10.775	7.97	9.74	346	7.767	0
5.0	12.561	1.384	10.764	7.97	9.74	350	7.759	0
5.5	12.558	1.383	10.762	7.97	9.77	356	7.758	0
6.0	12.552	1.383	10.765	7.98	9.78	353	7.761	0
6.5	12.547	1.383	10.764	7.97	9.77	347	7.761	0
7.0	12.540	1.381	10.745	7.98	9.77	349	7.747	0
7.5	12.537	1.378	10.722	7.98	9.76	353	7.730	0
8.0	12.535	1.374	10.691	7.97	9.78	356	7.706	0
8.5	12.534	1.370	10.653	7.98	9.78	359	7.677	0
9.0	12.534	1.366	10.621	7.98	9.78	371	7.653	0
9.5	12.536	1.370	10.657	7.98	9.81	389	7.680	0
10.0	12.541	1.377	10.711	7.98	9.81	383	7.720	0
10.5	12.543	1.380	10.737	7.98	9.81	368	7.740	0
11.0	12.542	1.380	10.740	7.98	9.79	358	7.743	0
11.5	12.541	1.379	10.733	7.98	9.80	358	7.738	0
12.0	12.541	1.379	10.729	7.98	9.81	358	7.735	0
12.5	12.539	1.379	10.728	7.98	9.83	359	7.734	0
13.0	12.534	1.377	10.718	7.98	9.83	360	7.727	0
13.5	12.528	1.372	10.676	7.98	9.83	361	7.696	0
14.0	12.517	1.363	10.598	7.98	9.83	368	7.637	0
14.5	12.509	1.353	10.523	7.98	9.84	380	7.580	0
15.0	12.502	1.344	10.448	7.99	9.86	385	7.523	0
15.5	12.508	1.346	10.460	7.99	9.86	392	7.532	0
16.0	12.520	1.357	10.549	7.98	9.85	389	7.599	0
16.5	12.527	1.367	10.629	7.98	9.84	378	7.660	0
17.0	12.528	1.367	10.632	7.98	9.84	370	7.662	0
17.5	12.527	1.366	10.623	7.98	9.85	376	7.655	0
18.0	12.522	1.366	10.624	7.98	9.88	370	7.656	0
18.5	12.509	1.355	10.539	7.98	9.89	372	7.592	0
19.0	12.501	1.346	10.458	7.98	9.89	383	7.532	0
19.5	12.496	1.340	10.414	7.98	9.90	394	7.498	0
20.0	12.494	1.338	10.395	7.99	9.89	398	7.484	0
20.5	12.499	1.339	10.403	7.99	9.90	400	7.490	0
21.0	12.506	1.345	10.452	7.98	9.91	396	7.526	0
21.5	12.507	1.347	10.472	7.98	9.92	385	7.542	0
22.0	12.507	1.346	10.462	7.98	9.91	388	7.534	0
22.5	12.513	1.349	10.485	7.98	9.92	390	7.550	0
23.0	12.521	1.359	10.562	7.98	9.92	384	7.609	0
23.5	12.519	1.359	10.563	7.98	9.92	380	7.610	0
24.0	12.517	1.356	10.537	7.98	9.93	382	7.590	0
24.5	12.521	1.358	10.557	7.98	9.94	381	7.605	0
25.0	12.521	1.360	10.573	7.98	9.93	376	7.617	0
25.5	12.521	1.358	10.560	7.98	9.93	379	7.607	0
26.0	12.524	1.361	10.577	7.98	9.91	377	7.620	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-3 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.530	1.366	10.621	7.98	9.93	372	7.653	0
27.0	12.531	1.367	10.630	7.98	9.92	371	7.659	0
27.5	12.529	1.367	10.633	7.98	9.95	371	7.662	0
28.0	12.519	1.364	10.607	7.98	9.96	370	7.644	0
28.5	12.509	1.354	10.526	7.98	9.97	380	7.583	0
29.0	12.496	1.343	10.439	7.98	9.98	392	7.517	0
29.5	12.486	1.333	10.357	7.99	9.98	399	7.456	0
30.0	12.479	1.331	10.342	7.98	10.00	399	7.446	0
30.5	12.472	1.324	10.284	7.99	9.99	411	7.401	0
31.0	12.471	1.323	10.273	7.99	10.00	412	7.393	0
31.5	12.471	1.322	10.266	7.99	10.02	413	7.388	0
32.0	12.470	1.322	10.269	7.99	10.03	413	7.390	0
32.5	12.470	1.322	10.267	7.99	10.03	413	7.389	0
33.0	12.472	1.322	10.267	7.99	10.02	415	7.389	0
33.5	12.474	1.323	10.278	7.99	10.02	414	7.396	0
34.0	12.476	1.325	10.293	7.99	10.03	413	7.408	0
34.5	12.476	1.326	10.295	7.99	10.03	411	7.409	0
35.0	12.476	1.326	10.295	7.99	10.03	412	7.409	0
35.5	12.477	1.327	10.302	7.98	10.05	420	7.415	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.468	1.238	9.571	7.98	9.83	277	6.852	0
1.0	12.494	1.283	9.939	7.98	9.77	288	7.132	0
1.5	12.509	1.317	10.218	7.97	9.74	323	7.345	0
2.0	12.516	1.327	10.297	7.97	9.74	337	7.405	0
2.5	12.522	1.333	10.345	7.97	9.75	338	7.442	0
3.0	12.525	1.336	10.375	7.97	9.74	341	7.464	0
3.5	12.529	1.340	10.402	7.97	9.73	342	7.484	0
4.0	12.532	1.343	10.432	7.97	9.73	343	7.507	0
4.5	12.533	1.346	10.458	7.97	9.73	343	7.527	0
5.0	12.535	1.349	10.478	7.98	9.73	344	7.542	0
5.5	12.535	1.350	10.488	7.97	9.73	346	7.549	0
6.0	12.534	1.350	10.489	7.98	9.75	344	7.550	0
6.5	12.533	1.350	10.490	7.98	9.74	343	7.552	0
7.0	12.534	1.351	10.496	7.98	9.75	343	7.556	0
7.5	12.536	1.352	10.508	7.98	9.76	346	7.565	0
8.0	12.536	1.354	10.520	7.98	9.76	347	7.575	0
8.5	12.537	1.356	10.535	7.98	9.73	347	7.586	0
9.0	12.537	1.357	10.548	7.98	9.72	348	7.595	0
9.5	12.538	1.359	10.565	7.98	9.76	353	7.609	0
10.0	12.537	1.360	10.574	7.98	9.76	353	7.615	0
10.5	12.536	1.360	10.572	7.98	9.78	355	7.614	0
11.0	12.533	1.358	10.555	7.98	9.79	356	7.602	0
11.5	12.532	1.358	10.552	7.98	9.80	357	7.599	0
12.0	12.531	1.358	10.553	7.98	9.81	358	7.600	0
12.5	12.534	1.360	10.572	7.98	9.78	359	7.614	0
13.0	12.538	1.364	10.604	7.98	9.78	356	7.638	0
13.5	12.541	1.366	10.621	7.98	9.80	353	7.651	0
14.0	12.542	1.367	10.632	7.98	9.80	355	7.660	0
14.5	12.544	1.369	10.648	7.98	9.81	356	7.672	0
15.0	12.545	1.371	10.664	7.98	9.81	357	7.683	0
15.5	12.548	1.373	10.674	7.98	9.82	357	7.691	0
16.0	12.549	1.373	10.680	7.98	9.82	358	7.695	0
16.5	12.548	1.373	10.680	7.98	9.83	356	7.696	0
17.0	12.548	1.373	10.679	7.98	9.81	356	7.695	0
17.5	12.549	1.374	10.682	7.98	9.83	355	7.697	0
18.0	12.550	1.375	10.689	7.98	9.84	354	7.702	0
18.5	12.551	1.375	10.694	7.98	9.83	354	7.706	0
19.0	12.552	1.375	10.694	7.98	9.84	356	7.706	0
19.5	12.552	1.375	10.689	7.97	9.86	357	7.702	0
20.0	12.552	1.374	10.683	7.98	9.86	359	7.698	0
20.5	12.551	1.374	10.680	7.98	9.86	360	7.695	0
21.0	12.551	1.373	10.678	7.98	9.85	359	7.694	0
21.5	12.550	1.373	10.678	7.98	9.86	361	7.694	0
22.0	12.550	1.373	10.679	7.98	9.88	359	7.694	0
22.5	12.551	1.374	10.680	7.98	9.88	357	7.695	0
23.0	12.551	1.374	10.682	7.98	9.88	358	7.697	0
23.5	12.550	1.374	10.681	7.98	9.89	360	7.696	0
24.0	12.550	1.373	10.675	7.98	9.88	360	7.691	0
24.5	12.550	1.372	10.669	7.98	9.90	362	7.687	0
25.0	12.549	1.372	10.662	7.98	9.92	364	7.682	0
25.5	12.549	1.370	10.653	7.98	9.89	366	7.675	0
26.0	12.549	1.370	10.653	7.98	9.88	366	7.674	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C2-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.551	1.371	10.654	7.98	9.88	368	7.675	0
27.0	12.565	1.377	10.700	7.98	9.88	377	7.709	0
27.5	12.572	1.381	10.737	7.98	9.89	384	7.736	0
28.0	12.576	1.383	10.753	7.98	9.90	384	7.748	0
28.5	12.572	1.381	10.738	7.97	9.92	378	7.737	0
29.0	12.579	1.383	10.750	7.98	9.92	387	7.745	0
29.5	12.580	1.384	10.761	7.97	9.95	401	7.754	0
30.0	12.580	1.385	10.768	7.97	9.94	397	7.759	0
30.5	12.586	1.386	10.777	7.97	9.88	429	7.765	0
31.0	12.589	1.386	10.772	7.97	9.85	469	7.761	0
31.5	12.589	1.382	10.740	7.97	9.90	513	7.736	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-1 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.796	1.516	11.816	7.96	9.59	108	8.535	0
1.0	12.715	1.520	11.870	7.96	9.57	154	8.588	0
1.5	12.707	1.531	11.965	7.96	9.58	206	8.663	0
2.0	12.708	1.535	12.001	7.95	9.57	217	8.690	0
2.5	12.707	1.537	12.016	7.95	9.58	216	8.702	0
3.0	12.706	1.539	12.034	7.95	9.59	208	8.716	0
3.5	12.703	1.542	12.061	7.96	9.59	207	8.737	0
4.0	12.698	1.544	12.082	7.96	9.61	208	8.754	0
4.5	12.694	1.545	12.091	7.96	9.59	210	8.761	0
5.0	12.692	1.546	12.094	7.96	9.59	213	8.764	0
5.5	12.689	1.546	12.101	7.96	9.61	214	8.770	0
6.0	12.682	1.548	12.118	7.96	9.61	214	8.784	0
6.5	12.669	1.553	12.169	7.96	9.59	217	8.825	0
7.0	12.658	1.559	12.216	7.96	9.60	218	8.863	0
7.5	12.640	1.562	12.248	7.96	9.62	218	8.891	0
8.0	12.625	1.566	12.289	7.96	9.60	217	8.925	0
8.5	12.616	1.566	12.293	7.97	9.61	214	8.929	0
9.0	12.606	1.570	12.327	7.97	9.62	214	8.957	0
9.5	12.600	1.572	12.345	7.97	9.60	214	8.972	0
10.0	12.589	1.574	12.367	7.97	9.61	215	8.990	0
10.5	12.556	1.579	12.423	7.96	9.62	220	9.038	0
11.0	12.516	1.589	12.522	7.96	9.66	225	9.121	0
11.5	12.519	1.591	12.538	7.96	9.64	224	9.133	0
12.0	12.515	1.592	12.546	7.96	9.66	228	9.140	0
12.5	12.491	1.595	12.582	7.96	9.65	235	9.171	0
13.0	12.468	1.600	12.634	7.96	9.65	243	9.214	0
13.5	12.473	1.600	12.629	7.96	9.66	241	9.209	0
14.0	12.485	1.597	12.601	7.96	9.68	240	9.186	0
14.5	12.475	1.599	12.621	7.96	9.66	242	9.203	0
15.0	12.469	1.601	12.640	7.96	9.67	243	9.219	0
15.5	12.473	1.600	12.628	7.96	9.68	241	9.209	0
16.0	12.472	1.600	12.629	7.96	9.68	240	9.209	0
16.5	12.468	1.601	12.635	7.96	9.69	243	9.215	0
17.0	12.464	1.602	12.645	7.96	9.68	243	9.223	0
17.5	12.465	1.602	12.645	7.96	9.70	245	9.223	0
18.0	12.457	1.603	12.660	7.96	9.69	249	9.236	0
18.5	12.446	1.606	12.693	7.96	9.68	252	9.263	0
19.0	12.438	1.609	12.714	7.96	9.70	256	9.280	0
19.5	12.435	1.610	12.726	7.96	9.69	257	9.290	0
20.0	12.434	1.610	12.726	7.96	9.70	258	9.290	0
20.5	12.434	1.610	12.728	7.96	9.70	257	9.292	0
21.0	12.434	1.610	12.726	7.96	9.71	260	9.290	0
21.5	12.436	1.609	12.720	7.96	9.73	261	9.286	0
22.0	12.437	1.609	12.719	7.96	9.73	262	9.284	0
22.5	12.439	1.609	12.719	7.96	9.72	263	9.284	0
23.0	12.442	1.608	12.708	7.96	9.71	268	9.275	0
23.5	12.443	1.605	12.684	7.96	9.72	276	9.256	0
24.0	12.447	1.605	12.675	7.96	9.72	292	9.249	0
24.5	12.456	1.598	12.620	7.96	9.72	305	9.205	0
25.0	12.453	1.599	12.625	7.96	9.74	301	9.209	0
25.5	12.463	1.593	12.574	7.96	9.75	316	9.169	0
26.0	12.472	1.587	12.519	7.96	9.77	337	9.124	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-1 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.476	1.584	12.493	7.96	9.78	342	9.104	0
27.0	12.478	1.584	12.490	7.96	9.78	344	9.102	0
27.5	12.478	1.584	12.488	7.96	9.80	348	9.100	0
28.0	12.481	1.582	12.469	7.96	9.81	353	9.085	0
28.5	12.487	1.575	12.406	7.96	9.78	391	9.035	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-2 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.867	1.503	11.678	7.96	9.66	105	8.417	0
1.0	12.804	1.516	11.808	7.96	9.66	140	8.527	0
1.5	12.757	1.523	11.884	7.96	9.66	150	8.592	0
2.0	12.725	1.531	11.958	7.96	9.64	167	8.655	0
2.5	12.701	1.535	12.006	7.96	9.64	194	8.695	0
3.0	12.684	1.540	12.051	7.96	9.66	203	8.732	0
3.5	12.664	1.548	12.121	7.96	9.66	208	8.790	0
4.0	12.634	1.555	12.195	7.96	9.67	214	8.850	0
4.5	12.607	1.560	12.246	7.96	9.66	218	8.895	0
5.0	12.575	1.566	12.307	7.96	9.63	227	8.946	0
5.5	12.561	1.569	12.338	7.96	9.64	232	8.972	0
6.0	12.560	1.570	12.341	7.96	9.66	233	8.975	0
6.5	12.559	1.569	12.337	7.97	9.67	234	8.972	0
7.0	12.545	1.571	12.358	7.96	9.67	236	8.990	0
7.5	12.541	1.572	12.364	7.97	9.66	241	8.995	0
8.0	12.532	1.572	12.371	7.96	9.68	244	9.002	0
8.5	12.511	1.574	12.396	7.96	9.66	247	9.025	0
9.0	12.526	1.573	12.382	7.96	9.67	238	9.012	0
9.5	12.549	1.571	12.356	7.96	9.69	228	8.988	0
10.0	12.552	1.571	12.352	7.97	9.70	231	8.984	0
10.5	12.538	1.572	12.367	7.97	9.67	239	8.998	0
11.0	12.526	1.573	12.381	7.97	9.68	241	9.011	0
11.5	12.521	1.574	12.387	7.96	9.71	240	9.016	0
12.0	12.512	1.574	12.396	7.96	9.71	249	9.024	0
12.5	12.475	1.576	12.427	7.97	9.72	277	9.053	0
13.0	12.454	1.580	12.467	7.96	9.71	288	9.088	0
13.5	12.443	1.592	12.568	7.96	9.73	282	9.167	0
14.0	12.440	1.595	12.595	7.96	9.73	277	9.188	0
14.5	12.439	1.596	12.609	7.96	9.72	274	9.199	0
15.0	12.439	1.597	12.612	7.96	9.72	274	9.202	0
15.5	12.439	1.596	12.607	7.96	9.73	277	9.198	0
16.0	12.439	1.596	12.605	7.96	9.71	276	9.196	0
16.5	12.440	1.596	12.604	7.96	9.73	275	9.196	0
17.0	12.441	1.596	12.601	7.96	9.74	276	9.193	0
17.5	12.442	1.596	12.608	7.96	9.73	277	9.198	0
18.0	12.443	1.598	12.620	7.96	9.74	284	9.207	0
18.5	12.447	1.594	12.588	7.96	9.73	288	9.182	0
19.0	12.447	1.594	12.589	7.96	9.74	287	9.182	0
19.5	12.445	1.596	12.606	7.96	9.74	288	9.196	0
20.0	12.446	1.596	12.607	7.96	9.75	296	9.196	0
20.5	12.453	1.594	12.579	7.96	9.76	314	9.174	0
21.0	12.459	1.590	12.546	7.96	9.76	318	9.148	0
21.5	12.458	1.591	12.554	7.96	9.77	310	9.154	0
22.0	12.459	1.591	12.552	7.96	9.77	312	9.152	0
22.5	12.461	1.590	12.543	7.96	9.78	316	9.145	0
23.0	12.463	1.589	12.533	7.96	9.78	328	9.137	0
23.5	12.465	1.587	12.518	7.96	9.78	336	9.125	0
24.0	12.467	1.584	12.496	7.96	9.78	356	9.108	0
24.5	12.468	1.582	12.475	7.96	9.80	377	9.092	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-3 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.614	1.550	12.154	7.96	9.66	159	8.822	0
1.0	12.540	1.558	12.253	7.96	9.64	214	8.909	0
1.5	12.519	1.564	12.304	7.96	9.63	234	8.952	0
2.0	12.515	1.565	12.314	7.96	9.65	245	8.960	0
2.5	12.514	1.565	12.316	7.96	9.65	248	8.962	0
3.0	12.511	1.565	12.317	7.96	9.64	249	8.964	0
3.5	12.508	1.565	12.320	7.96	9.63	250	8.966	0
4.0	12.505	1.565	12.323	7.96	9.62	253	8.969	0
4.5	12.501	1.565	12.325	7.96	9.65	256	8.971	0
5.0	12.501	1.565	12.326	7.96	9.66	263	8.972	0
5.5	12.501	1.565	12.326	7.97	9.65	262	8.971	0
6.0	12.496	1.565	12.327	7.96	9.68	266	8.973	0
6.5	12.484	1.565	12.331	7.96	9.68	273	8.978	0
7.0	12.478	1.566	12.334	7.97	9.67	277	8.981	0
7.5	12.475	1.565	12.333	7.96	9.69	284	8.981	0
8.0	12.472	1.565	12.333	7.96	9.68	287	8.982	0
8.5	12.469	1.565	12.334	7.97	9.70	291	8.982	0
9.0	12.467	1.565	12.332	7.97	9.69	297	8.982	0
9.5	12.466	1.565	12.332	7.97	9.71	294	8.982	0
10.0	12.462	1.564	12.329	7.97	9.71	309	8.980	0
10.5	12.463	1.564	12.324	7.97	9.71	311	8.976	0
11.0	12.461	1.563	12.321	7.96	9.72	309	8.974	0
11.5	12.461	1.563	12.318	7.97	9.72	311	8.972	0
12.0	12.461	1.563	12.316	7.97	9.72	313	8.970	0
12.5	12.461	1.563	12.314	7.96	9.73	314	8.969	0
13.0	12.461	1.562	12.310	7.97	9.75	316	8.966	0
13.5	12.461	1.562	12.307	7.97	9.75	318	8.963	0
14.0	12.461	1.562	12.306	7.96	9.74	318	8.962	0
14.5	12.461	1.562	12.306	7.97	9.75	319	8.963	0
15.0	12.460	1.562	12.306	7.97	9.75	320	8.962	0
15.5	12.460	1.562	12.305	7.96	9.74	322	8.962	0
16.0	12.459	1.562	12.304	7.97	9.76	322	8.961	0
16.5	12.459	1.562	12.305	7.96	9.76	322	8.962	0
17.0	12.459	1.562	12.307	7.97	9.77	322	8.963	0
17.5	12.460	1.562	12.307	7.97	9.78	322	8.963	0
18.0	12.460	1.562	12.306	7.97	9.78	322	8.962	0
18.5	12.460	1.562	12.305	7.97	9.77	323	8.962	0
19.0	12.460	1.562	12.306	7.97	9.77	325	8.963	0
19.5	12.460	1.562	12.308	7.97	9.77	325	8.964	0
20.0	12.460	1.562	12.310	7.97	9.80	326	8.965	0
20.5	12.460	1.563	12.313	7.97	9.80	327	8.968	0
21.0	12.460	1.563	12.311	7.97	9.80	326	8.967	0
21.5	12.460	1.563	12.311	7.97	9.81	327	8.967	0
22.0	12.459	1.563	12.316	7.97	9.81	328	8.970	0
22.5	12.460	1.564	12.319	7.96	9.83	327	8.973	0
23.0	12.460	1.563	12.315	7.96	9.82	329	8.969	0
23.5	12.460	1.563	12.313	7.96	9.82	329	8.968	0
24.0	12.460	1.563	12.316	7.97	9.83	329	8.970	0
24.5	12.460	1.564	12.320	7.96	9.84	328	8.973	0
25.0	12.460	1.564	12.325	7.96	9.84	328	8.977	0
25.5	12.459	1.564	12.327	7.97	9.83	329	8.979	0
26.0	12.458	1.565	12.333	7.96	9.83	331	8.984	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-3 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.457	1.566	12.342	7.97	9.85	332	8.990	0
27.0	12.457	1.566	12.345	7.96	9.84	333	8.993	0
27.5	12.457	1.567	12.346	7.97	9.84	333	8.994	0
28.0	12.458	1.566	12.341	7.97	9.85	332	8.990	0
28.5	12.458	1.566	12.340	7.96	9.83	332	8.989	0
29.0	12.458	1.566	12.342	7.96	9.83	332	8.990	0
29.5	12.457	1.567	12.345	7.96	9.86	332	8.993	0
30.0	12.457	1.567	12.351	7.97	9.87	336	8.997	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.767	1.468	11.419	7.97	9.61	175	8.233	0
1.0	12.768	1.468	11.417	7.97	9.61	202	8.231	0
1.5	12.766	1.466	11.395	7.97	9.61	199	8.215	0
2.0	12.765	1.461	11.357	7.97	9.62	198	8.186	0
2.5	12.764	1.457	11.326	7.97	9.62	198	8.162	0
3.0	12.761	1.456	11.313	7.96	9.63	199	8.152	0
3.5	12.758	1.452	11.280	7.97	9.63	200	8.127	0
4.0	12.756	1.449	11.260	7.97	9.63	202	8.112	0
4.5	12.756	1.451	11.271	7.97	9.64	204	8.120	0
5.0	12.757	1.454	11.300	7.97	9.64	205	8.143	0
5.5	12.757	1.460	11.347	7.97	9.64	202	8.179	0
6.0	12.755	1.468	11.415	7.97	9.63	201	8.231	0
6.5	12.751	1.473	11.463	7.97	9.64	200	8.270	0
7.0	12.744	1.476	11.487	7.97	9.66	199	8.289	0
7.5	12.730	1.476	11.490	7.97	9.66	200	8.293	0
8.0	12.711	1.476	11.502	7.97	9.64	206	8.305	0
8.5	12.692	1.478	11.520	7.97	9.65	212	8.322	0
9.0	12.676	1.479	11.534	7.97	9.67	219	8.335	0
9.5	12.658	1.479	11.541	7.97	9.67	227	8.344	0
10.0	12.631	1.479	11.546	7.97	9.66	234	8.351	0
10.5	12.610	1.478	11.549	7.97	9.66	240	8.356	0
11.0	12.596	1.480	11.563	7.97	9.67	258	8.369	0
11.5	12.584	1.481	11.578	7.97	9.68	283	8.383	0
12.0	12.580	1.481	11.577	7.97	9.69	292	8.382	0
12.5	12.579	1.480	11.571	7.97	9.66	291	8.378	0
13.0	12.583	1.479	11.564	7.97	9.67	297	8.372	0
13.5	12.591	1.479	11.557	7.97	9.69	305	8.365	0
14.0	12.591	1.479	11.562	7.97	9.70	299	8.369	0
14.5	12.569	1.485	11.614	7.97	9.70	284	8.413	0
15.0	12.556	1.489	11.655	7.97	9.69	288	8.446	0
15.5	12.552	1.492	11.685	7.97	9.69	297	8.470	0
16.0	12.554	1.494	11.702	7.97	9.70	301	8.483	0
16.5	12.555	1.496	11.715	7.97	9.70	300	8.493	0
17.0	12.561	1.496	11.715	7.97	9.68	300	8.492	0
17.5	12.567	1.496	11.711	7.97	9.70	297	8.488	0
18.0	12.571	1.496	11.711	7.97	9.70	292	8.487	0
18.5	12.575	1.497	11.720	7.97	9.69	290	8.494	0
19.0	12.582	1.501	11.748	7.97	9.70	291	8.514	0
19.5	12.587	1.504	11.774	7.97	9.70	293	8.534	0
20.0	12.591	1.506	11.786	7.97	9.70	280	8.542	0
20.5	12.592	1.504	11.773	7.97	9.69	275	8.532	0
21.0	12.587	1.505	11.777	7.97	9.69	280	8.535	0
21.5	12.575	1.505	11.784	7.97	9.70	278	8.543	0
22.0	12.570	1.504	11.780	7.97	9.71	286	8.540	0
22.5	12.571	1.504	11.773	7.97	9.73	293	8.535	0
23.0	12.579	1.508	11.805	7.97	9.73	294	8.558	0
23.5	12.584	1.515	11.864	7.97	9.72	290	8.603	0
24.0	12.585	1.515	11.862	7.97	9.73	285	8.601	0
24.5	12.586	1.509	11.814	7.97	9.74	281	8.564	0
25.0	12.602	1.511	11.828	7.97	9.73	278	8.573	0
25.5	12.620	1.519	11.890	7.96	9.72	277	8.618	0
26.0	12.611	1.533	12.012	7.96	9.72	274	8.713	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: C3-4 **Date: 6/24/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.612	1.537	12.044	7.96	9.72	293	8.738	0
27.0	12.645	1.542	12.075	7.96	9.73	278	8.757	0
27.5	12.583	1.515	11.870	7.97	9.77	282	8.608	0
28.0	12.548	1.504	11.784	7.97	9.78	296	8.547	0
28.5	12.548	1.503	11.776	7.97	9.79	298	8.541	0
29.0	12.543	1.507	11.810	7.97	9.79	296	8.568	0
29.5	12.533	1.517	11.894	7.97	9.78	296	8.634	0
30.0	12.527	1.524	11.964	7.97	9.77	302	8.689	0
30.5	12.527	1.526	11.975	7.97	9.78	305	8.697	0
31.0	12.529	1.525	11.970	7.97	9.79	303	8.693	0
31.5	12.530	1.524	11.959	7.97	9.79	303	8.685	0
32.0	12.530	1.523	11.951	7.97	9.80	302	8.679	0
32.5	12.529	1.524	11.956	7.97	9.81	302	8.682	0
33.0	12.527	1.525	11.969	7.97	9.80	302	8.693	0
33.5	12.524	1.529	12.000	7.97	9.81	304	8.717	0
34.0	12.524	1.531	12.020	7.97	9.80	305	8.732	0
34.5	12.523	1.532	12.029	7.97	9.81	305	8.740	0
35.0	12.522	1.533	12.040	7.97	9.84	304	8.748	0
35.5	12.520	1.535	12.054	7.97	9.83	304	8.759	0
36.0	12.520	1.536	12.066	7.96	9.84	304	8.768	0
36.5	12.520	1.537	12.075	7.97	9.85	303	8.776	0
37.0	12.518	1.538	12.083	7.97	9.82	303	8.782	0
37.5	12.514	1.540	12.097	7.97	9.81	307	8.793	0
38.0	12.507	1.544	12.131	7.97	9.84	311	8.821	0
38.5	12.505	1.545	12.145	7.96	9.85	313	8.832	0
39.0	12.508	1.543	12.129	7.97	9.85	311	8.819	0
39.5	12.509	1.542	12.120	7.97	9.84	310	8.812	0
40.0	12.508	1.543	12.126	7.97	9.85	311	8.817	0
40.5	12.505	1.544	12.139	7.96	9.84	312	8.827	0
41.0	12.504	1.546	12.151	7.96	9.86	313	8.836	0
41.5	12.502	1.547	12.164	7.96	9.87	316	8.847	0
42.0	12.501	1.548	12.171	7.96	9.88	319	8.852	0
42.5	12.500	1.548	12.173	7.96	9.87	317	8.854	0
43.0	12.499	1.548	12.175	7.96	9.88	315	8.855	0
43.5	12.499	1.549	12.178	7.96	9.89	316	8.858	0
44.0	12.499	1.549	12.181	7.96	9.91	316	8.860	0
44.5	12.499	1.549	12.181	7.96	9.90	315	8.860	0
45.0	12.498	1.550	12.185	7.96	9.90	315	8.863	0
45.5	12.497	1.551	12.193	7.97	9.90	315	8.870	0
46.0	12.494	1.551	12.199	7.96	9.92	319	8.875	0
46.5	12.495	1.551	12.195	7.96	9.93	319	8.872	0
47.0	12.493	1.551	12.201	7.96	9.91	318	8.877	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E1-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.359	1.583	12.526	7.94	9.68	162	9.147	0
1.0	12.369	1.591	12.585	7.95	9.69	189	9.191	0
1.5	12.373	1.602	12.678	7.95	9.68	224	9.262	0
2.0	12.372	1.607	12.728	7.95	9.68	248	9.301	0
2.5	12.368	1.613	12.778	7.95	9.69	269	9.340	0
3.0	12.360	1.621	12.846	7.95	9.70	273	9.393	0
3.5	12.353	1.638	13.000	7.95	9.69	291	9.513	0
4.0	12.343	1.652	13.121	7.95	9.69	336	9.609	0
4.5	12.339	1.658	13.178	7.95	9.69	354	9.653	0
5.0	12.339	1.659	13.184	7.95	9.70	353	9.657	0
5.5	12.340	1.657	13.170	7.95	9.69	354	9.647	0
6.0	12.338	1.657	13.168	7.95	9.68	355	9.645	0
6.5	12.333	1.661	13.207	7.96	9.70	352	9.676	0
7.0	12.327	1.667	13.261	7.96	9.72	349	9.719	0
7.5	12.325	1.670	13.282	7.95	9.73	345	9.735	0
8.0	12.325	1.671	13.290	7.96	9.73	341	9.742	0
8.5	12.325	1.671	13.292	7.95	9.74	341	9.743	0
9.0	12.325	1.671	13.291	7.96	9.74	342	9.742	0
9.5	12.326	1.671	13.291	7.96	9.73	342	9.742	0
10.0	12.327	1.671	13.291	7.95	9.73	343	9.742	0
10.5	12.326	1.671	13.290	7.95	9.74	343	9.741	0
11.0	12.327	1.671	13.290	7.95	9.74	343	9.741	0
11.5	12.328	1.670	13.280	7.96	9.75	347	9.733	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E1-2 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.370	1.596	12.633	7.94	9.66	211	9.228	0
1.0	12.372	1.599	12.658	7.94	9.69	218	9.247	0
1.5	12.370	1.605	12.710	7.94	9.69	234	9.287	0
2.0	12.367	1.612	12.774	7.94	9.69	256	9.337	0
2.5	12.365	1.615	12.795	7.95	9.69	269	9.354	0
3.0	12.363	1.618	12.822	7.94	9.70	276	9.374	0
3.5	12.355	1.626	12.894	7.95	9.69	288	9.431	0
4.0	12.339	1.641	13.028	7.95	9.72	295	9.537	0
4.5	12.324	1.658	13.179	7.95	9.72	318	9.656	0
5.0	12.313	1.665	13.243	7.96	9.71	339	9.707	0
5.5	12.297	1.675	13.334	7.96	9.69	337	9.780	0
6.0	12.288	1.681	13.390	7.96	9.72	335	9.824	0
6.5	12.279	1.684	13.420	7.96	9.73	335	9.848	0
7.0	12.261	1.694	13.511	7.96	9.73	329	9.922	0
7.5	12.245	1.702	13.592	7.97	9.73	318	9.986	0
8.0	12.235	1.707	13.640	7.96	9.73	315	10.024	0
8.5	12.229	1.711	13.670	7.96	9.72	305	10.049	0
9.0	12.224	1.712	13.685	7.96	9.75	307	10.061	0
9.5	12.209	1.720	13.758	7.97	9.74	307	10.120	0
10.0	12.195	1.725	13.807	7.96	9.75	300	10.160	0
10.5	12.179	1.735	13.900	7.97	9.77	293	10.234	0
11.0	12.143	1.749	14.033	7.97	9.77	275	10.342	0
11.5	12.094	1.778	14.309	7.96	9.74	246	10.562	0
12.0	12.076	1.788	14.402	7.96	9.76	230	10.636	0
12.5	12.053	1.798	14.500	7.96	9.76	215	10.716	0
13.0	12.037	1.806	14.575	7.96	9.77	210	10.776	0
13.5	12.023	1.813	14.638	7.96	9.78	206	10.827	0
14.0	12.004	1.822	14.727	7.96	9.79	203	10.898	0
14.5	11.975	1.838	14.882	7.96	9.80	207	11.022	0
15.0	11.951	1.850	14.992	7.96	9.79	213	11.111	0

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Station: E1-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.351	1.607	12.729	7.95	9.68	191	9.305	0
1.0	12.315	1.630	12.941	7.95	9.70	245	9.474	0
1.5	12.248	1.678	13.381	7.95	9.72	275	9.823	0
2.0	12.208	1.705	13.633	7.96	9.71	279	10.023	0
2.5	12.179	1.722	13.784	7.96	9.72	273	10.144	0
3.0	12.147	1.735	13.911	7.96	9.70	268	10.247	0
3.5	12.117	1.742	13.985	7.96	9.72	269	10.308	0
4.0	12.071	1.765	14.208	7.97	9.73	250	10.488	0
4.5	12.039	1.779	14.337	7.97	9.72	232	10.592	0
5.0	12.007	1.795	14.488	7.97	9.74	220	10.713	0
5.5	11.981	1.803	14.574	7.97	9.74	203	10.784	0
6.0	11.953	1.815	14.690	7.97	9.75	195	10.877	0
6.5	11.935	1.821	14.752	7.97	9.74	187	10.928	0
7.0	11.913	1.828	14.818	7.97	9.76	182	10.982	0
7.5	11.893	1.837	14.909	7.96	9.76	175	11.055	0
8.0	11.876	1.843	14.967	7.97	9.77	172	11.102	0
8.5	11.861	1.849	15.021	7.96	9.75	171	11.146	0
9.0	11.855	1.852	15.049	7.96	9.76	171	11.169	0
9.5	11.852	1.853	15.059	7.96	9.78	171	11.177	0
10.0	11.849	1.854	15.069	7.96	9.77	171	11.186	0
10.5	11.847	1.854	15.075	7.96	9.77	171	11.190	0
11.0	11.845	1.855	15.084	7.96	9.76	172	11.197	0
11.5	11.843	1.856	15.089	7.96	9.77	173	11.202	0
12.0	11.842	1.856	15.090	7.96	9.78	173	11.203	0
12.5	11.841	1.856	15.095	7.96	9.78	178	11.206	0
13.0	11.841	1.856	15.095	7.96	9.79	178	11.207	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E1-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.220	1.681	13.420	7.95	9.67	121	9.857	0
1.0	12.195	1.705	13.632	7.95	9.69	176	10.024	0
1.5	12.162	1.722	13.799	7.95	9.69	214	10.158	0
2.0	12.132	1.734	13.914	7.95	9.70	214	10.251	0
2.5	12.106	1.744	14.007	7.95	9.70	209	10.327	0
3.0	12.081	1.751	14.079	7.95	9.71	201	10.386	0
3.5	12.051	1.758	14.151	7.95	9.71	189	10.446	0
4.0	12.029	1.766	14.226	7.95	9.74	178	10.507	0
4.5	12.002	1.774	14.307	7.96	9.73	169	10.574	0
5.0	11.969	1.783	14.404	7.96	9.73	165	10.654	0
5.5	11.932	1.797	14.541	7.96	9.76	168	10.765	0
6.0	11.888	1.813	14.699	7.97	9.76	170	10.894	0
6.5	11.857	1.826	14.824	7.97	9.77	164	10.995	0
7.0	11.848	1.837	14.924	7.97	9.75	147	11.073	0
7.5	11.842	1.841	14.962	7.96	9.75	132	11.104	0
8.0	11.831	1.849	15.035	7.96	9.75	126	11.161	0
8.5	11.818	1.855	15.094	7.96	9.75	126	11.209	0
9.0	11.813	1.858	15.123	7.96	9.75	134	11.232	0
9.5	11.811	1.860	15.144	7.96	9.75	143	11.249	0
10.0	11.807	1.862	15.163	7.96	9.76	153	11.264	0
10.5	11.806	1.864	15.175	7.96	9.76	167	11.273	0
11.0	11.806	1.864	15.178	7.96	9.77	181	11.275	0
11.5	11.806	1.864	15.178	7.96	9.77	179	11.276	0
12.0	11.806	1.864	15.180	7.96	9.78	186	11.277	0
12.5	11.805	1.864	15.180	7.96	9.80	189	11.277	0
13.0	11.806	1.864	15.177	7.96	9.81	176	11.275	0
13.5	11.806	1.864	15.177	7.96	9.79	172	11.275	0
14.0	11.806	1.864	15.178	7.96	9.80	177	11.276	0
14.5	11.806	1.864	15.180	7.96	9.80	185	11.277	0
15.0	11.805	1.864	15.181	7.96	9.81	188	11.278	0
15.5	11.805	1.864	15.182	7.96	9.81	194	11.279	0
16.0	11.805	1.864	15.183	7.96	9.82	203	11.279	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E2-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.342	1.658	13.174	7.95	9.66	269	9.649	0
1.0	12.340	1.658	13.176	7.96	9.65	269	9.651	0
1.5	12.339	1.658	13.176	7.96	9.68	264	9.651	0
2.0	12.339	1.658	13.176	7.96	9.68	265	9.651	0
2.5	12.339	1.658	13.175	7.96	9.70	268	9.651	0
3.0	12.340	1.658	13.175	7.96	9.70	268	9.650	0
3.5	12.340	1.658	13.175	7.96	9.70	271	9.651	0
4.0	12.339	1.658	13.177	7.96	9.71	270	9.652	0
4.5	12.339	1.658	13.177	7.96	9.70	274	9.652	0
5.0	12.339	1.658	13.177	7.96	9.71	275	9.652	0
5.5	12.339	1.658	13.179	7.96	9.72	269	9.653	0
6.0	12.338	1.658	13.179	7.96	9.72	268	9.654	0
6.5	12.338	1.658	13.180	7.96	9.70	266	9.654	0
7.0	12.338	1.659	13.180	7.96	9.73	268	9.655	0
7.5	12.337	1.659	13.181	7.96	9.74	269	9.656	0
8.0	12.336	1.659	13.184	7.96	9.73	266	9.658	0
8.5	12.336	1.659	13.186	7.96	9.73	267	9.659	0
9.0	12.336	1.659	13.188	7.96	9.74	268	9.661	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E2-2 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.347	1.659	13.179	7.96	9.47	277	9.652	0
1.0	12.346	1.659	13.179	7.96	9.52	282	9.653	0
1.5	12.346	1.659	13.179	7.96	9.58	284	9.653	0
2.0	12.347	1.659	13.179	7.96	9.59	281	9.652	0
2.5	12.346	1.659	13.179	7.96	9.59	275	9.653	0
3.0	12.345	1.659	13.180	7.96	9.60	273	9.654	0
3.5	12.346	1.659	13.181	7.96	9.60	272	9.654	0
4.0	12.346	1.659	13.182	7.96	9.60	273	9.655	0
4.5	12.346	1.659	13.183	7.96	9.63	273	9.656	0
5.0	12.345	1.659	13.185	7.96	9.66	273	9.657	0
5.5	12.344	1.660	13.187	7.96	9.66	273	9.659	0
6.0	12.343	1.660	13.192	7.96	9.66	281	9.663	0
6.5	12.343	1.661	13.196	7.96	9.64	283	9.666	0
7.0	12.342	1.661	13.198	7.96	9.65	278	9.668	0
7.5	12.342	1.661	13.200	7.96	9.68	278	9.670	0
8.0	12.342	1.661	13.200	7.96	9.69	275	9.669	0
8.5	12.341	1.661	13.200	7.96	9.68	275	9.669	0
9.0	12.341	1.661	13.196	7.96	9.69	272	9.667	0
9.5	12.341	1.661	13.196	7.96	9.72	271	9.667	0
10.0	12.341	1.661	13.199	7.96	9.69	272	9.669	0
10.5	12.340	1.661	13.201	7.96	9.72	273	9.671	0
11.0	12.340	1.661	13.200	7.96	9.73	276	9.670	0
11.5	12.340	1.661	13.199	7.96	9.74	281	9.669	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E2-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.346	1.673	13.306	7.95	9.64	250	9.751	0
1.0	12.344	1.673	13.305	7.96	9.63	255	9.750	0
1.5	12.339	1.673	13.304	7.95	9.64	256	9.750	0
2.0	12.334	1.673	13.305	7.95	9.64	259	9.752	0
2.5	12.332	1.673	13.309	7.96	9.66	258	9.755	0
3.0	12.332	1.673	13.311	7.96	9.67	257	9.757	0
3.5	12.332	1.673	13.310	7.96	9.69	258	9.756	0
4.0	12.331	1.673	13.310	7.96	9.69	258	9.756	0
4.5	12.332	1.673	13.311	7.96	9.69	258	9.756	0
5.0	12.332	1.673	13.310	7.96	9.68	262	9.756	0
5.5	12.332	1.673	13.312	7.96	9.68	265	9.757	0
6.0	12.331	1.674	13.317	7.96	9.68	267	9.762	0
6.5	12.329	1.674	13.321	7.96	9.70	263	9.765	0
7.0	12.329	1.675	13.324	7.96	9.71	263	9.767	0
7.5	12.329	1.675	13.324	7.96	9.71	259	9.767	0
8.0	12.330	1.675	13.323	7.96	9.71	263	9.766	0
8.5	12.330	1.675	13.322	7.96	9.72	261	9.765	0
9.0	12.330	1.674	13.320	7.96	9.72	258	9.764	0
9.5	12.330	1.674	13.318	7.96	9.72	257	9.762	0
10.0	12.330	1.674	13.317	7.96	9.71	256	9.761	0
10.5	12.331	1.674	13.316	7.96	9.72	256	9.760	0
11.0	12.331	1.674	13.315	7.96	9.73	258	9.759	0
11.5	12.331	1.674	13.314	7.96	9.73	262	9.759	0
12.0	12.330	1.674	13.315	7.96	9.74	267	9.760	0
12.5	12.330	1.674	13.315	7.96	9.73	271	9.760	0
13.0	12.331	1.674	13.311	7.96	9.74	271	9.757	0
13.5	12.332	1.673	13.308	7.96	9.76	268	9.754	0
14.0	12.332	1.673	13.307	7.96	9.76	267	9.753	0
14.5	12.331	1.673	13.308	7.96	9.75	262	9.754	0
15.0	12.331	1.673	13.310	7.96	9.76	269	9.756	0
15.5	12.331	1.674	13.311	7.96	9.77	261	9.756	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E2-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.349	1.669	13.267	7.96	9.65	250	9.720	0
1.0	12.343	1.670	13.276	7.96	9.65	257	9.728	0
1.5	12.332	1.670	13.286	7.96	9.66	264	9.737	0
2.0	12.332	1.670	13.283	7.96	9.68	265	9.735	0
2.5	12.333	1.670	13.278	7.96	9.68	265	9.731	0
3.0	12.332	1.670	13.278	7.96	9.67	266	9.731	0
3.5	12.330	1.671	13.290	7.96	9.67	267	9.741	0
4.0	12.331	1.670	13.285	7.96	9.68	264	9.737	0
4.5	12.332	1.670	13.285	7.96	9.66	263	9.736	0
5.0	12.331	1.670	13.285	7.96	9.66	265	9.736	0
5.5	12.331	1.670	13.284	7.96	9.65	265	9.736	0
6.0	12.331	1.670	13.284	7.96	9.65	265	9.736	0
6.5	12.332	1.670	13.282	7.96	9.67	261	9.734	0
7.0	12.330	1.671	13.289	7.96	9.69	262	9.740	0
7.5	12.328	1.671	13.293	7.96	9.69	263	9.743	0
8.0	12.324	1.673	13.309	7.96	9.70	265	9.756	0
8.5	12.323	1.674	13.317	7.96	9.68	265	9.763	0
9.0	12.323	1.674	13.315	7.96	9.69	268	9.761	0
9.5	12.321	1.674	13.319	7.96	9.70	266	9.765	0
10.0	12.320	1.675	13.324	7.96	9.70	264	9.769	0
10.5	12.318	1.675	13.328	7.96	9.72	266	9.772	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E3-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.482	1.587	12.515	7.96	9.69	201	9.120	0
1.0	12.479	1.587	12.515	7.96	9.71	227	9.121	0
1.5	12.478	1.587	12.515	7.96	9.70	229	9.121	0
2.0	12.476	1.586	12.513	7.96	9.71	229	9.120	0
2.5	12.477	1.586	12.508	7.96	9.71	229	9.116	0
3.0	12.477	1.585	12.502	7.96	9.72	229	9.111	0
3.5	12.476	1.584	12.496	7.96	9.72	231	9.106	0
4.0	12.477	1.584	12.494	7.96	9.72	234	9.105	0
4.5	12.476	1.584	12.492	7.96	9.73	239	9.104	0
5.0	12.476	1.585	12.504	7.96	9.73	237	9.113	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E3-2 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.494	1.568	12.354	7.95	9.71	215	8.995	0
1.0	12.490	1.568	12.353	7.95	9.71	235	8.994	0
1.5	12.488	1.568	12.349	7.95	9.72	229	8.991	0
2.0	12.485	1.569	12.361	7.95	9.73	231	9.001	0
2.5	12.485	1.570	12.370	7.96	9.72	237	9.008	0
3.0	12.485	1.570	12.372	7.96	9.73	241	9.010	0
3.5	12.485	1.570	12.368	7.96	9.72	237	9.007	0
4.0	12.487	1.569	12.363	7.96	9.73	238	9.002	0
4.5	12.486	1.569	12.363	7.96	9.75	237	9.003	0
5.0	12.485	1.570	12.369	7.96	9.76	238	9.008	0
5.5	12.483	1.570	12.374	7.96	9.76	239	9.011	0
6.0	12.482	1.571	12.379	7.96	9.76	238	9.015	0
6.5	12.480	1.571	12.383	7.96	9.75	242	9.019	0
7.0	12.481	1.571	12.383	7.96	9.77	242	9.018	0
7.5	12.481	1.571	12.383	7.96	9.77	238	9.019	0
8.0	12.481	1.572	12.384	7.96	9.76	240	9.019	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E3-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.507	1.573	12.386	7.95	9.69	179	9.017	0
1.0	12.497	1.572	12.386	7.95	9.70	223	9.019	0
1.5	12.494	1.572	12.389	7.95	9.72	228	9.021	0
2.0	12.492	1.573	12.390	7.95	9.72	229	9.022	0
2.5	12.492	1.573	12.391	7.95	9.71	232	9.023	0
3.0	12.491	1.573	12.392	7.95	9.72	240	9.024	0
3.5	12.490	1.573	12.393	7.95	9.72	239	9.025	0
4.0	12.491	1.573	12.394	7.95	9.74	244	9.026	0
4.5	12.490	1.573	12.395	7.95	9.75	239	9.026	0
5.0	12.490	1.573	12.395	7.95	9.75	240	9.027	0
5.5	12.491	1.573	12.394	7.95	9.74	246	9.026	0
6.0	12.491	1.573	12.393	7.95	9.74	246	9.025	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: E3-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.503	1.577	12.425	7.95	9.70	183	9.048	0
1.0	12.494	1.578	12.435	7.95	9.70	217	9.057	0
1.5	12.492	1.578	12.440	7.95	9.71	240	9.061	0
2.0	12.491	1.579	12.443	7.95	9.70	251	9.063	0
2.5	12.491	1.579	12.444	7.95	9.72	250	9.064	0
3.0	12.492	1.579	12.446	7.95	9.73	255	9.065	0
3.5	12.492	1.579	12.445	7.95	9.72	252	9.065	0
4.0	12.491	1.580	12.450	7.95	9.72	258	9.069	0
4.5	12.490	1.580	12.454	7.95	9.73	268	9.072	0
5.0	12.489	1.580	12.454	7.95	9.74	266	9.072	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F1-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.650	1.439	11.203	7.97	9.78	199	8.084	0
1.0	12.648	1.440	11.211	7.97	9.78	205	8.090	0
1.5	12.648	1.439	11.208	7.97	9.80	204	8.088	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F1-2 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.784	1.491	11.601	7.87	9.73	142	8.370	0
1.0	12.779	1.488	11.581	7.87	9.74	150	8.356	0
1.5	12.778	1.487	11.573	7.87	9.75	150	8.350	0
2.0	12.778	1.486	11.565	7.88	9.75	150	8.344	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F1-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.814	1.482	11.518	7.89	9.75	110	8.302	0
1.0	12.804	1.479	11.500	7.89	9.76	144	8.290	0
1.5	12.795	1.479	11.502	7.90	9.76	154	8.292	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F1-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.900	1.499	11.638	7.94	9.74	68	8.381	0
1.0	12.845	1.515	11.788	7.95	9.72	93	8.505	0
1.5	12.858	1.534	11.943	7.95	9.70	132	8.623	0
2.0	12.877	1.545	12.034	7.95	9.68	151	8.690	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F2-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.777	1.568	12.255	7.95	9.70	319	8.875	0
1.0	12.775	1.568	12.257	7.95	9.71	323	8.878	0
1.5	12.773	1.568	12.257	7.95	9.69	325	8.877	0
2.0	12.771	1.567	12.256	7.95	9.72	327	8.877	0
2.5	12.769	1.567	12.248	7.95	9.73	328	8.871	0
3.0	12.769	1.566	12.242	7.95	9.72	325	8.867	0
3.5	12.769	1.566	12.243	7.95	9.71	325	8.868	0
4.0	12.768	1.566	12.244	7.95	9.72	325	8.868	0
4.5	12.768	1.565	12.239	7.95	9.72	324	8.865	0
5.0	12.768	1.565	12.232	7.95	9.72	325	8.859	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F2-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.814	1.558	12.163	7.95	9.70	291	8.799	0
1.0	12.810	1.556	12.147	7.95	9.70	311	8.787	0
1.5	12.810	1.555	12.140	7.95	9.69	331	8.782	0
2.0	12.810	1.555	12.139	7.95	9.72	331	8.781	0
2.5	12.809	1.554	12.130	7.95	9.73	329	8.775	0
3.0	12.808	1.553	12.120	7.95	9.72	329	8.767	0
3.5	12.806	1.552	12.109	7.95	9.73	333	8.758	0
4.0	12.804	1.549	12.089	7.95	9.74	343	8.744	0
4.5	12.804	1.548	12.082	7.95	9.73	354	8.738	0
5.0	12.809	1.550	12.095	7.95	9.74	370	8.747	0
5.5	12.814	1.552	12.112	7.95	9.73	378	8.760	0
6.0	12.818	1.554	12.124	7.95	9.75	385	8.768	0
6.5	12.826	1.560	12.178	7.95	9.75	385	8.809	0
7.0	12.834	1.567	12.234	7.95	9.76	386	8.850	0
7.5	12.839	1.573	12.283	7.95	9.74	388	8.887	0
8.0	12.847	1.580	12.337	7.95	9.74	394	8.928	0
8.5	12.853	1.586	12.383	7.95	9.75	396	8.962	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F2-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.806	1.492	11.605	7.96	9.75	80	8.370	0
1.0	12.756	1.498	11.672	7.96	9.74	105	8.429	0
1.5	12.762	1.509	11.761	7.96	9.74	152	8.497	0
2.0	12.786	1.519	11.839	7.95	9.73	175	8.553	0
2.5	12.799	1.523	11.871	7.95	9.74	194	8.577	0
3.0	12.813	1.529	11.917	7.95	9.73	194	8.609	0
3.5	12.822	1.536	11.971	7.95	9.74	195	8.650	0
4.0	12.821	1.541	12.014	7.95	9.74	198	8.683	0
4.5	12.815	1.545	12.049	7.95	9.73	210	8.711	0
5.0	12.806	1.548	12.079	7.95	9.75	233	8.736	0
5.5	12.801	1.550	12.099	7.95	9.74	260	8.751	0
6.0	12.799	1.551	12.110	7.95	9.76	290	8.761	0
6.5	12.798	1.552	12.117	7.95	9.75	302	8.766	0
7.0	12.798	1.553	12.121	7.95	9.76	301	8.769	0
7.5	12.798	1.552	12.117	7.95	9.77	324	8.766	0
8.0	12.798	1.552	12.111	7.95	9.77	343	8.761	0
8.5	12.799	1.550	12.099	7.95	9.77	359	8.752	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F3-1 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.484	1.582	12.477	7.96	9.68	241	9.090	0
1.0	12.484	1.582	12.474	7.97	9.71	258	9.089	0
1.5	12.484	1.582	12.473	7.97	9.71	259	9.088	0
2.0	12.484	1.582	12.472	7.96	9.70	261	9.087	0
2.5	12.484	1.581	12.467	7.96	9.71	259	9.083	0
3.0	12.486	1.580	12.455	7.96	9.72	261	9.073	0
3.5	12.485	1.580	12.455	7.96	9.73	262	9.074	0
4.0	12.485	1.581	12.467	7.96	9.72	261	9.083	0
4.5	12.484	1.582	12.474	7.96	9.72	261	9.088	0
5.0	12.484	1.582	12.472	7.96	9.73	262	9.087	0
5.5	12.485	1.582	12.472	7.96	9.75	265	9.087	0
6.0	12.485	1.582	12.470	7.96	9.75	262	9.085	0
6.5	12.485	1.582	12.470	7.96	9.75	266	9.085	0
7.0	12.485	1.582	12.470	7.96	9.76	269	9.085	0
7.5	12.486	1.580	12.457	7.96	9.77	270	9.075	0
8.0	12.487	1.579	12.446	7.96	9.76	269	9.066	0
8.5	12.487	1.578	12.440	7.96	9.77	268	9.061	0
9.0	12.488	1.578	12.440	7.96	9.77	275	9.061	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F3-2 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.497	1.561	12.287	7.96	9.72	243	8.942	0
1.0	12.498	1.560	12.278	7.96	9.73	273	8.936	0
1.5	12.498	1.560	12.280	7.96	9.74	273	8.936	0
2.0	12.498	1.560	12.282	7.96	9.73	274	8.938	0
2.5	12.498	1.560	12.277	7.96	9.75	276	8.934	0
3.0	12.499	1.559	12.276	7.96	9.76	274	8.933	0
3.5	12.498	1.560	12.277	7.96	9.74	272	8.934	0
4.0	12.499	1.559	12.274	7.96	9.76	279	8.932	0
4.5	12.499	1.559	12.272	7.96	9.75	279	8.930	0
5.0	12.498	1.560	12.284	7.96	9.74	276	8.940	0
5.5	12.498	1.561	12.291	7.96	9.76	277	8.945	0
6.0	12.497	1.562	12.296	7.96	9.76	281	8.949	0
6.5	12.498	1.562	12.298	7.96	9.77	282	8.950	0
7.0	12.499	1.562	12.294	7.96	9.76	278	8.948	0
7.5	12.500	1.560	12.279	7.96	9.79	277	8.936	0
8.0	12.502	1.559	12.267	7.96	9.80	277	8.926	0
8.5	12.501	1.557	12.250	7.96	9.78	281	8.913	0
9.0	12.501	1.557	12.255	7.96	9.80	284	8.917	0
9.5	12.500	1.558	12.261	7.96	9.79	284	8.922	0
10.0	12.502	1.558	12.259	7.96	9.80	282	8.920	0
10.5	12.503	1.557	12.254	7.96	9.81	282	8.916	0
11.0	12.505	1.555	12.233	7.96	9.81	283	8.899	0
11.5	12.505	1.554	12.223	7.96	9.81	287	8.892	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F3-3 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.499	1.553	12.225	7.96	9.72	268	8.894	0
1.0	12.503	1.554	12.228	7.97	9.71	277	8.896	0
1.5	12.505	1.555	12.234	7.97	9.71	280	8.900	0
2.0	12.491	1.565	12.323	7.97	9.72	278	8.971	0
2.5	12.472	1.580	12.456	7.96	9.69	274	9.076	0
3.0	12.468	1.586	12.514	7.97	9.71	276	9.122	0
3.5	12.487	1.571	12.379	7.97	9.75	278	9.015	0
4.0	12.487	1.566	12.333	7.97	9.75	280	8.979	0
4.5	12.488	1.569	12.357	7.97	9.74	279	8.998	0
5.0	12.482	1.577	12.429	7.97	9.74	277	9.054	0
5.5	12.466	1.587	12.518	7.97	9.74	274	9.125	0
6.0	12.465	1.589	12.536	7.97	9.75	274	9.139	0
6.5	12.461	1.591	12.557	7.97	9.75	272	9.156	0
7.0	12.437	1.607	12.706	7.97	9.75	269	9.274	0
7.5	12.425	1.618	12.803	7.97	9.74	269	9.351	0
8.0	12.419	1.622	12.835	7.96	9.75	270	9.377	0
8.5	12.412	1.627	12.885	7.97	9.73	270	9.416	0
9.0	12.406	1.633	12.935	7.96	9.73	271	9.456	0
9.5	12.410	1.632	12.927	7.97	9.75	272	9.448	0
10.0	12.423	1.620	12.817	7.96	9.76	270	9.362	0
10.5	12.419	1.621	12.832	7.96	9.77	270	9.374	0
11.0	12.409	1.631	12.915	7.96	9.77	270	9.440	0
11.5	12.404	1.635	12.956	7.96	9.75	270	9.472	0
12.0	12.403	1.636	12.964	7.96	9.77	272	9.478	0
12.5	12.402	1.637	12.969	7.96	9.79	273	9.482	0
13.0	12.402	1.637	12.973	7.96	9.80	274	9.486	0
13.5	12.401	1.638	12.977	7.96	9.79	274	9.489	0
14.0	12.400	1.638	12.980	7.96	9.78	273	9.491	0
14.5	12.400	1.638	12.984	7.96	9.79	275	9.494	0
15.0	12.400	1.638	12.981	7.96	9.80	276	9.492	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

Station: F3-4 **Date: 6/23/2009**

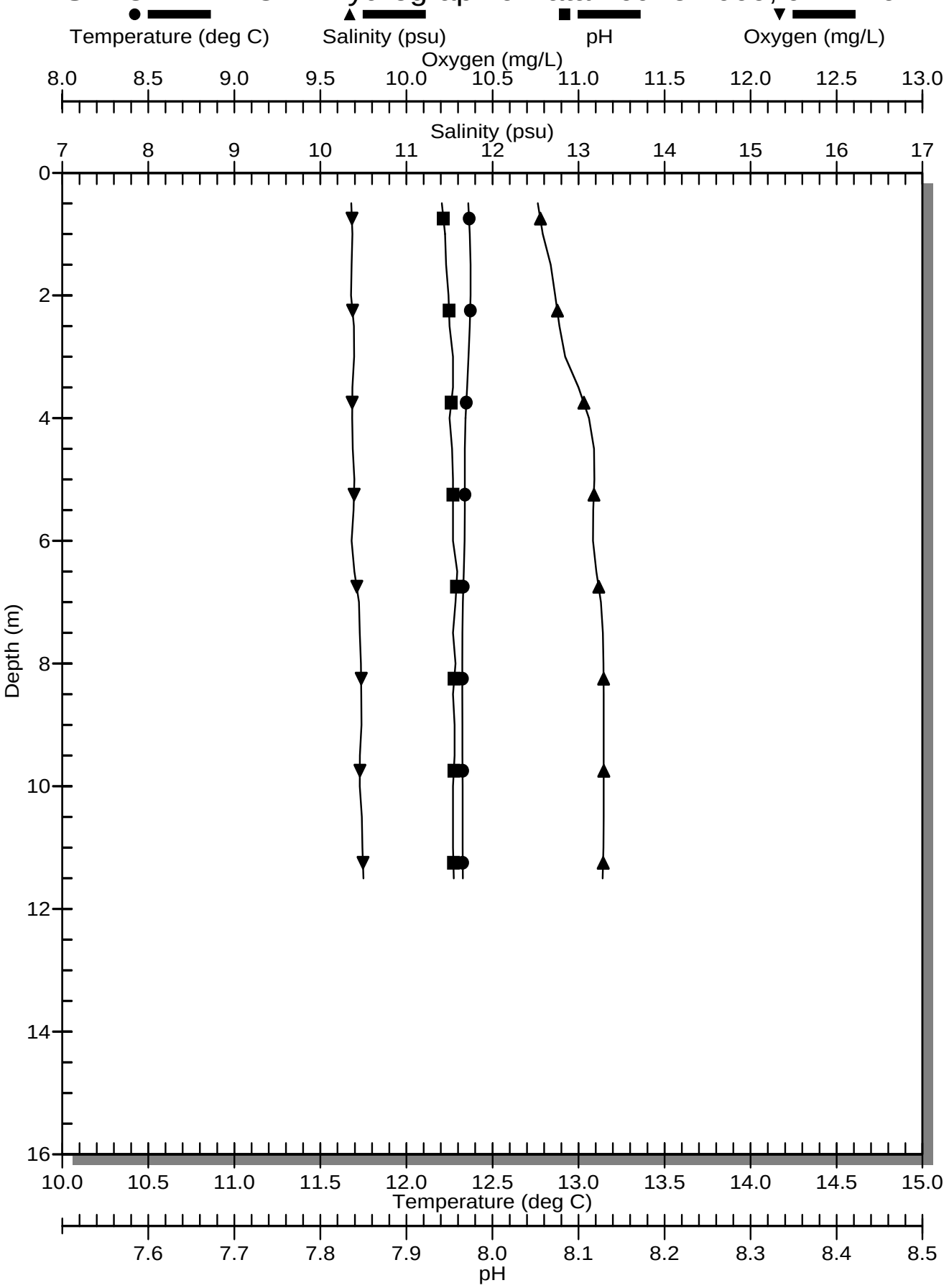
Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
0.5	12.459	1.584	12.503	7.96	9.61	277	9.114	0
1.0	12.461	1.586	12.513	7.96	9.61	294	9.122	0
1.5	12.464	1.586	12.513	7.96	9.61	298	9.121	0
2.0	12.467	1.585	12.508	7.96	9.63	300	9.118	0
2.5	12.468	1.586	12.511	7.96	9.63	302	9.119	0
3.0	12.468	1.586	12.515	7.96	9.63	307	9.123	0
3.5	12.470	1.586	12.516	7.96	9.64	309	9.123	0
4.0	12.471	1.587	12.517	7.96	9.65	310	9.123	0
4.5	12.470	1.587	12.521	7.96	9.65	310	9.127	0
5.0	12.470	1.587	12.521	7.96	9.65	312	9.126	0
5.5	12.470	1.587	12.520	7.96	9.66	312	9.126	0
6.0	12.470	1.587	12.522	7.96	9.66	312	9.128	0
6.5	12.470	1.588	12.526	7.96	9.65	305	9.130	0
7.0	12.469	1.588	12.531	7.96	9.68	304	9.135	0
7.5	12.468	1.589	12.539	7.96	9.70	305	9.141	0
8.0	12.467	1.590	12.548	7.96	9.70	302	9.148	0
8.5	12.468	1.591	12.552	7.96	9.70	306	9.151	0
9.0	12.468	1.591	12.555	7.96	9.72	307	9.154	0
9.5	12.467	1.592	12.559	7.96	9.69	304	9.157	0
10.0	12.468	1.592	12.561	7.96	9.71	305	9.158	0
10.5	12.470	1.591	12.550	7.96	9.69	313	9.149	0
11.0	12.470	1.590	12.543	7.96	9.73	317	9.144	0
11.5	12.469	1.590	12.546	7.96	9.73	313	9.146	0
12.0	12.467	1.593	12.571	7.96	9.73	314	9.166	0
12.5	12.467	1.594	12.583	7.96	9.72	313	9.175	0
13.0	12.464	1.596	12.600	7.96	9.73	310	9.189	0
13.5	12.463	1.599	12.623	7.96	9.74	307	9.206	0
14.0	12.466	1.595	12.591	7.96	9.73	309	9.181	0
14.5	12.469	1.591	12.553	7.96	9.76	315	9.151	0
15.0	12.470	1.590	12.542	7.96	9.75	319	9.143	0
15.5	12.470	1.590	12.545	7.96	9.75	320	9.145	0
16.0	12.469	1.590	12.548	7.96	9.75	320	9.148	0
16.5	12.470	1.591	12.550	7.96	9.76	321	9.149	0
17.0	12.469	1.591	12.555	7.96	9.76	317	9.153	0
17.5	12.469	1.591	12.556	7.96	9.77	318	9.154	0
18.0	12.469	1.592	12.557	7.96	9.77	320	9.155	0
18.5	12.468	1.593	12.571	7.96	9.75	320	9.165	0
19.0	12.468	1.594	12.577	7.96	9.75	316	9.170	0
19.5	12.467	1.594	12.578	7.96	9.78	312	9.171	0
20.0	12.467	1.594	12.576	7.96	9.79	314	9.170	0
20.5	12.467	1.594	12.576	7.96	9.80	314	9.170	0
21.0	12.466	1.594	12.578	7.96	9.79	313	9.171	0
21.5	12.466	1.595	12.583	7.96	9.81	316	9.175	0
22.0	12.468	1.595	12.584	7.96	9.82	317	9.176	0
22.5	12.467	1.594	12.581	7.96	9.81	316	9.174	0
23.0	12.468	1.594	12.582	7.96	9.80	317	9.174	0
23.5	12.465	1.596	12.598	7.96	9.80	318	9.187	0
24.0	12.465	1.597	12.603	7.96	9.81	312	9.191	0
24.5	12.466	1.597	12.600	7.96	9.83	312	9.188	0
25.0	12.466	1.597	12.601	7.96	9.83	309	9.189	0
25.5	12.464	1.597	12.606	7.96	9.83	308	9.193	0
26.0	12.464	1.598	12.611	7.96	9.83	307	9.197	0

Asplund WPCF - 2009 Receiving Water Hydrographic Data

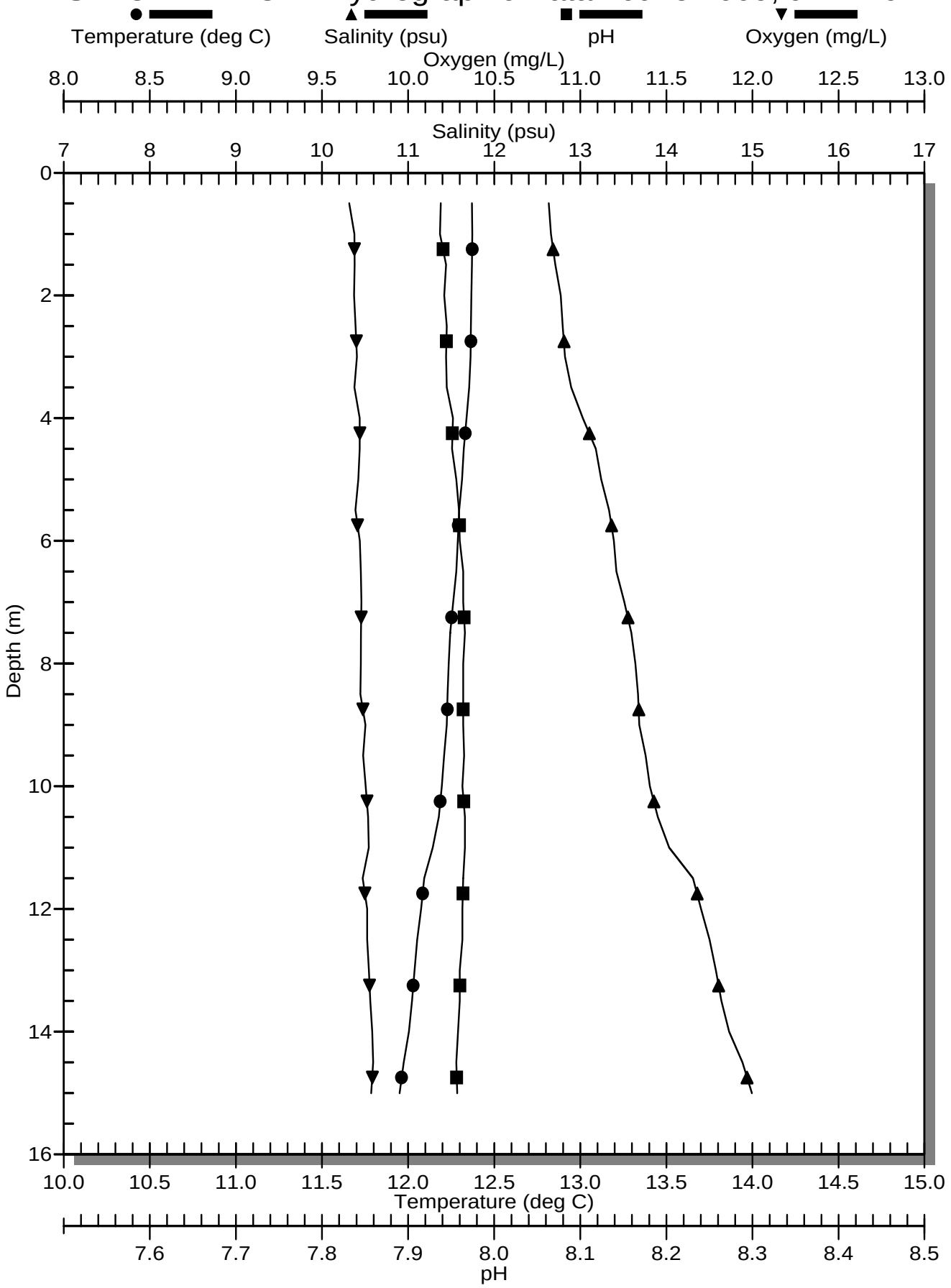
Station: F3-4 **Date: 6/23/2009**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Turbidity (ntu)	Sigma-t	Flag
26.5	12.464	1.598	12.615	7.96	9.86	308	9.200	0
27.0	12.464	1.598	12.614	7.96	9.86	309	9.200	0
27.5	12.464	1.598	12.609	7.96	9.85	310	9.195	0
28.0	12.465	1.597	12.605	7.96	9.84	310	9.192	0
28.5	12.465	1.597	12.599	7.96	9.84	311	9.188	0
29.0	12.465	1.596	12.596	7.96	9.86	311	9.185	0
29.5	12.465	1.596	12.592	7.97	9.87	314	9.182	0
30.0	12.465	1.596	12.592	7.96	9.88	312	9.182	0
30.5	12.465	1.596	12.595	7.96	9.88	313	9.184	0
31.0	12.464	1.596	12.597	7.96	9.88	314	9.186	0
31.5	12.465	1.596	12.597	7.96	9.88	313	9.186	0
32.0	12.465	1.596	12.597	7.96	9.89	314	9.186	0
32.5	12.466	1.596	12.596	7.96	9.90	315	9.185	0
33.0	12.466	1.596	12.593	7.96	9.87	319	9.183	0
33.5	12.466	1.596	12.590	7.96	9.87	318	9.180	0
34.0	12.466	1.594	12.580	7.96	9.88	320	9.173	0
34.5	12.467	1.593	12.567	7.97	9.90	324	9.162	0
35.0	12.468	1.592	12.559	7.96	9.90	324	9.157	0
35.5	12.469	1.591	12.554	7.96	9.91	332	9.152	0
36.0	12.470	1.590	12.544	7.96	9.92	335	9.145	0
36.5	12.471	1.589	12.530	7.96	9.93	345	9.134	0
37.0	12.474	1.586	12.509	7.96	9.93	343	9.117	0

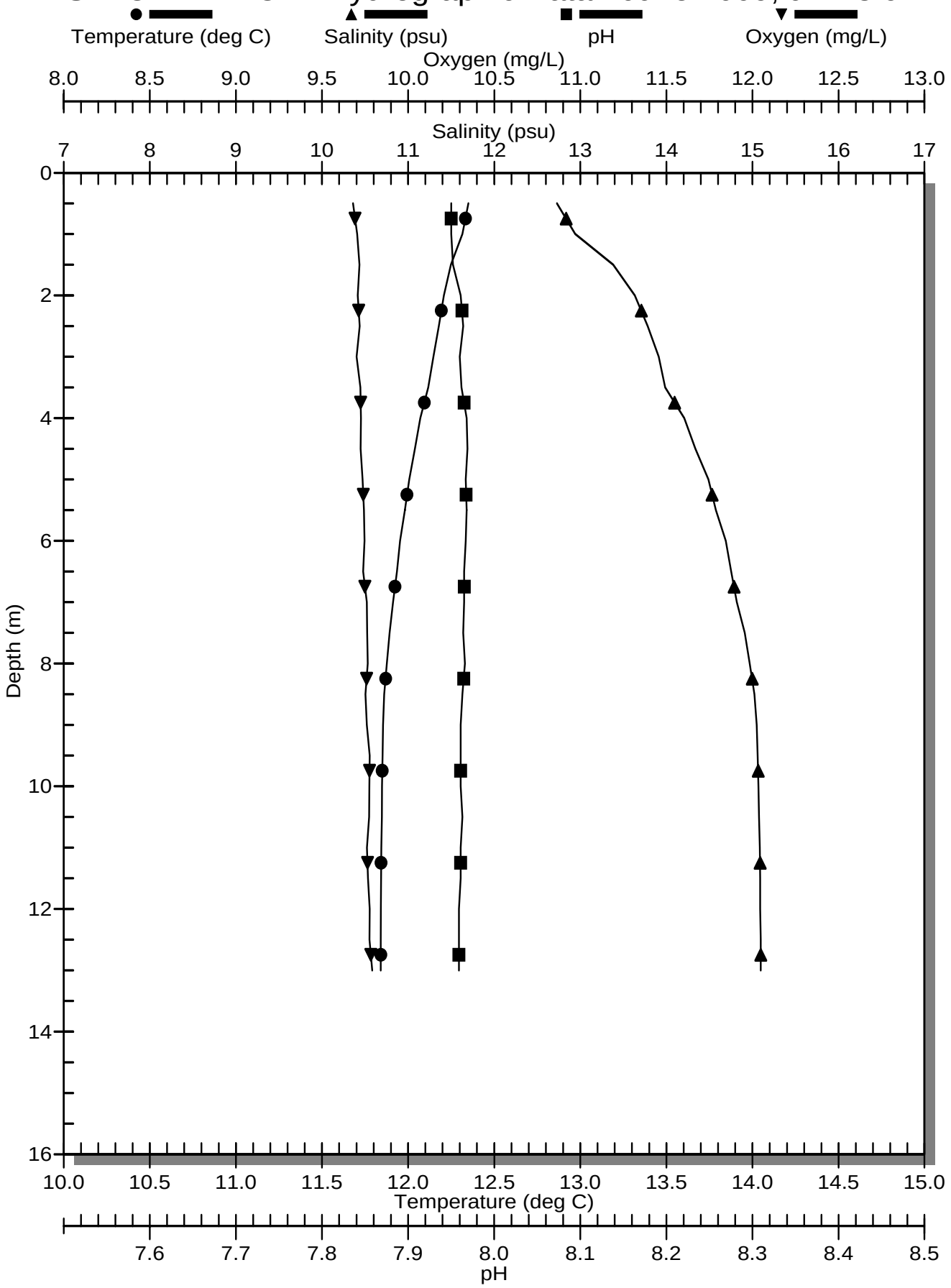
ASPLUND WPCF - Hydrographic Data - June 2009, uE1-1.cnv



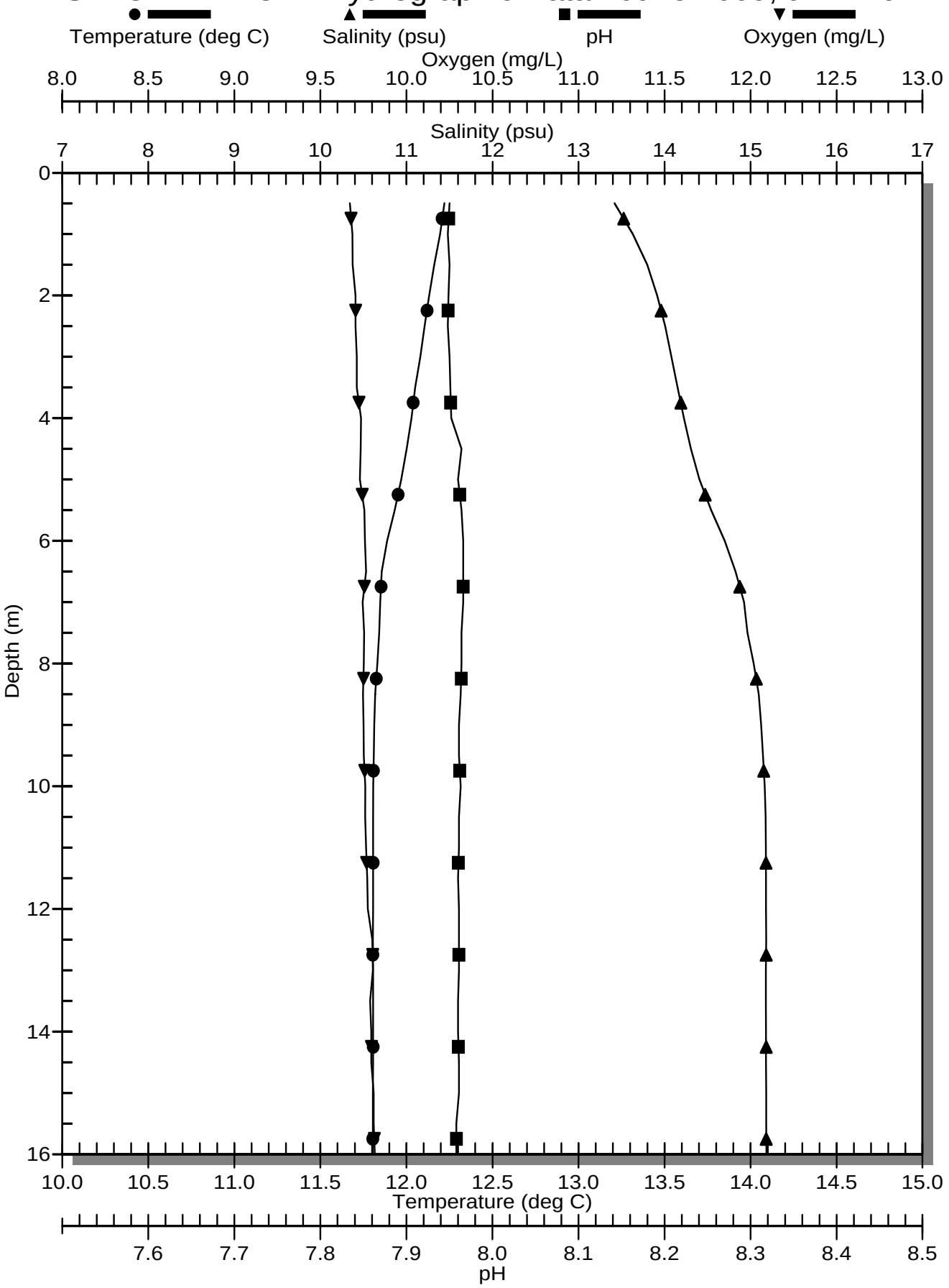
ASPLUND WPCF - Hydrographic Data - June 2009, uE1-2.cnv



ASPLUND WPCF - Hydrographic Data - June 2009, uE1-3.cnv



ASPLUND WPCF - Hydrographic Data - June 2009, uE1-4.cnv



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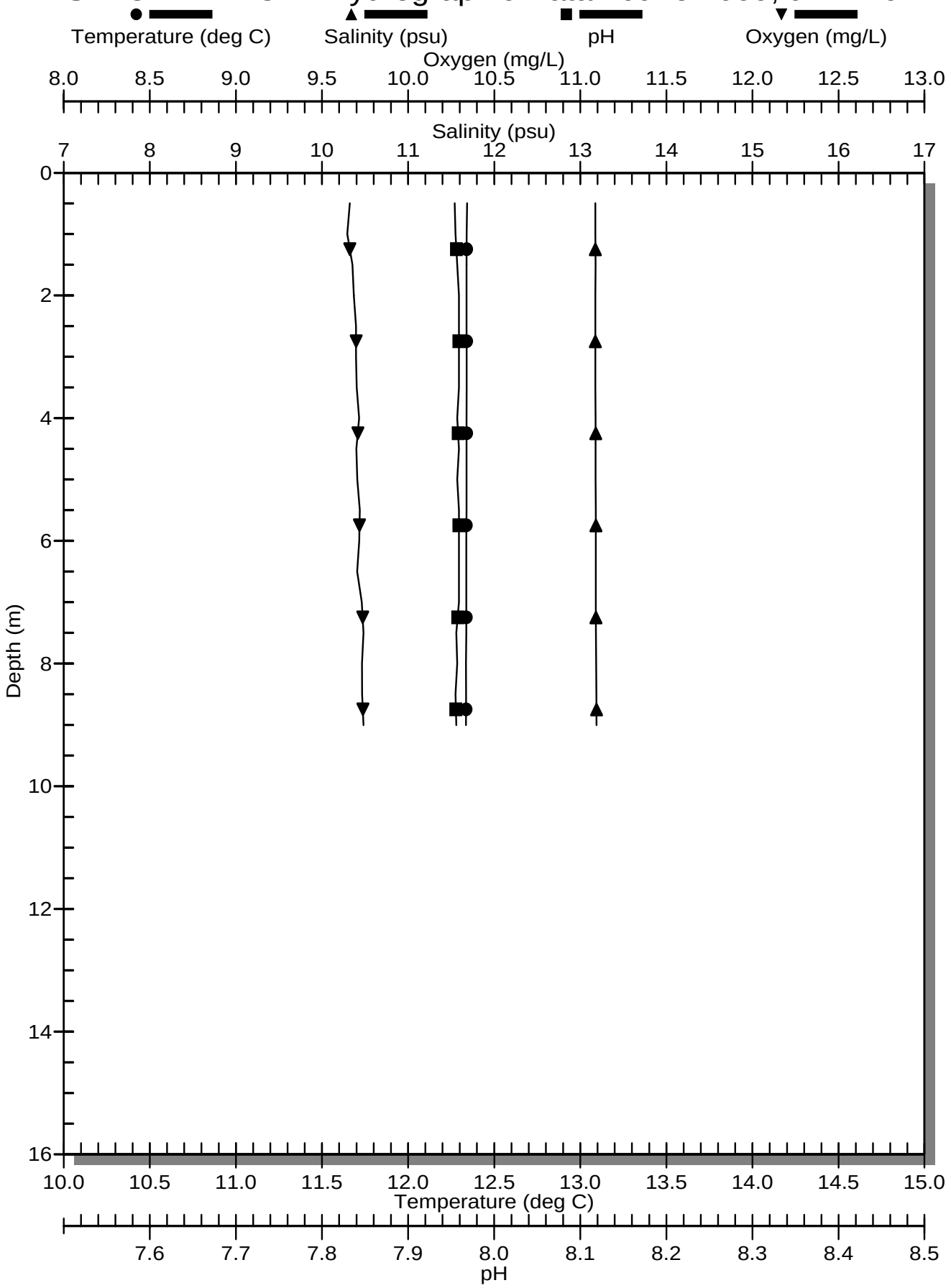
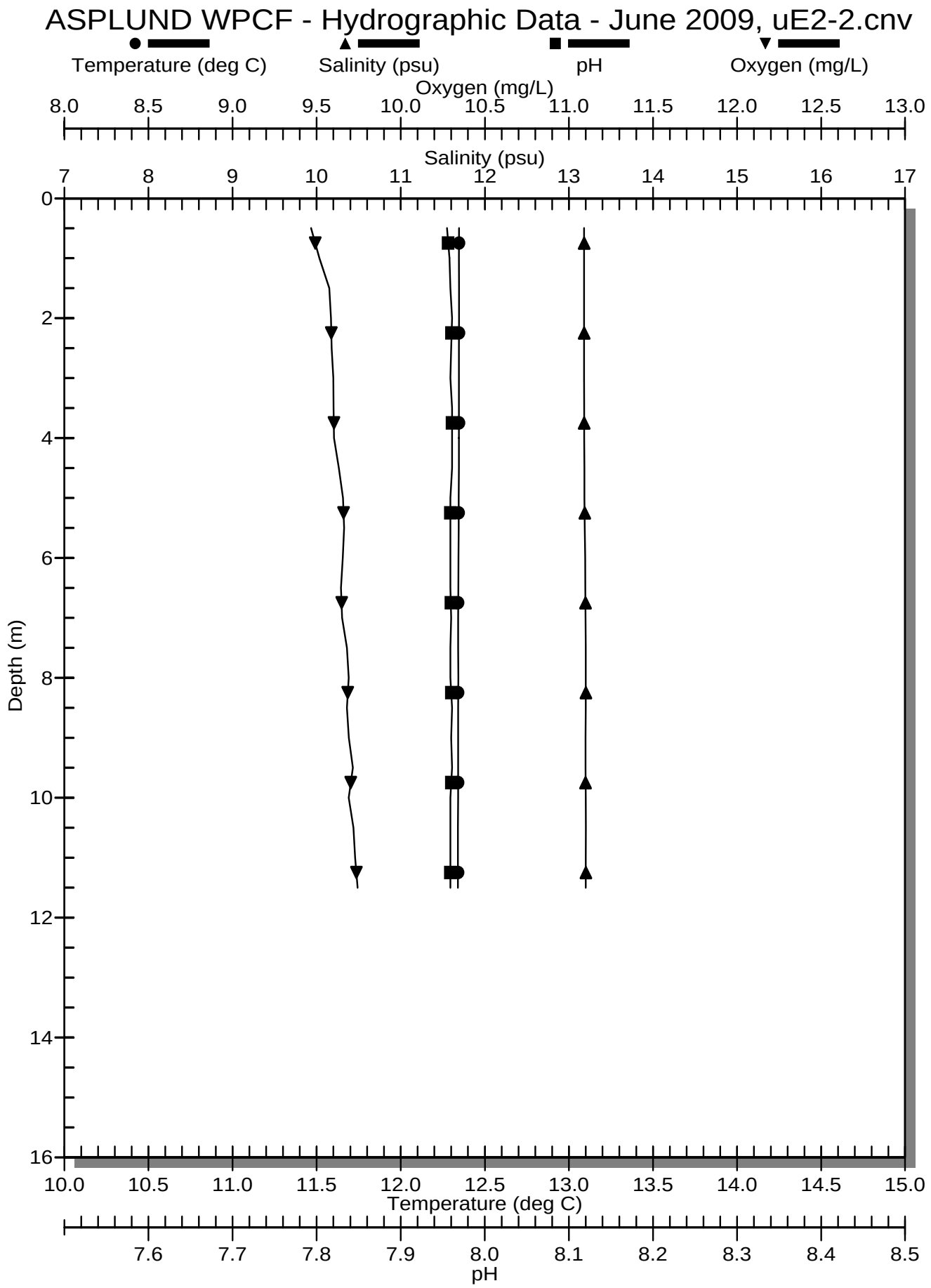
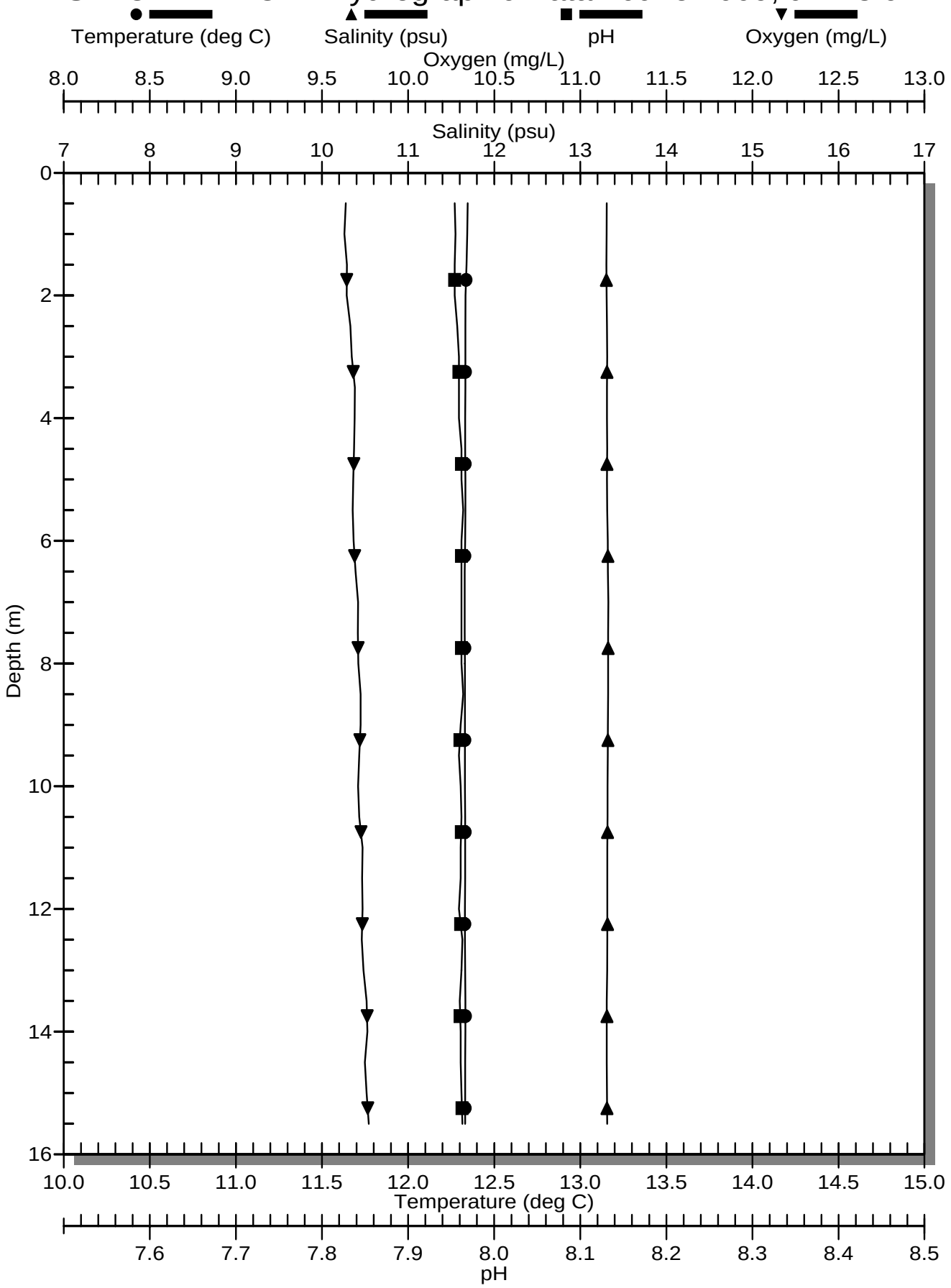



ASPLUND WPCF - Hydrographic Data - June 2009, uE2-2.cnv
Temperature (deg C)
Salinity (psu)
pH
Oxygen (mg/L)
Oxygen (mg/L)
8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0
Salinity (psu)
7 8 9 10 11 12 13 14 15 16 17
Depth (m)
0 2 4 6 8 10 12 14 16
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5
pH

ASPLUND WPCF - Hydrographic Data - June 2009, uE2-3.cnv



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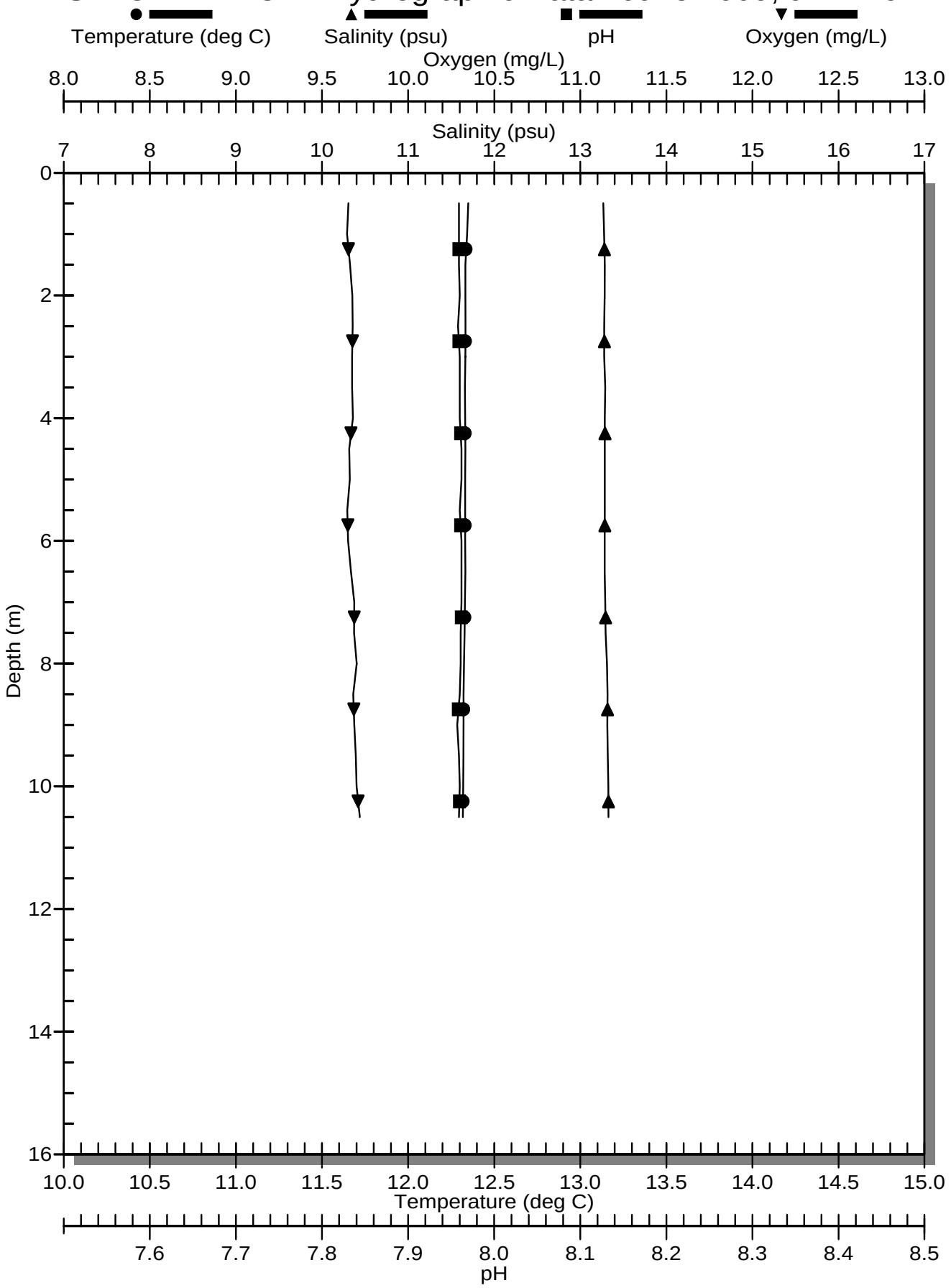

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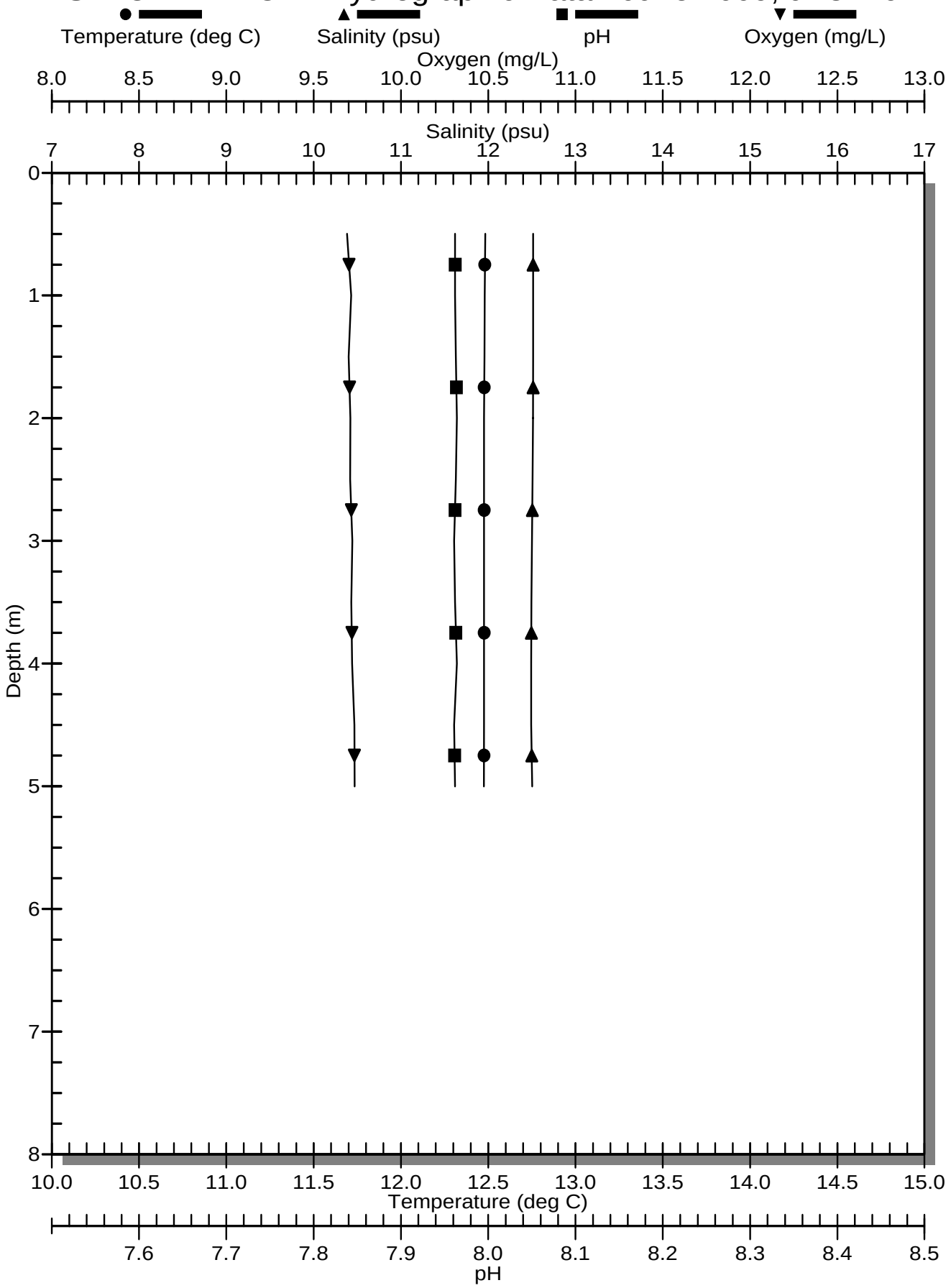

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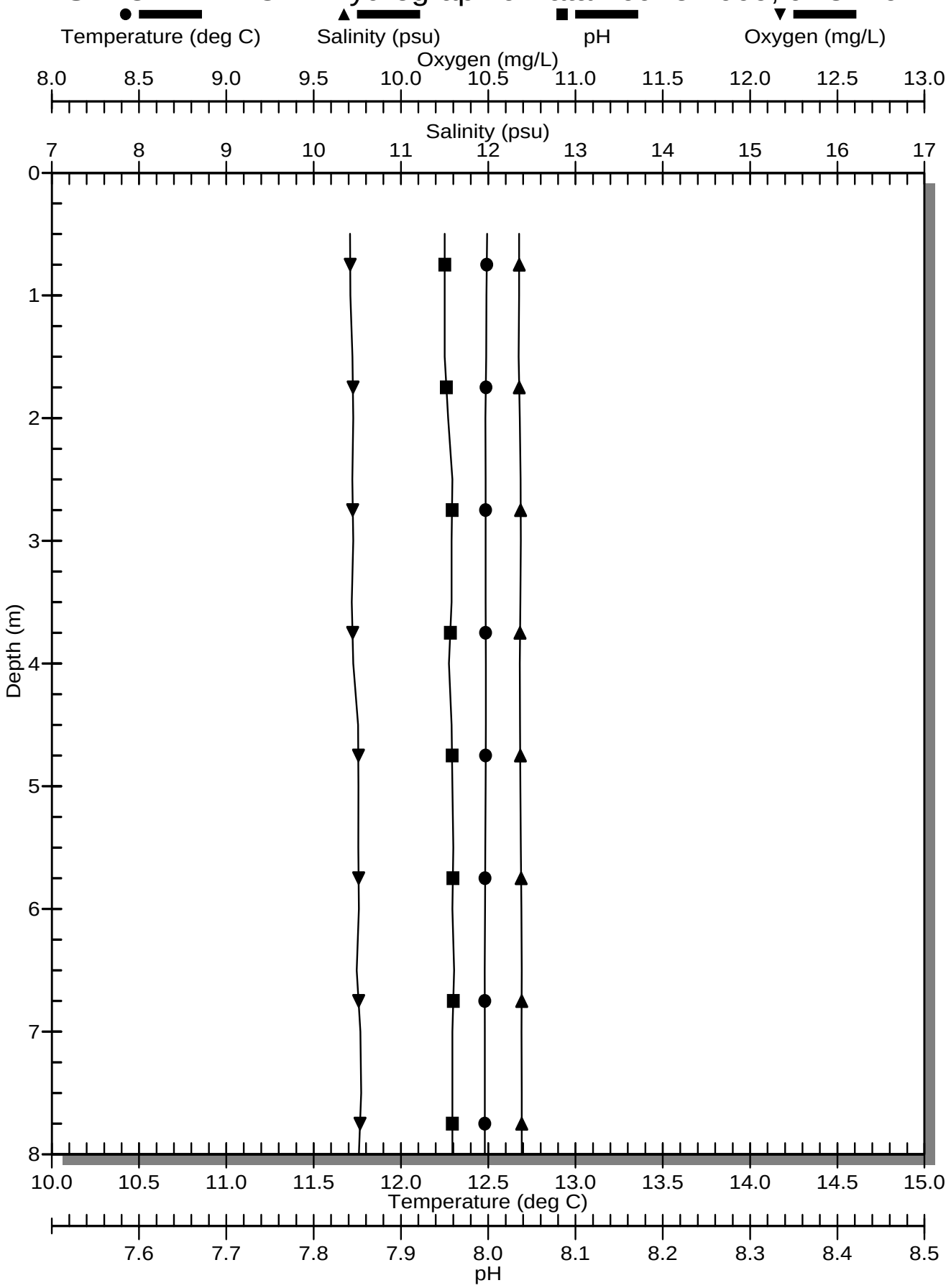

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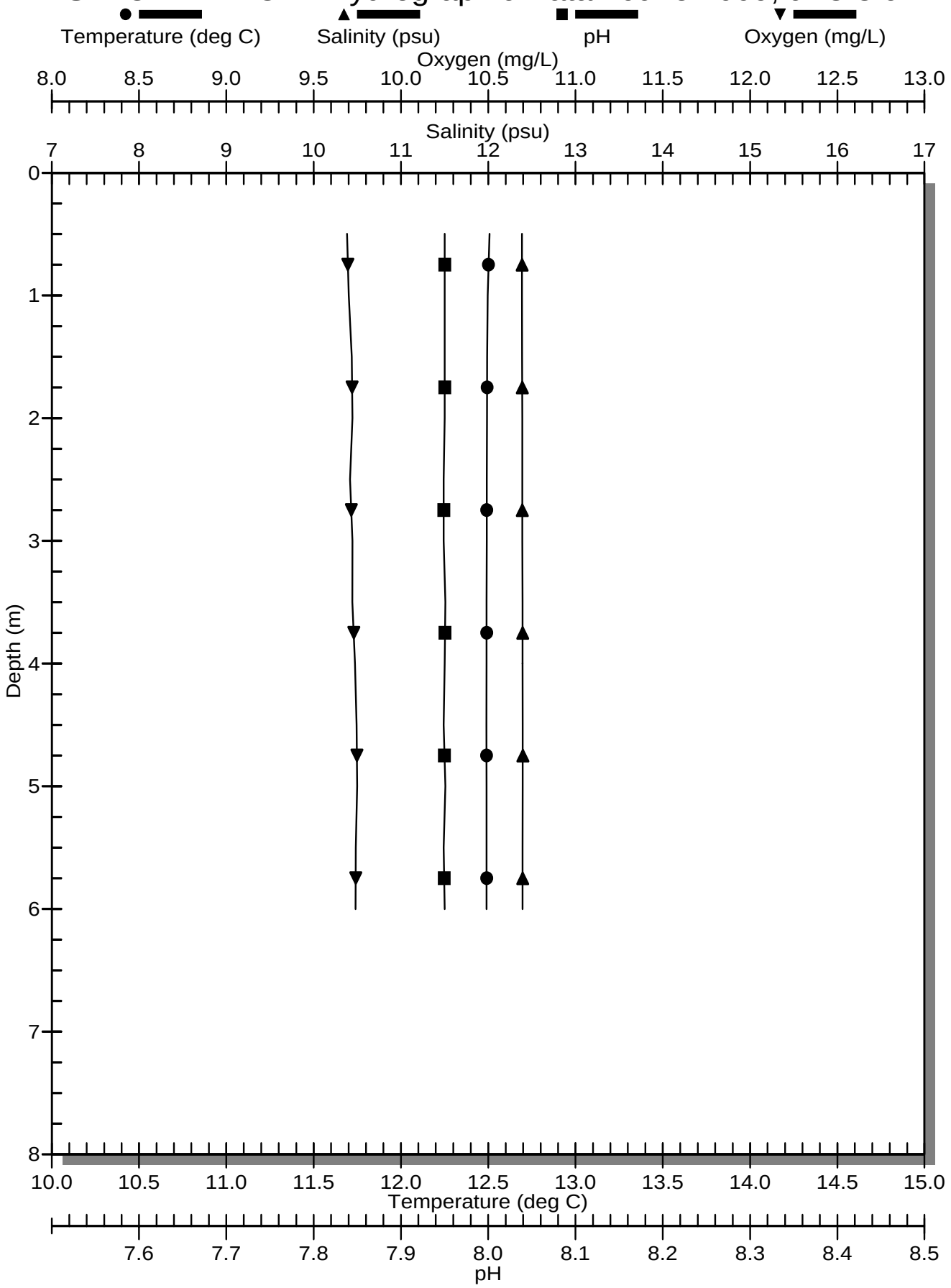

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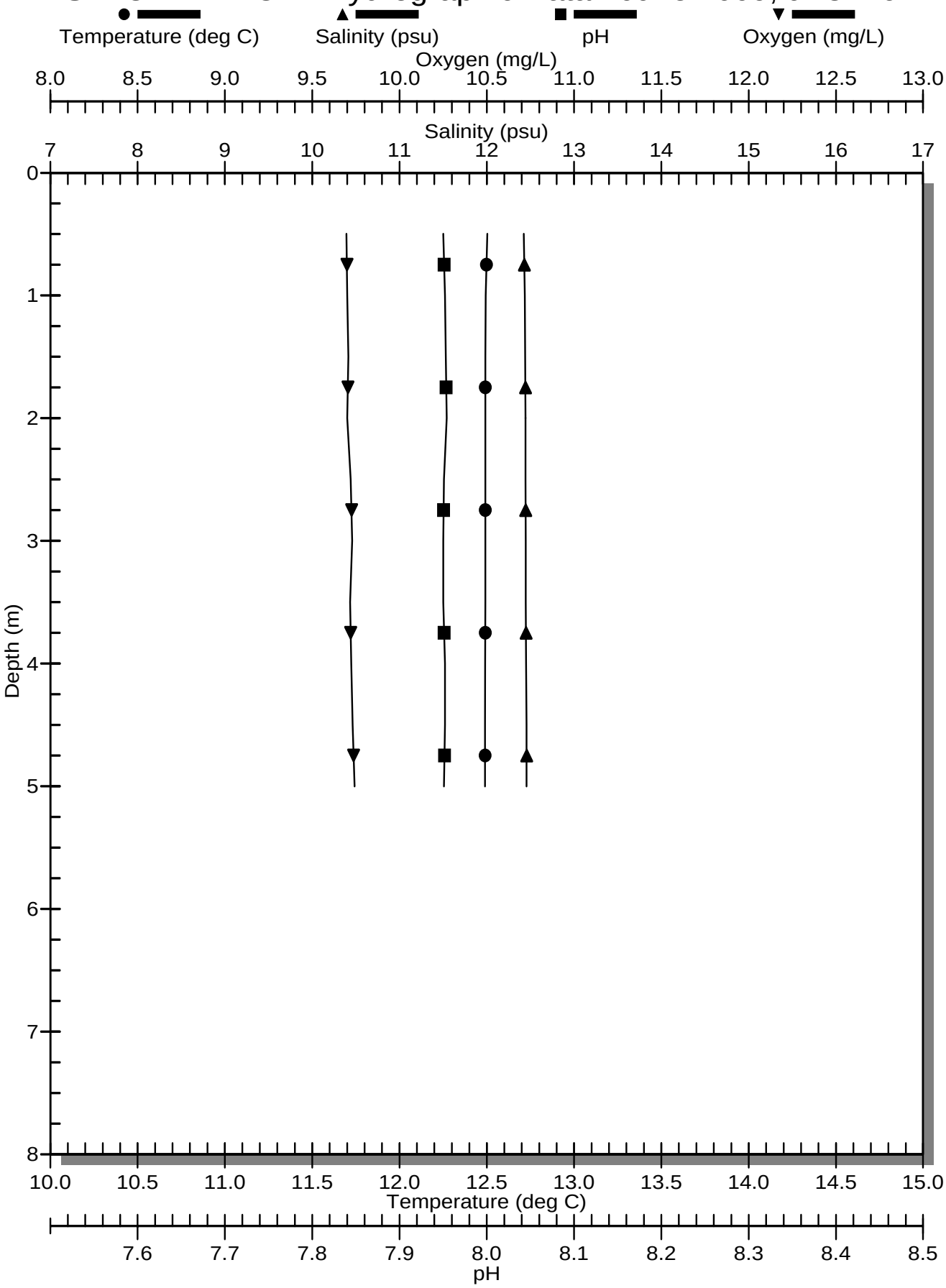

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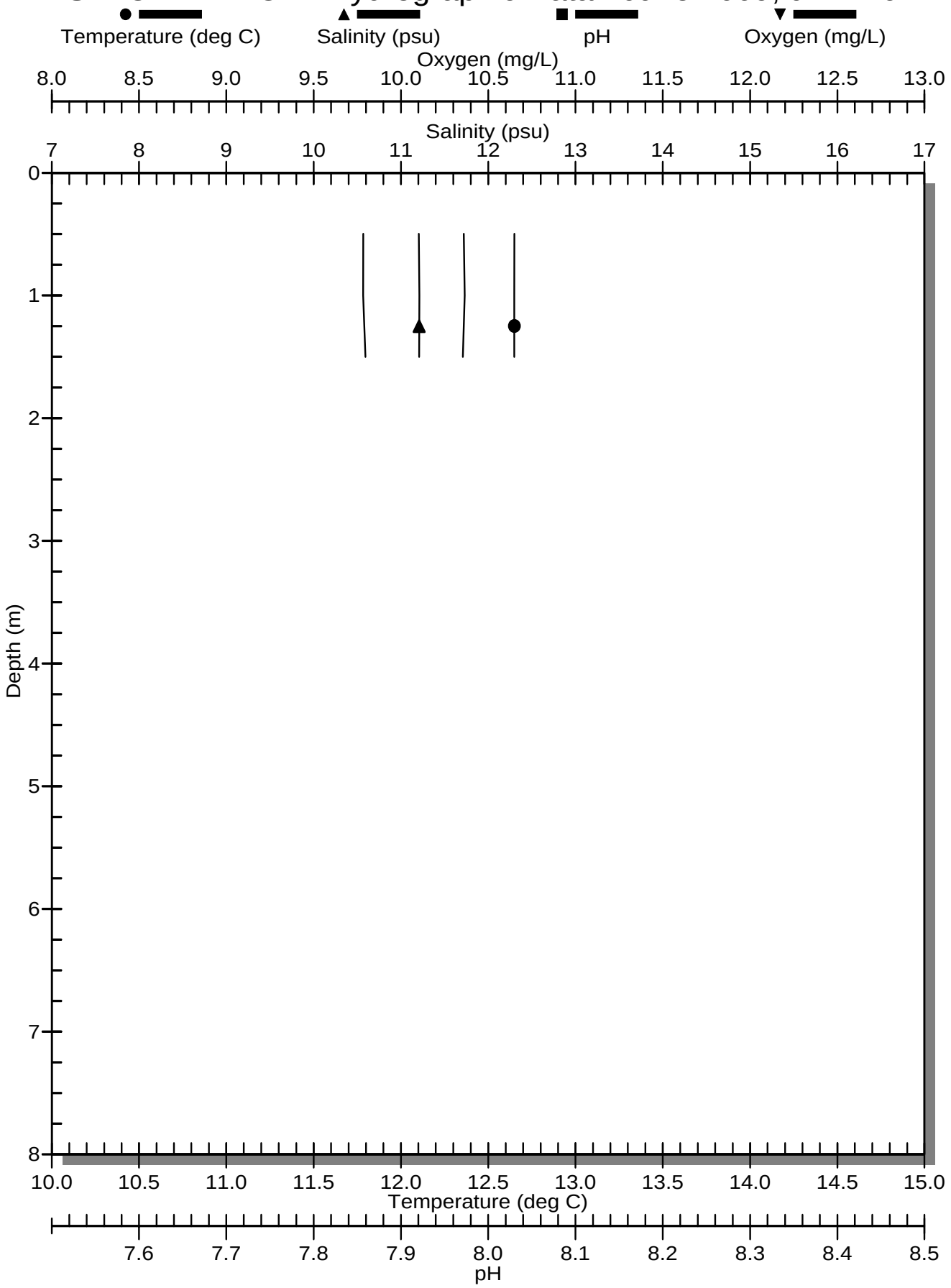
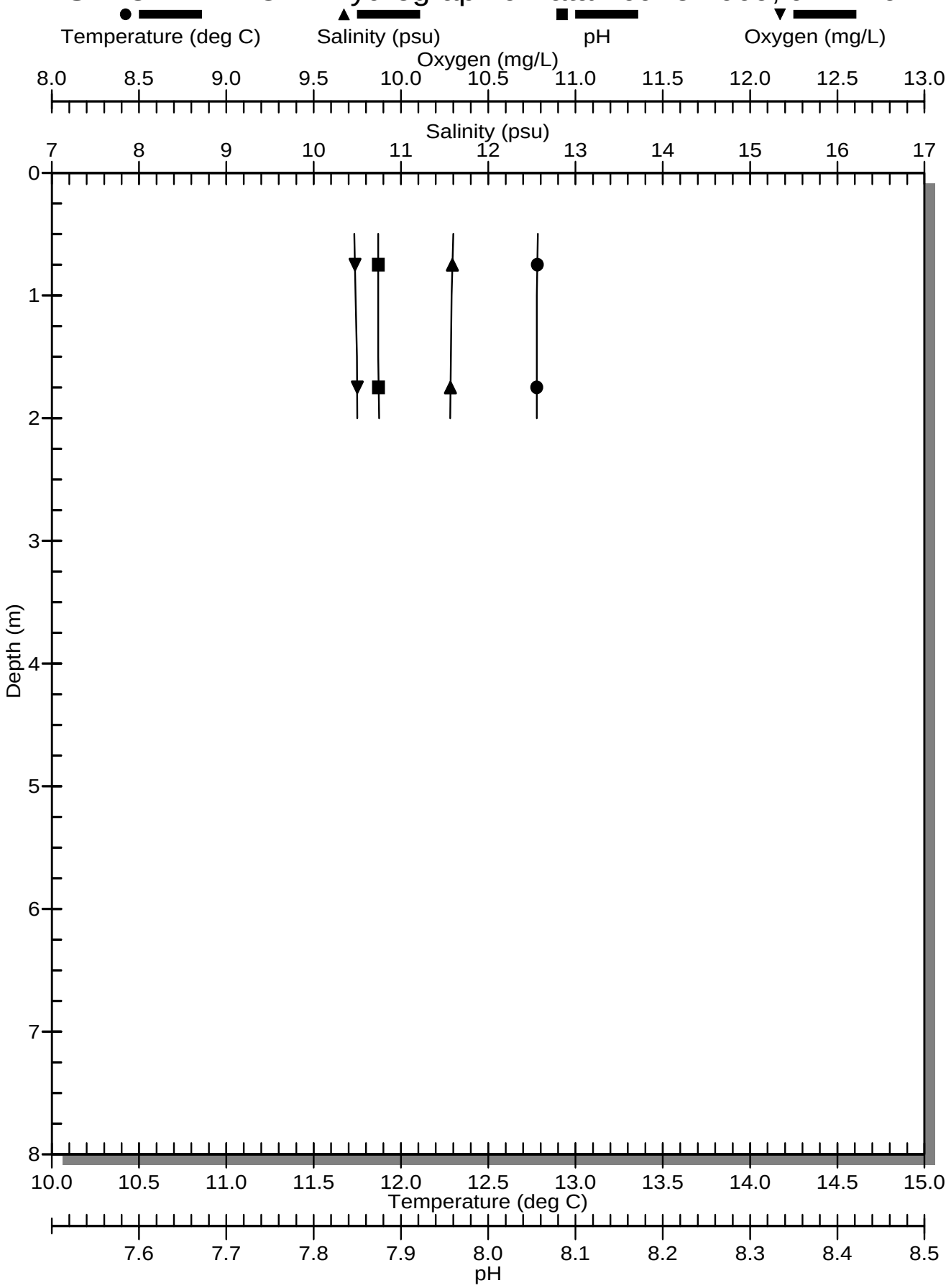


ASPLUND WPCF - Hydrographic Data - June 2009, uF1-2.cnv



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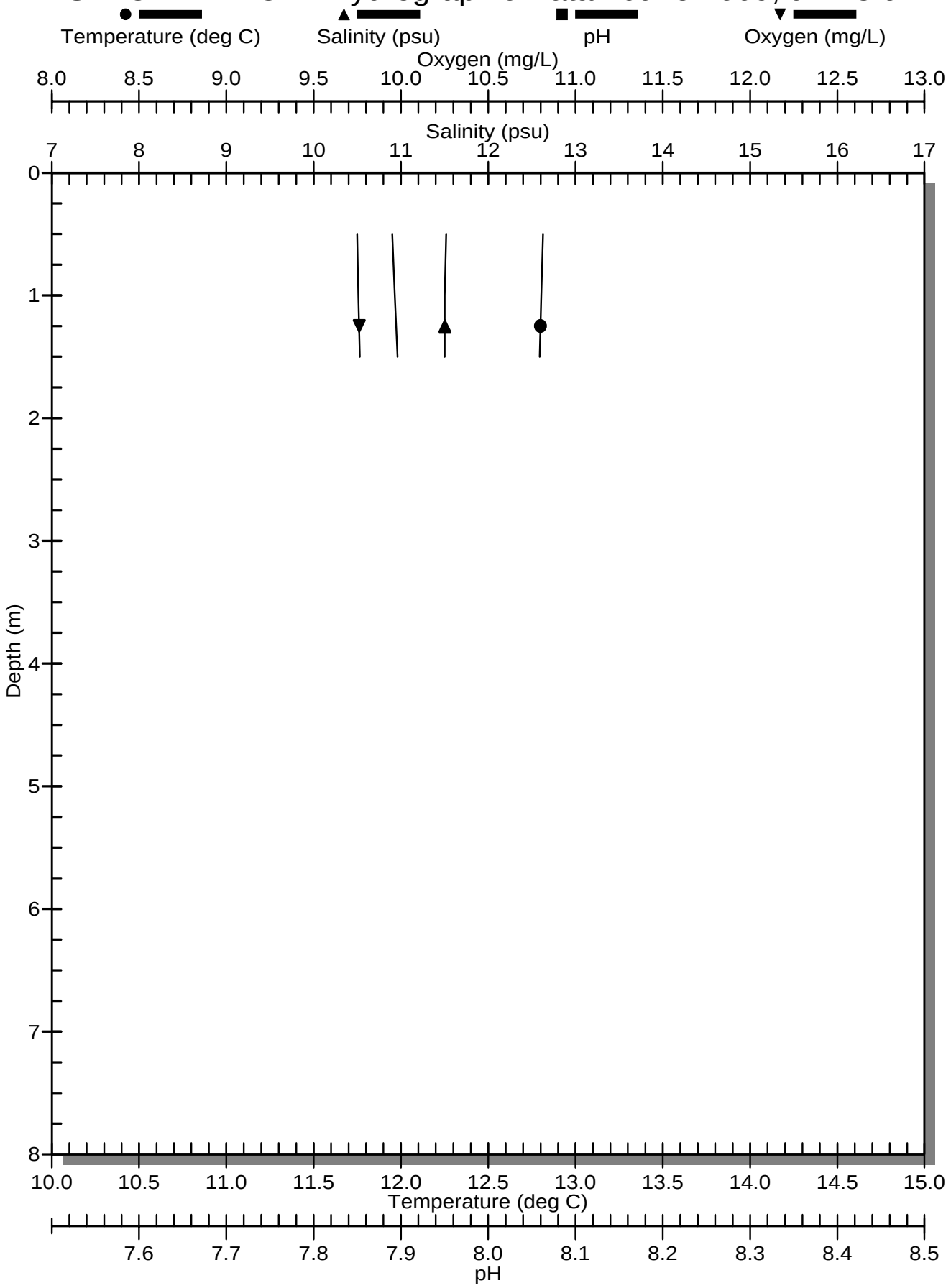

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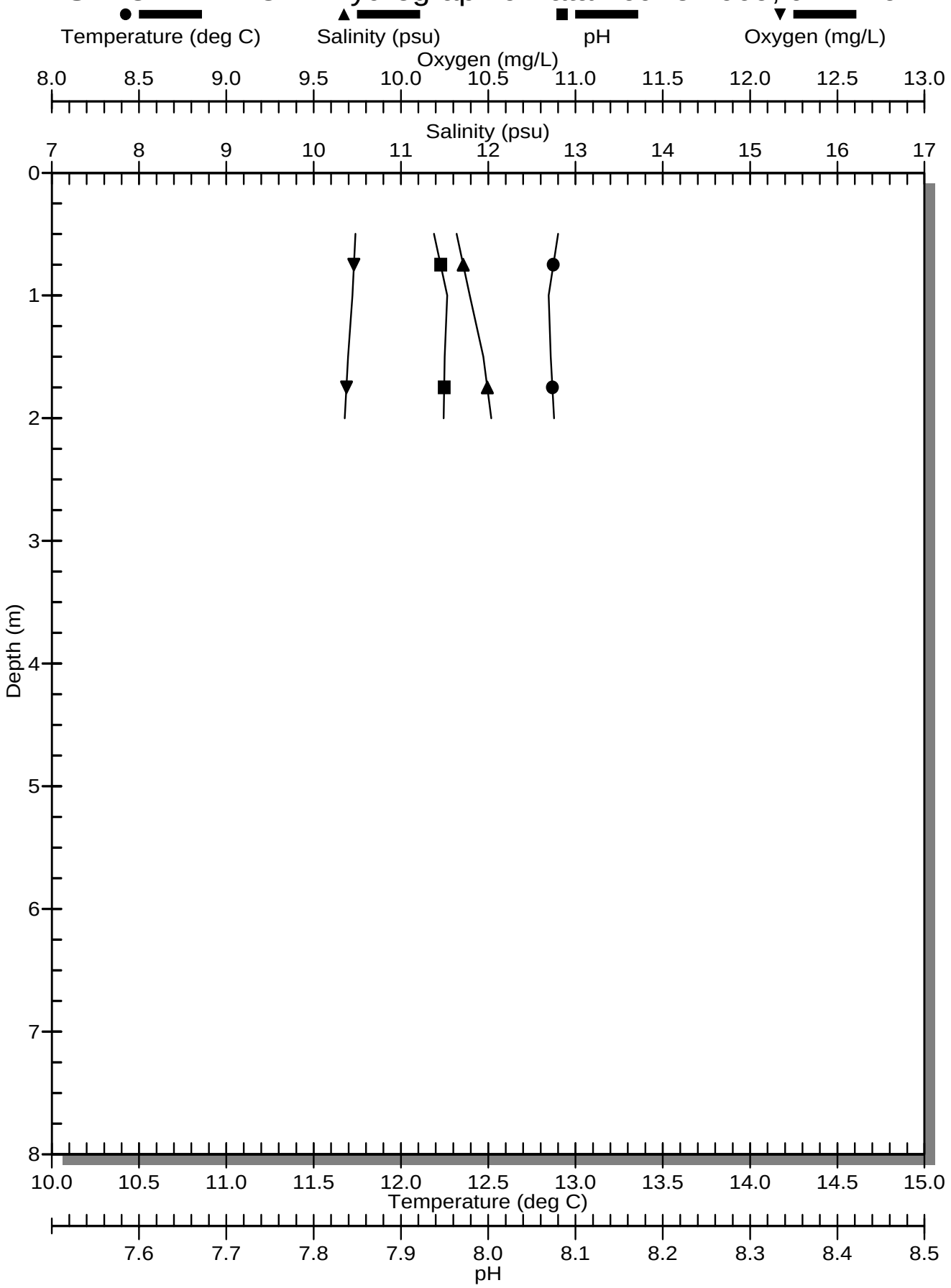

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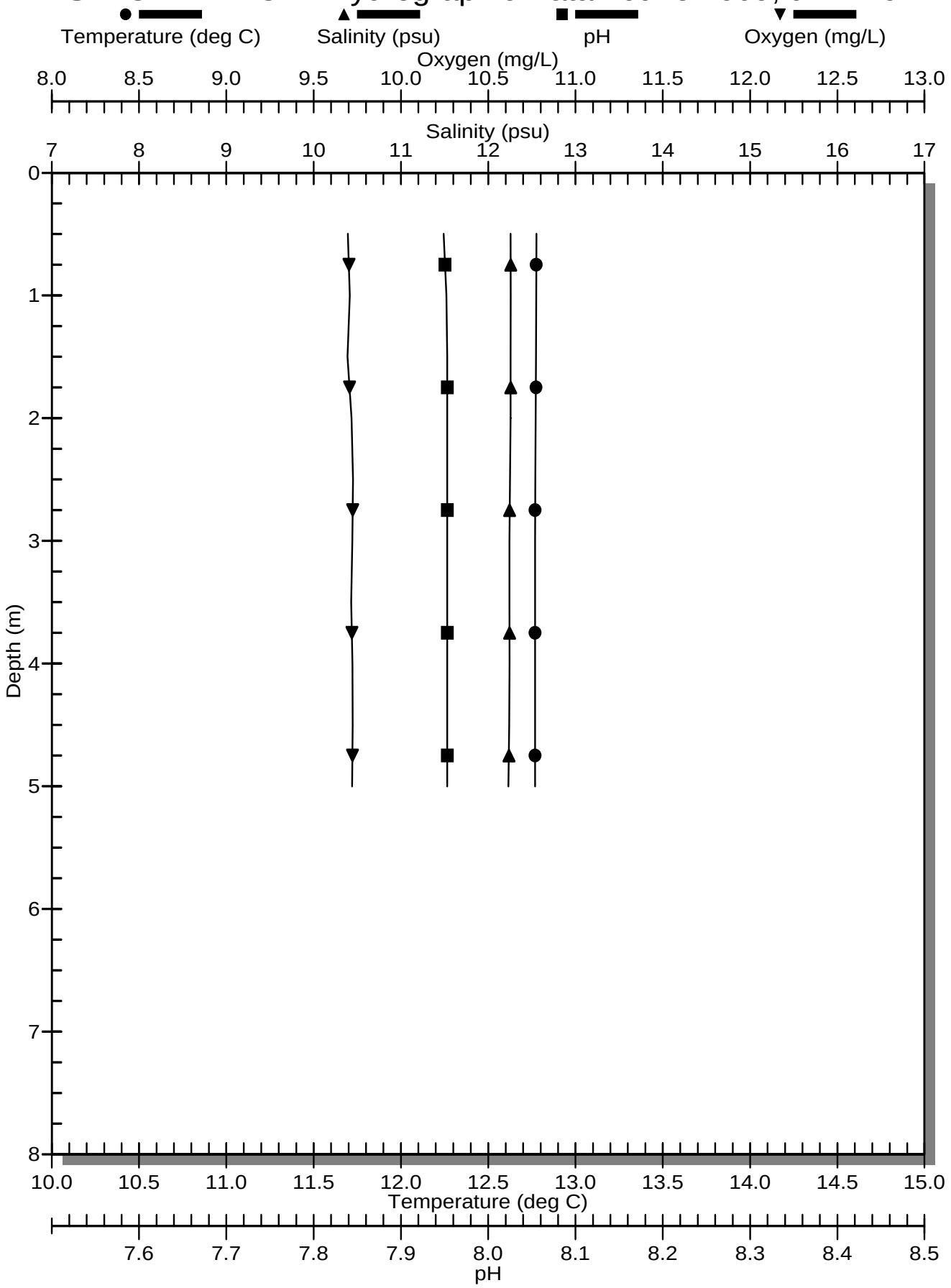

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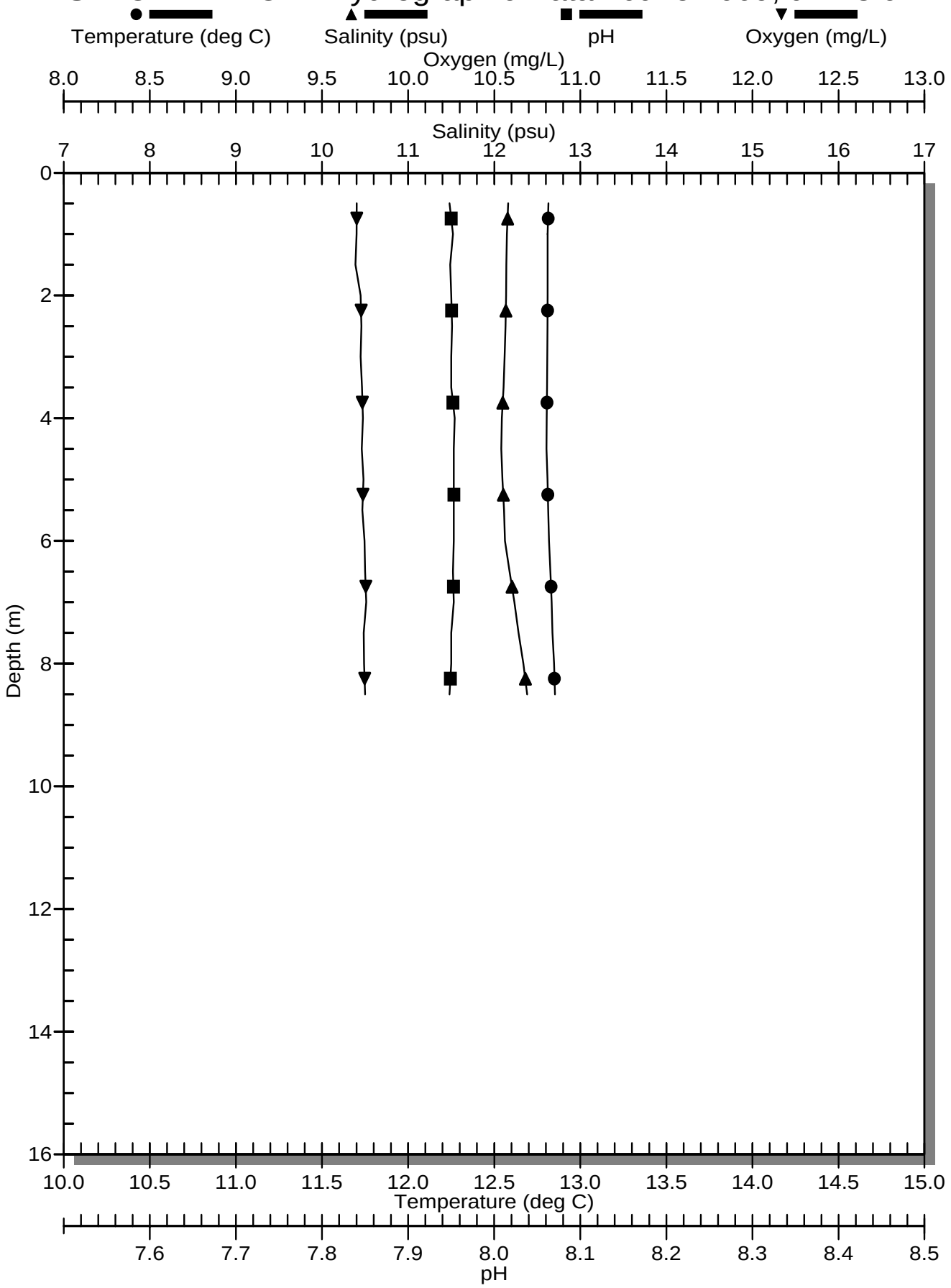

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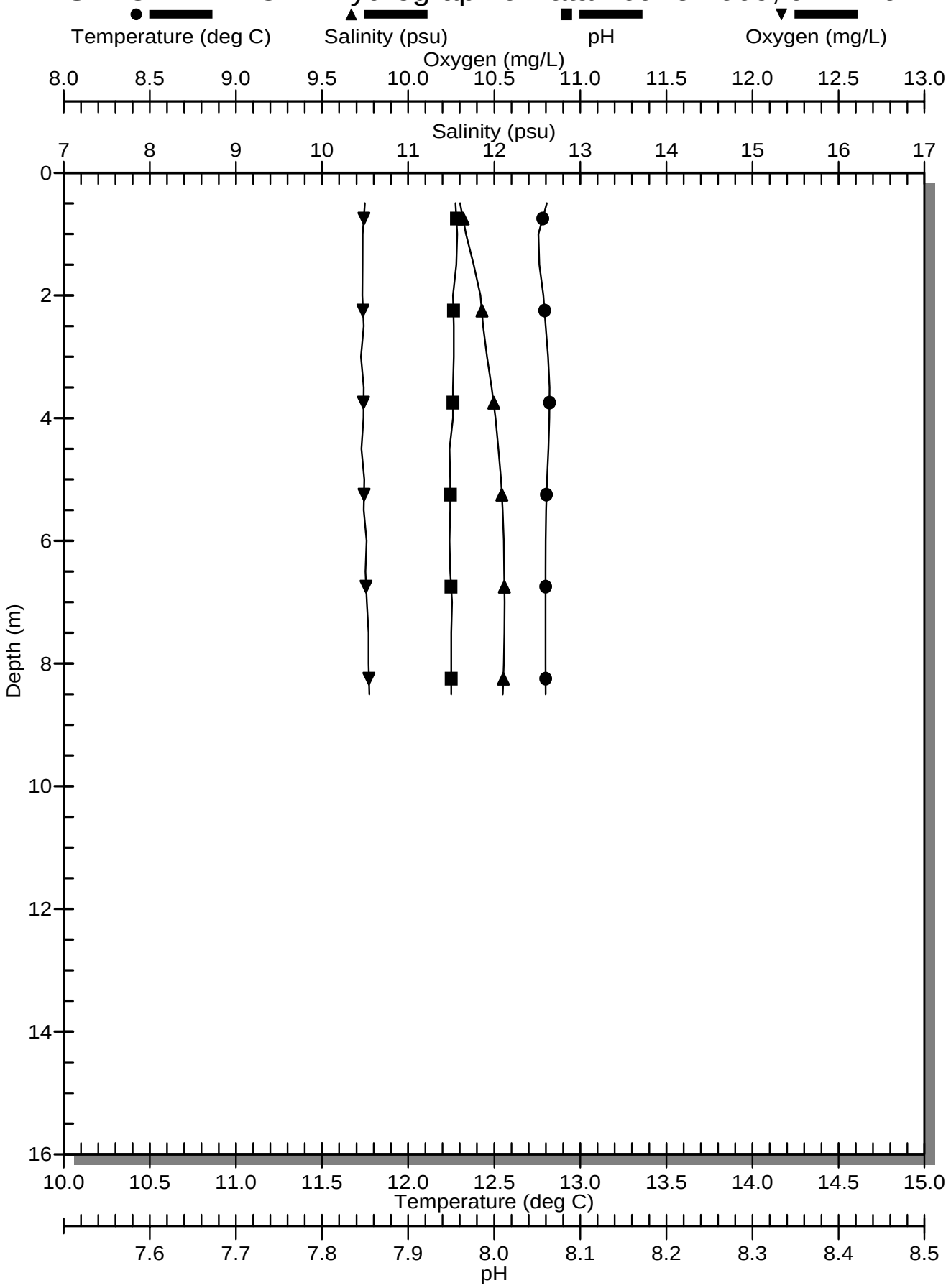

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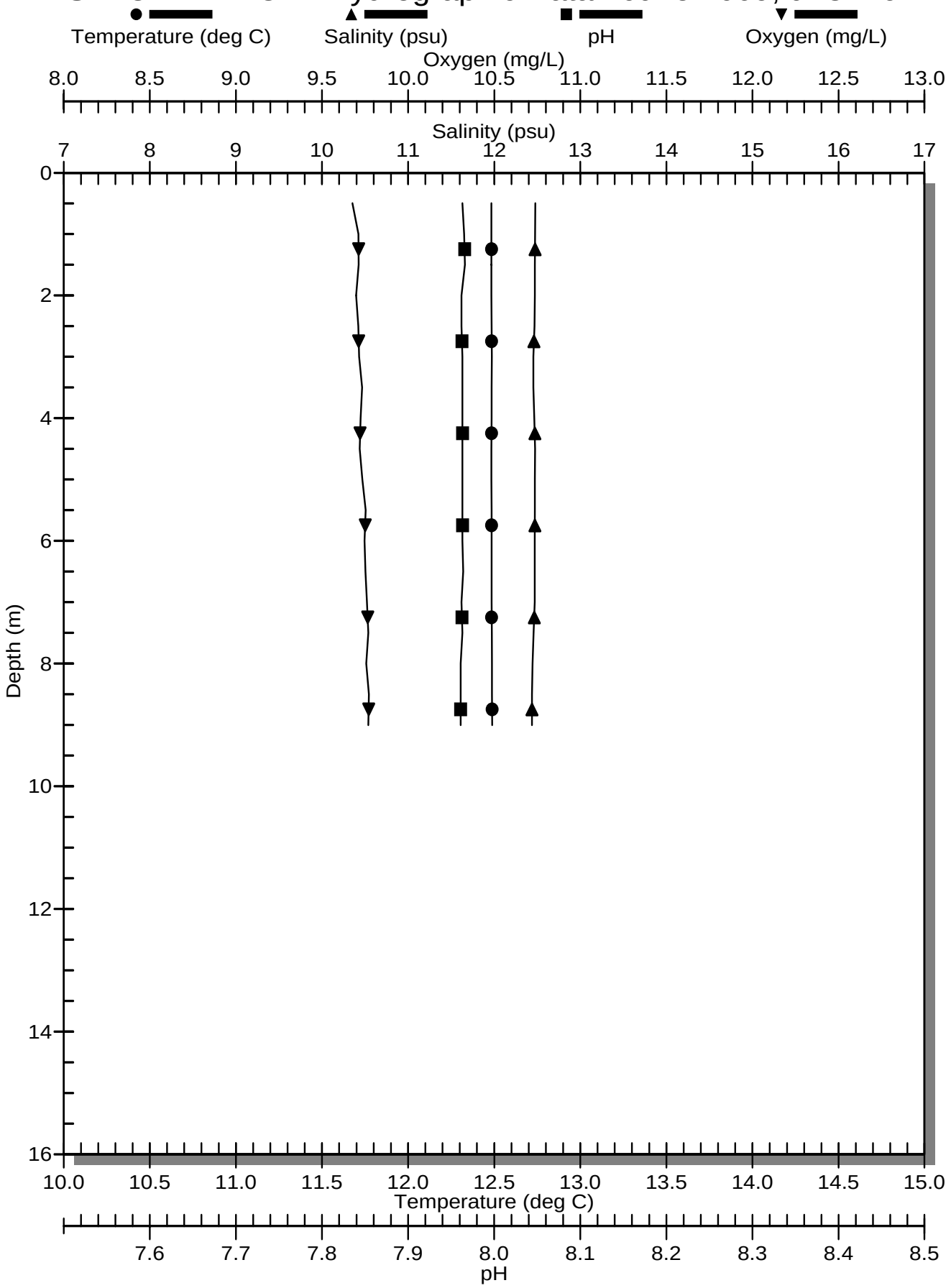

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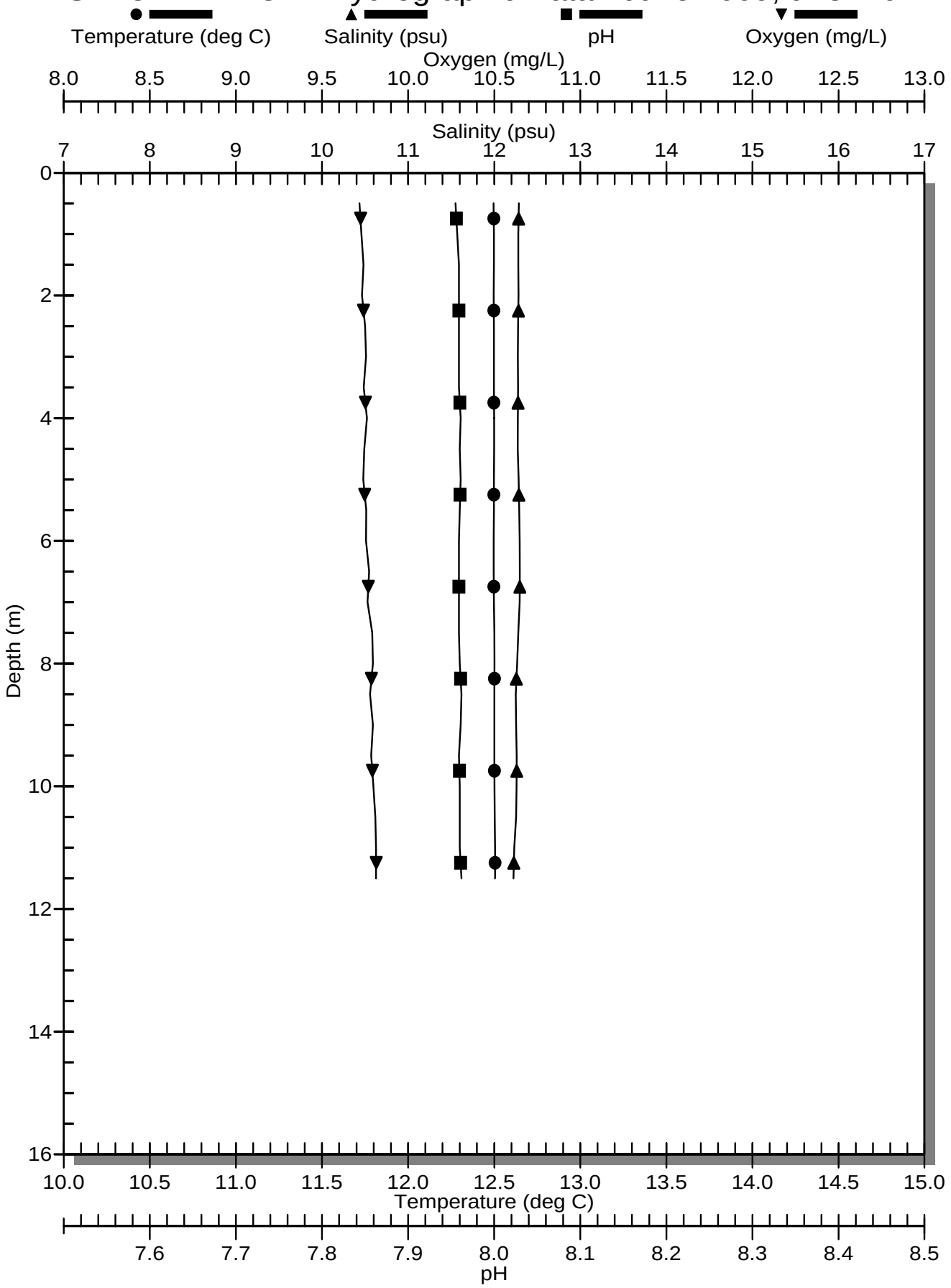

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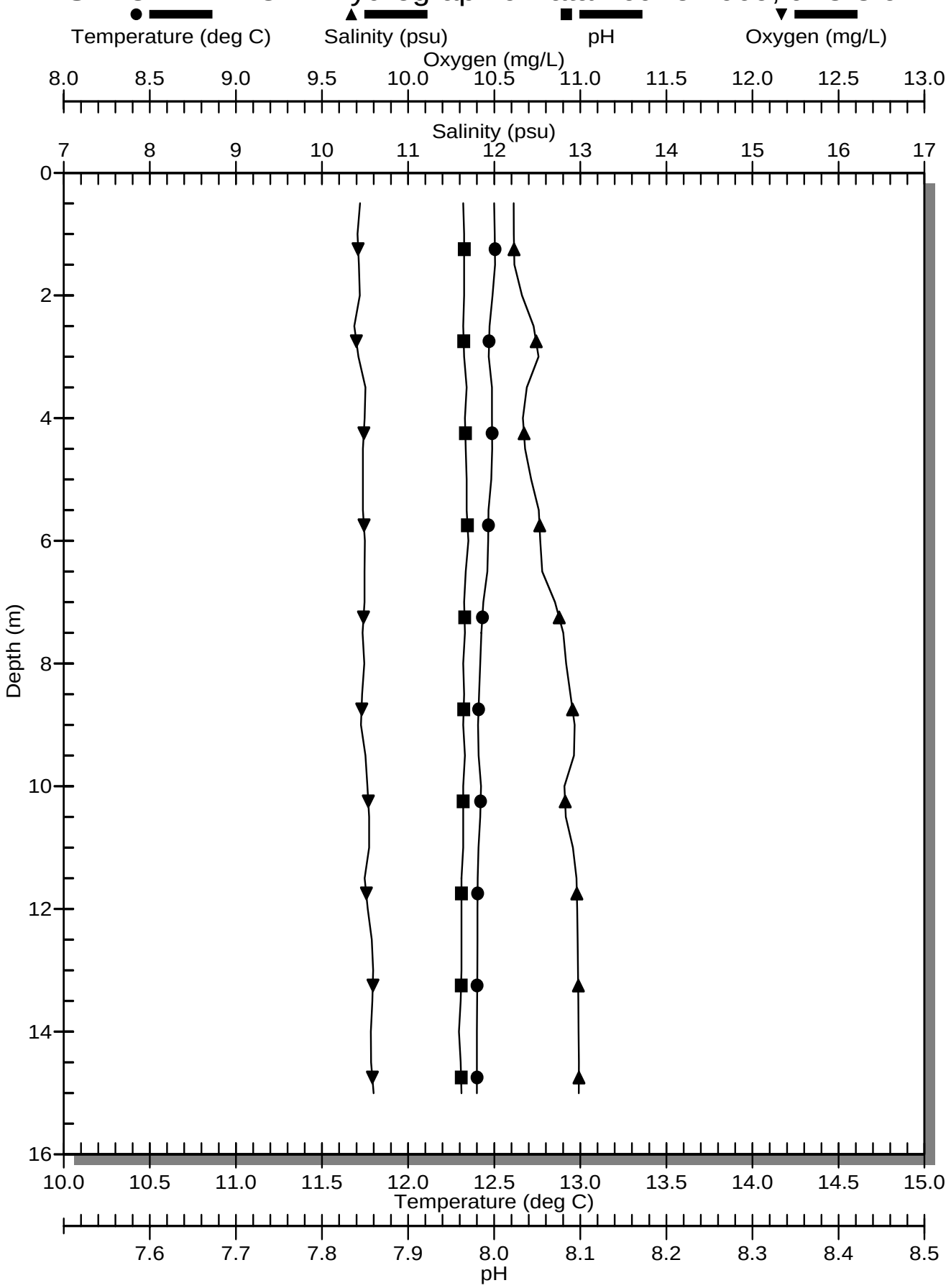

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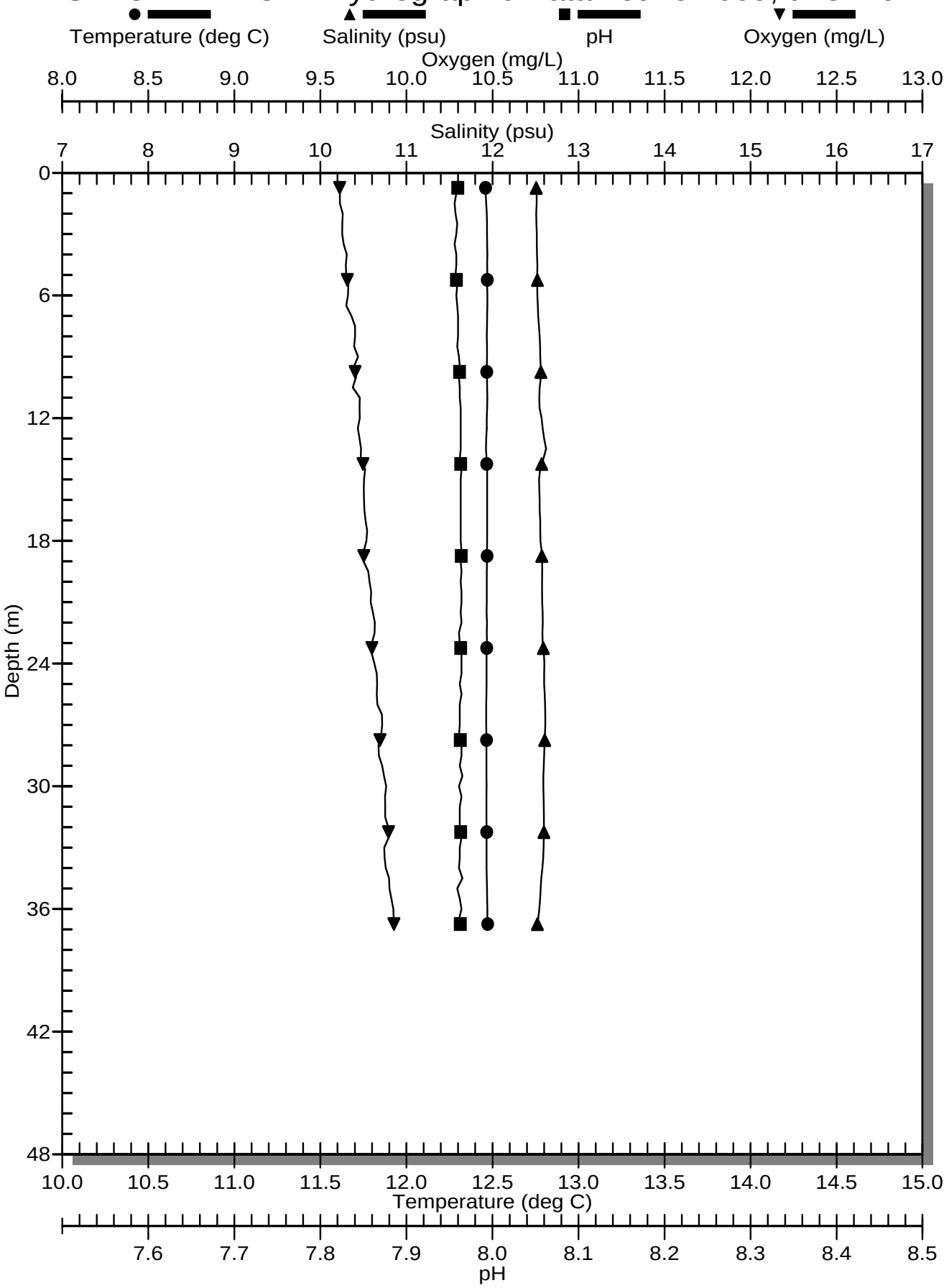

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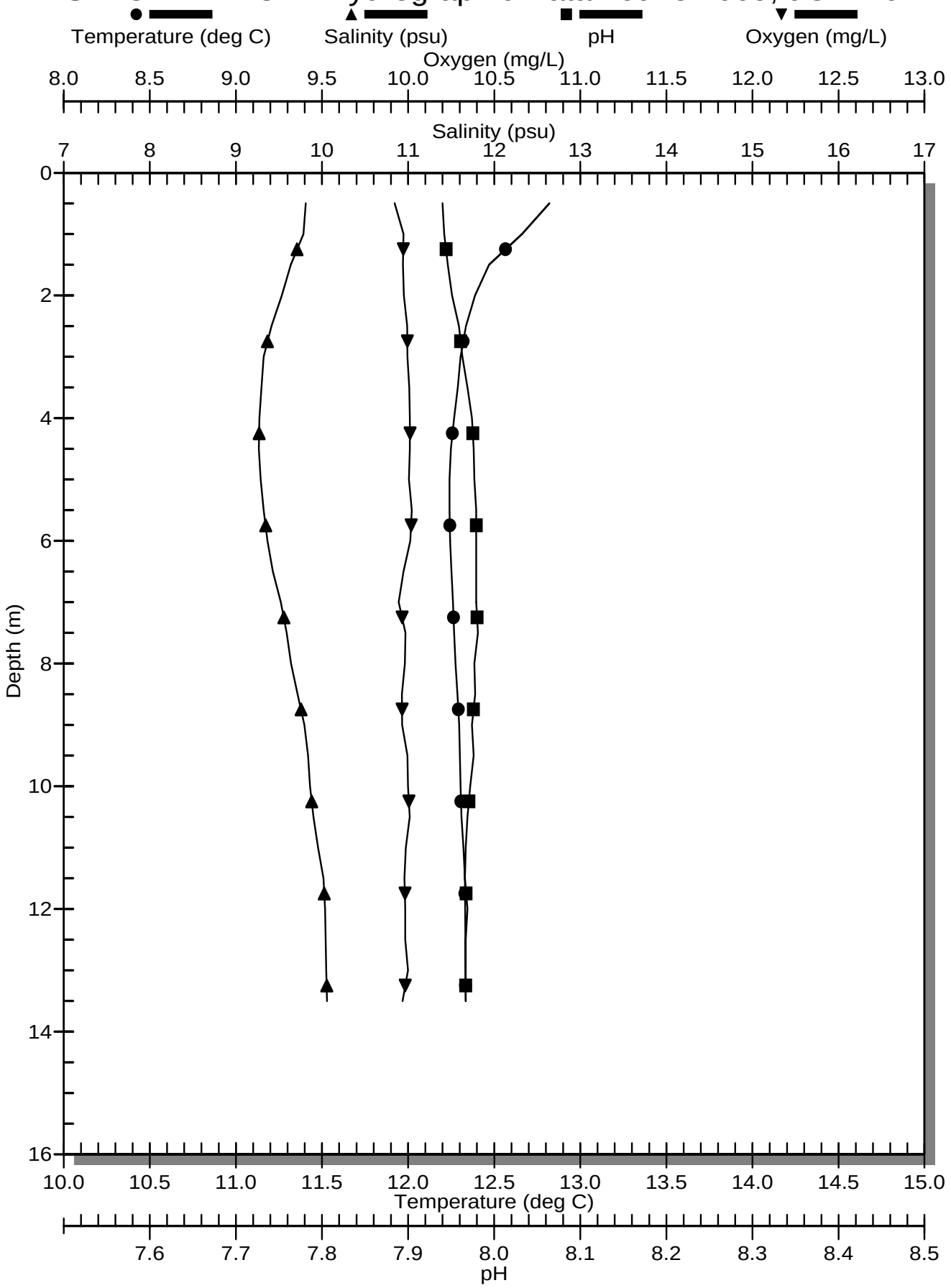

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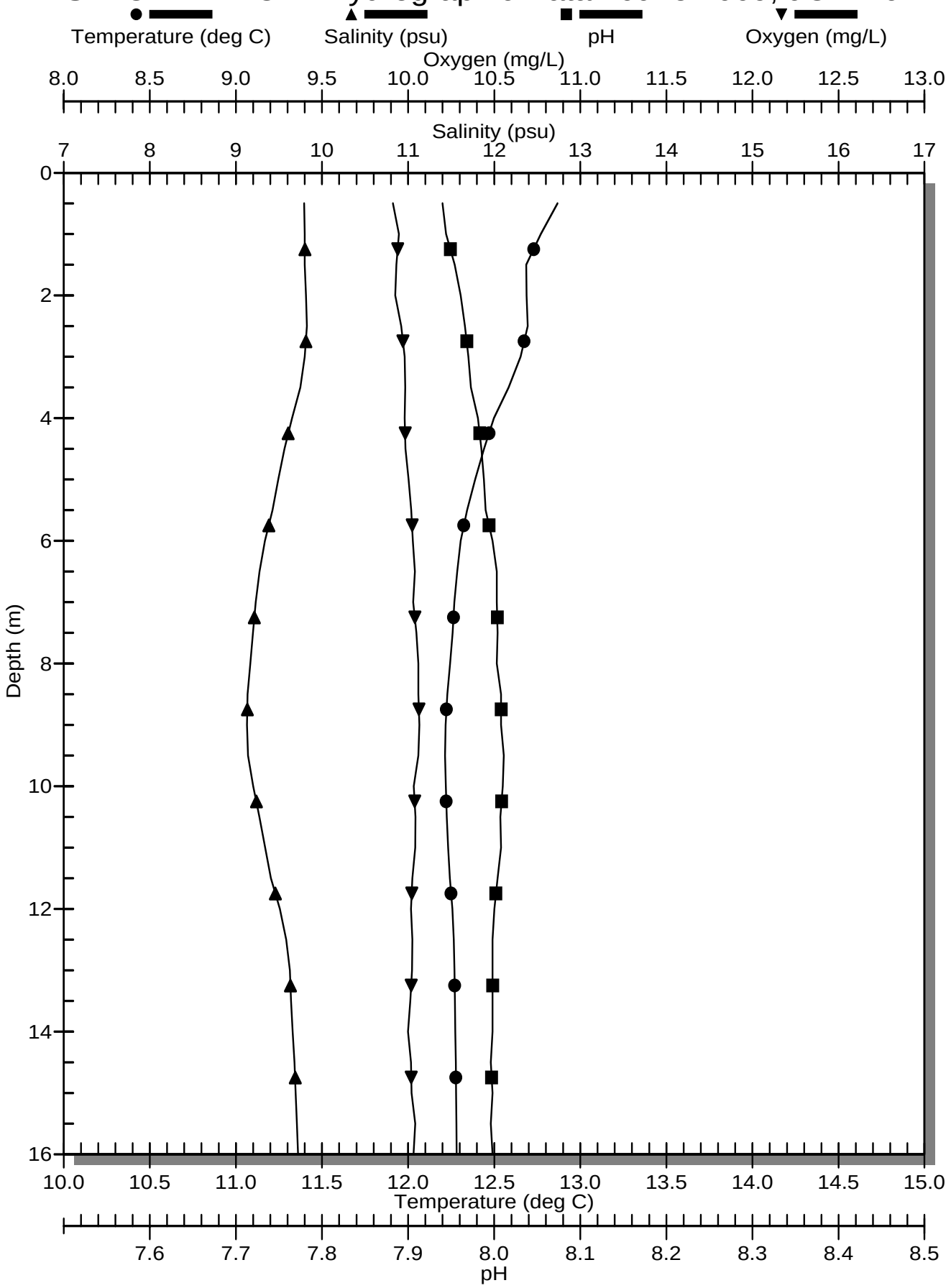

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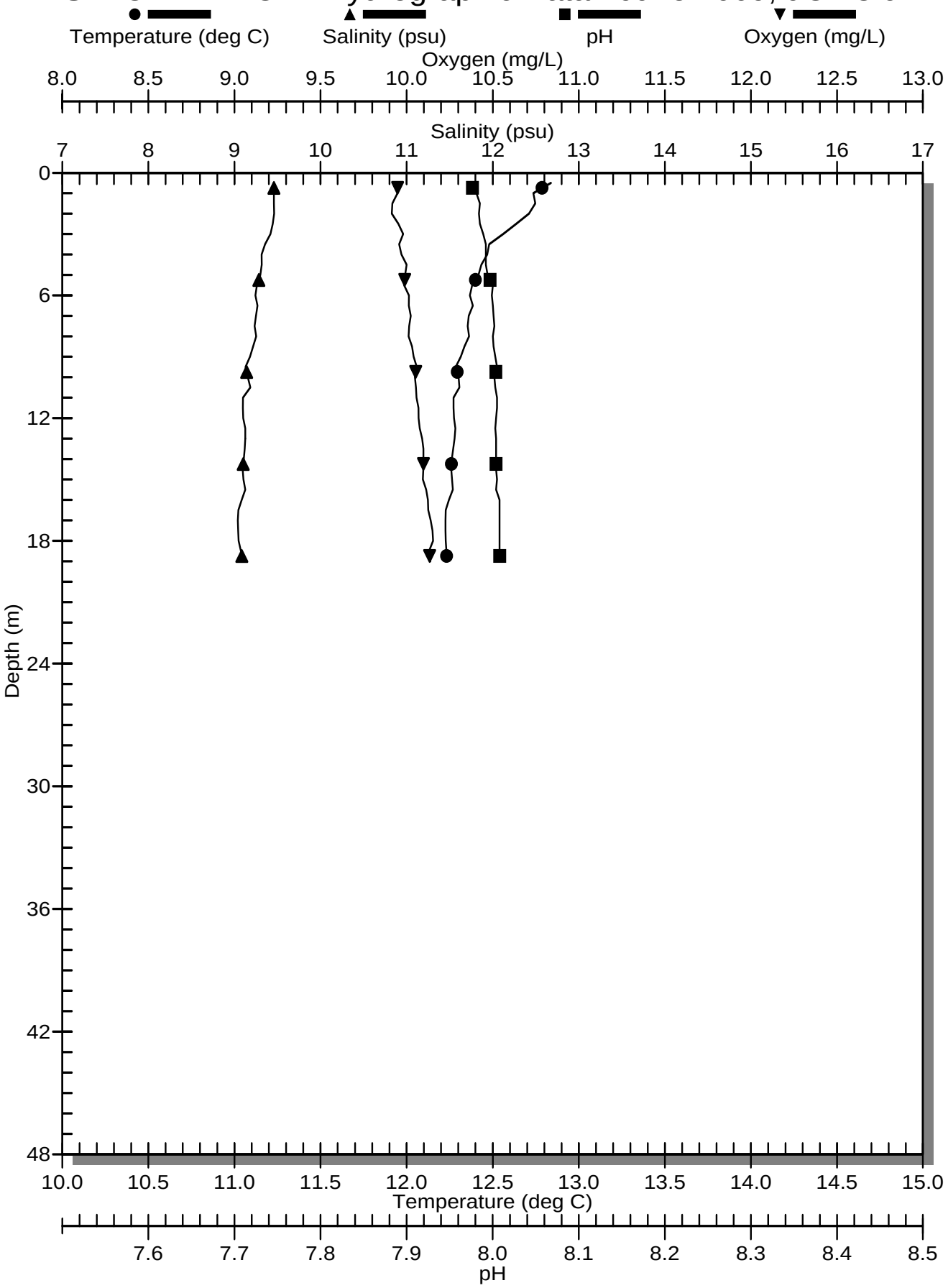

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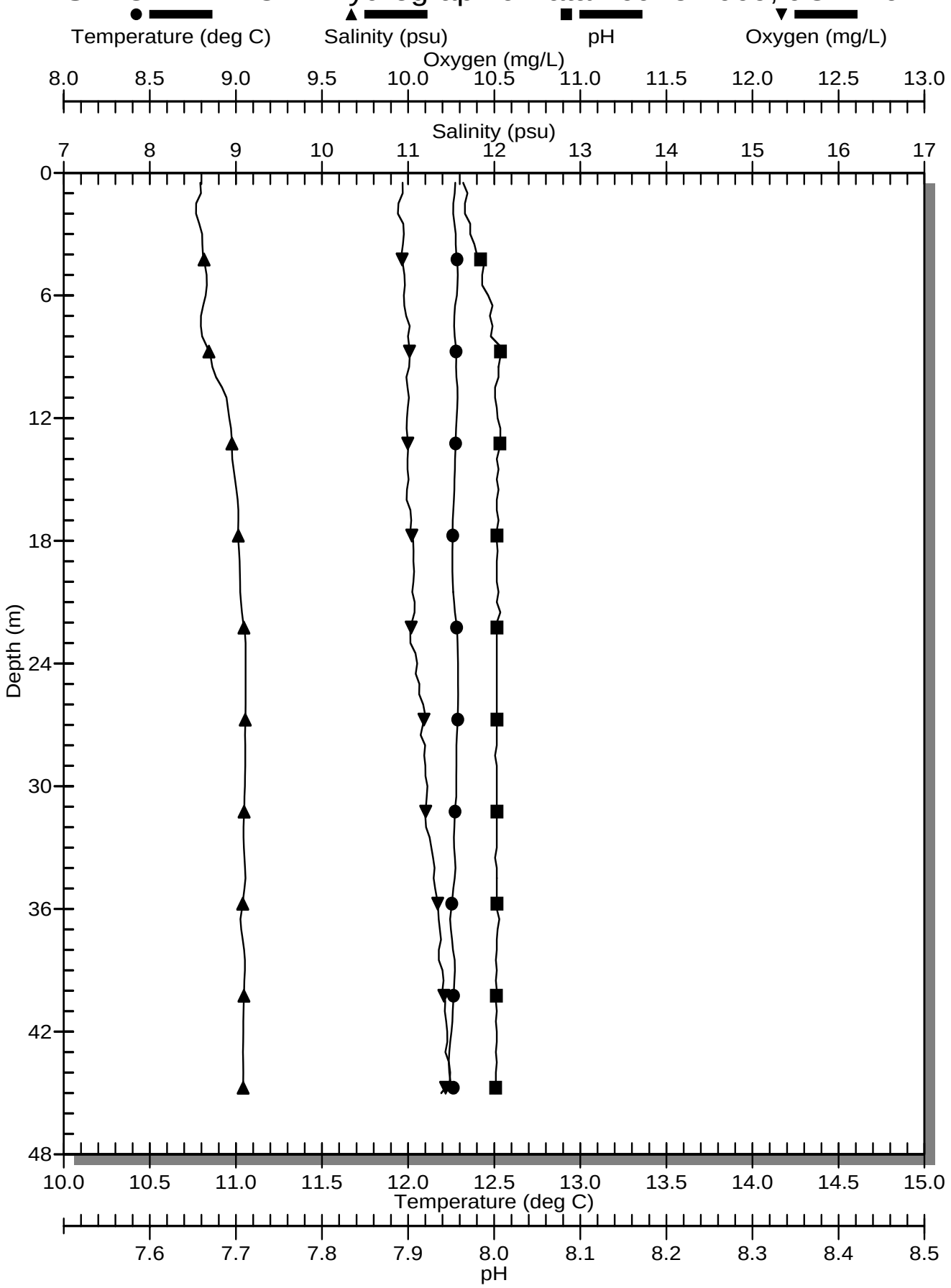
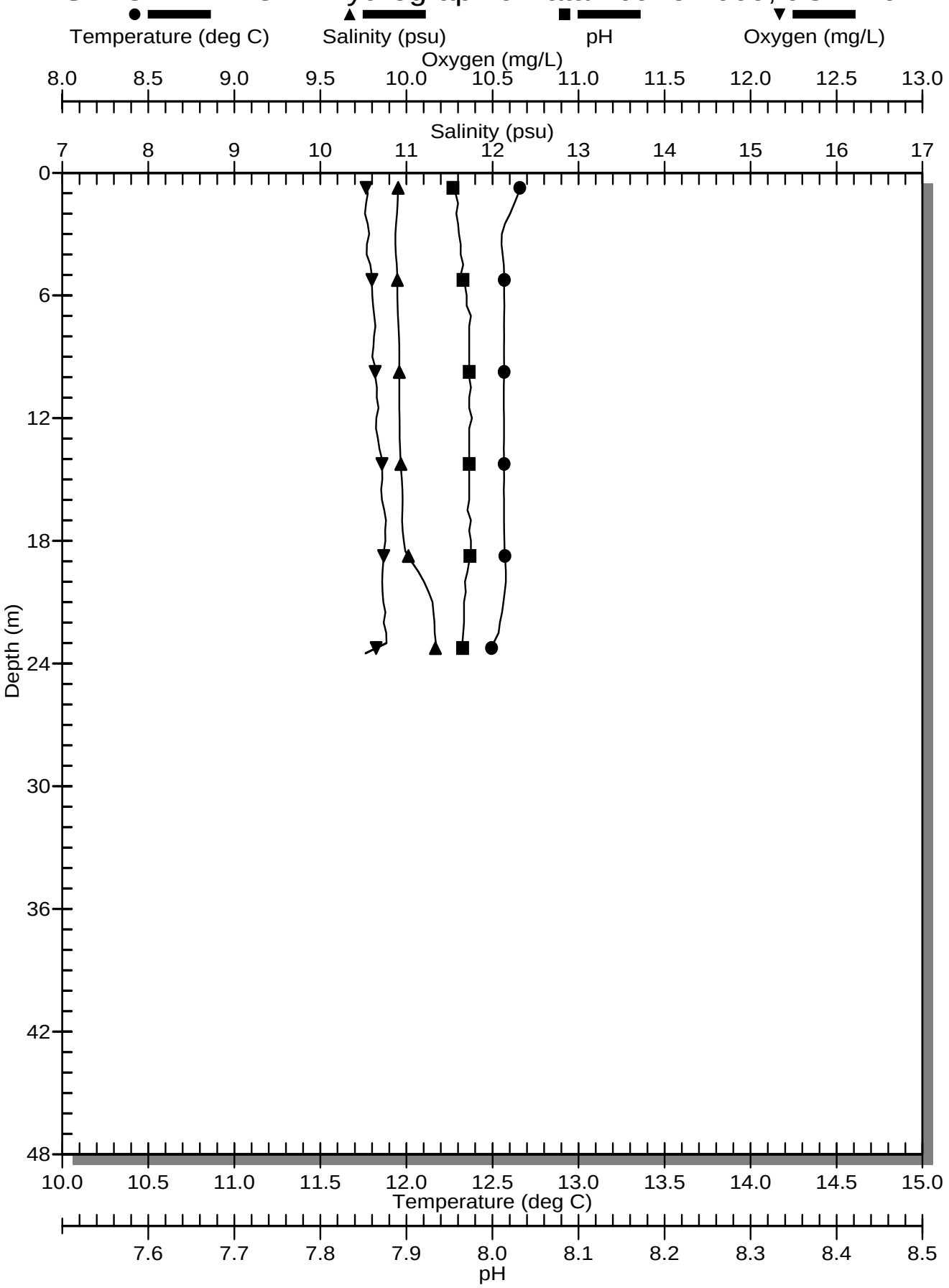


ASPLUND WPCF - Hydrographic Data - June 2009, uC2-1.cnv



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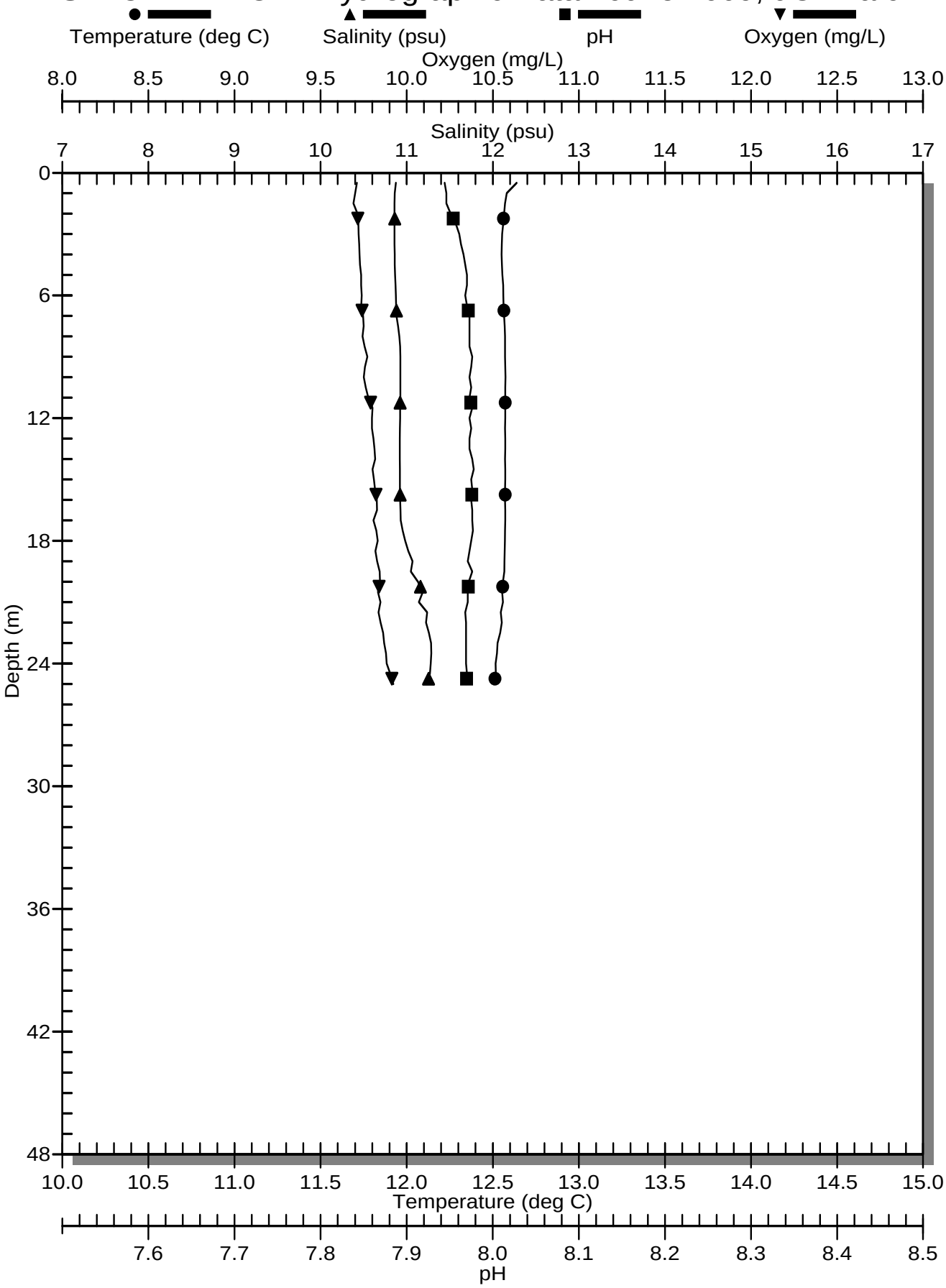

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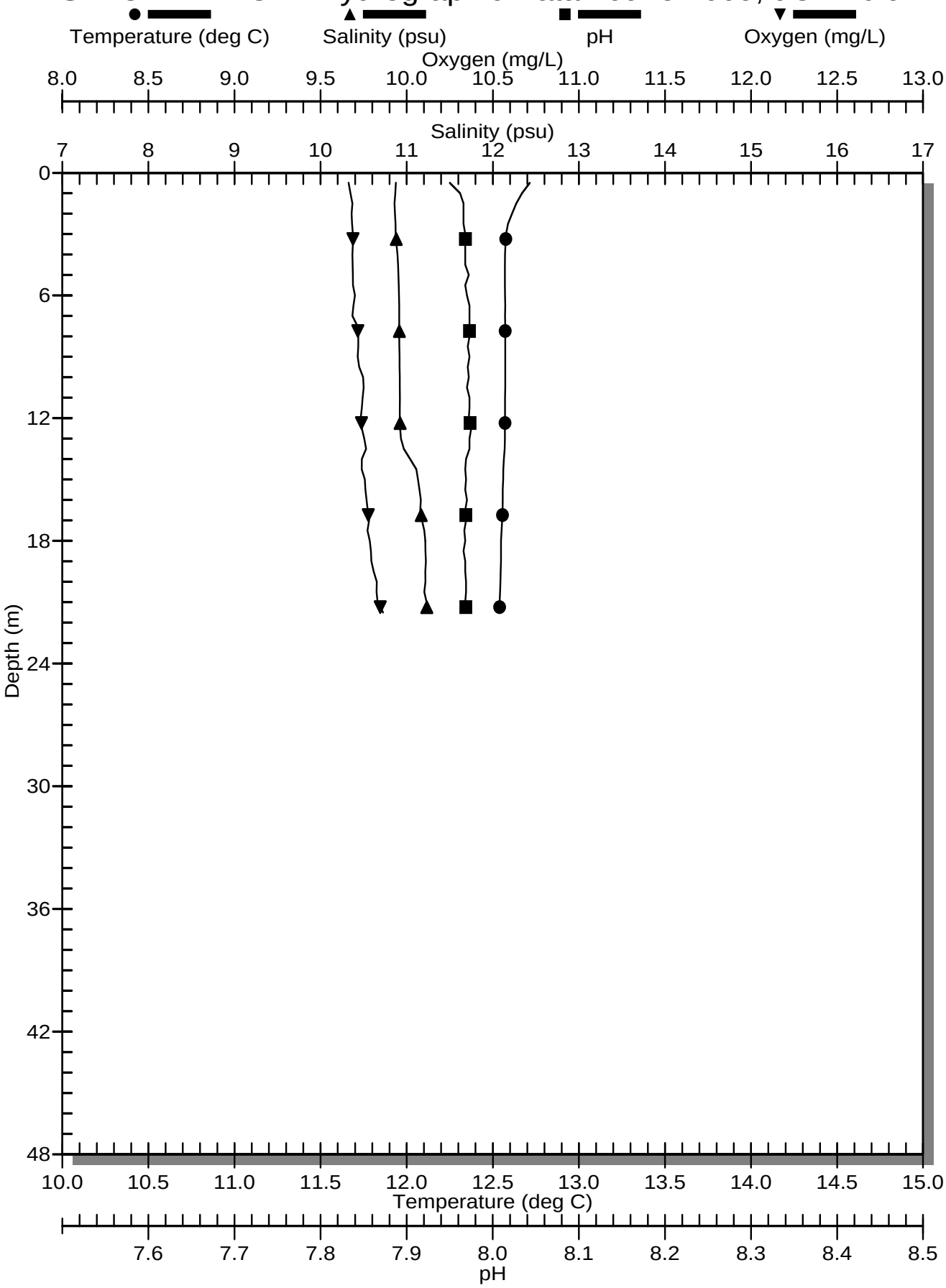

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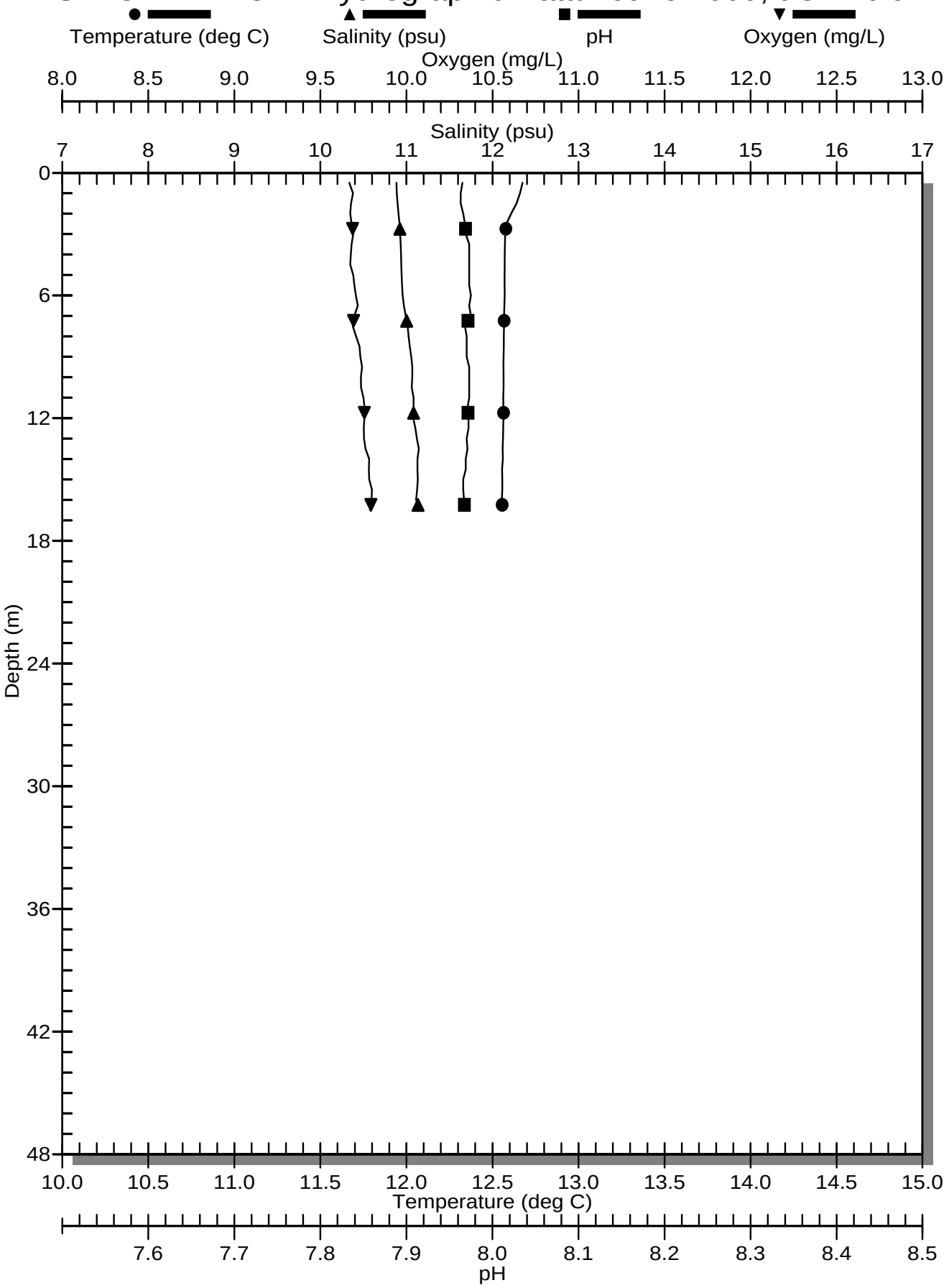
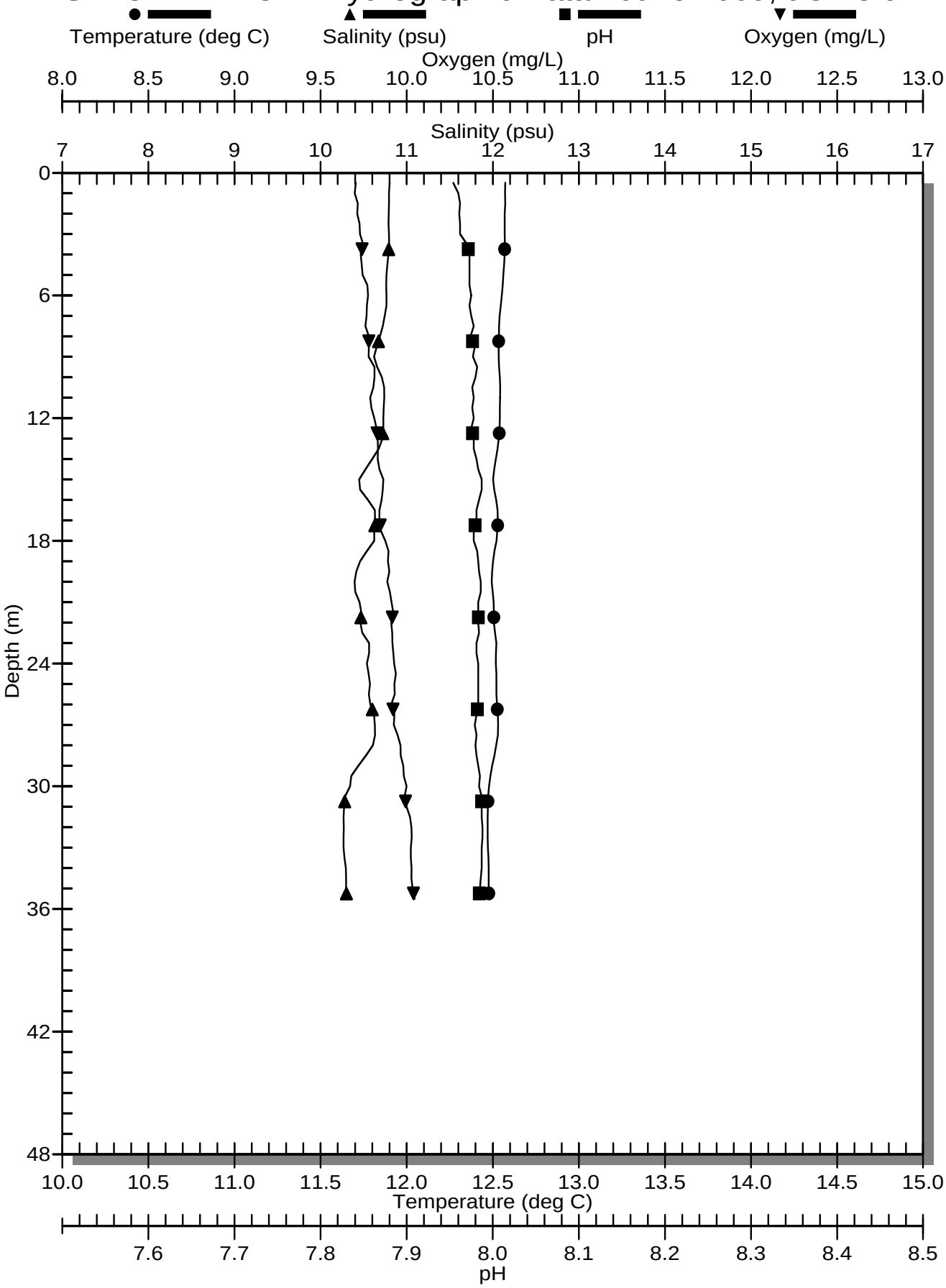
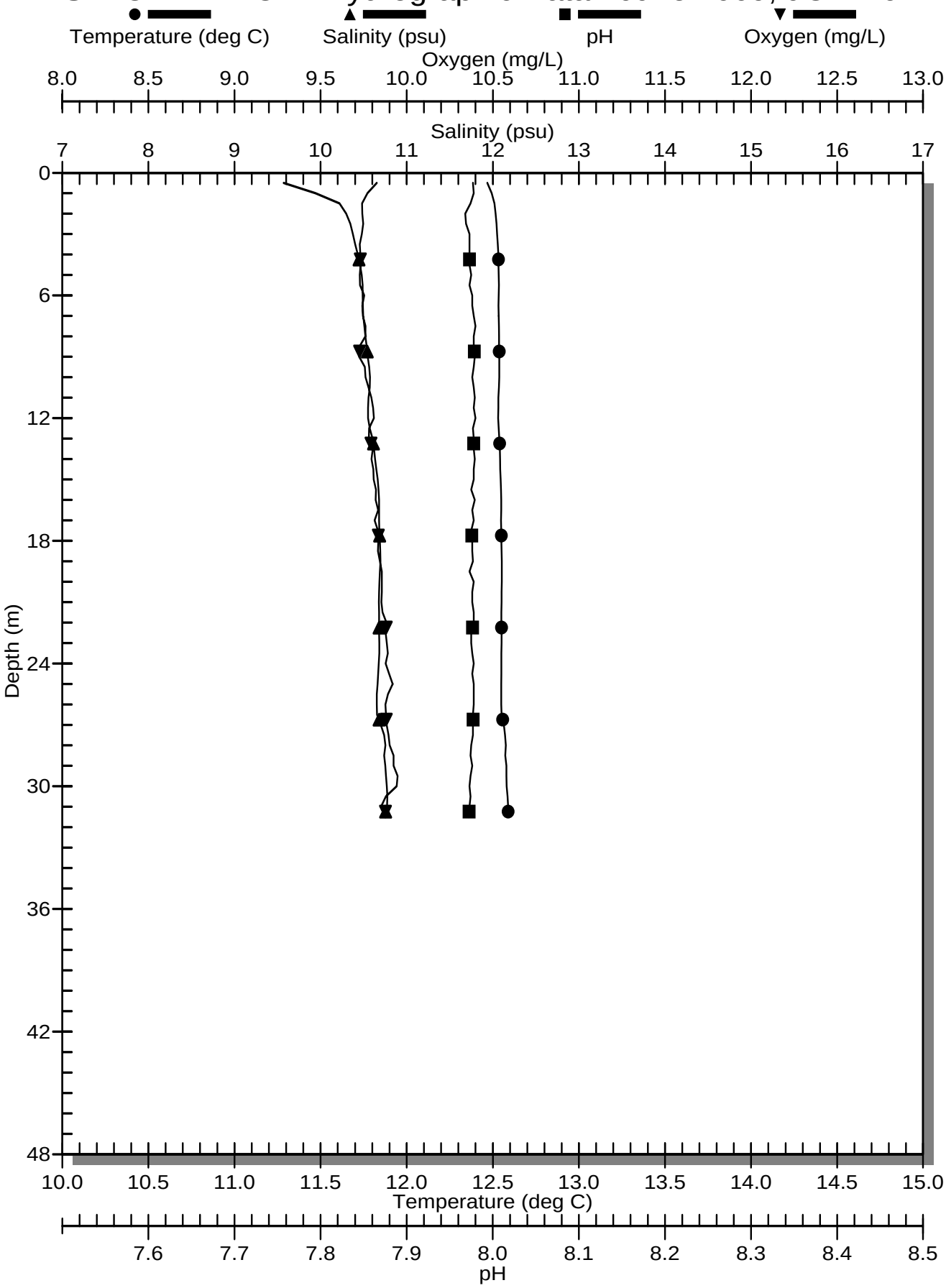


ASPLUND WPCF - Hydrographic Data - June 2009, uC2-3.cnv



ASPLUND WPCF - Hydrographic Data - June 2009, uC2-4.cnv



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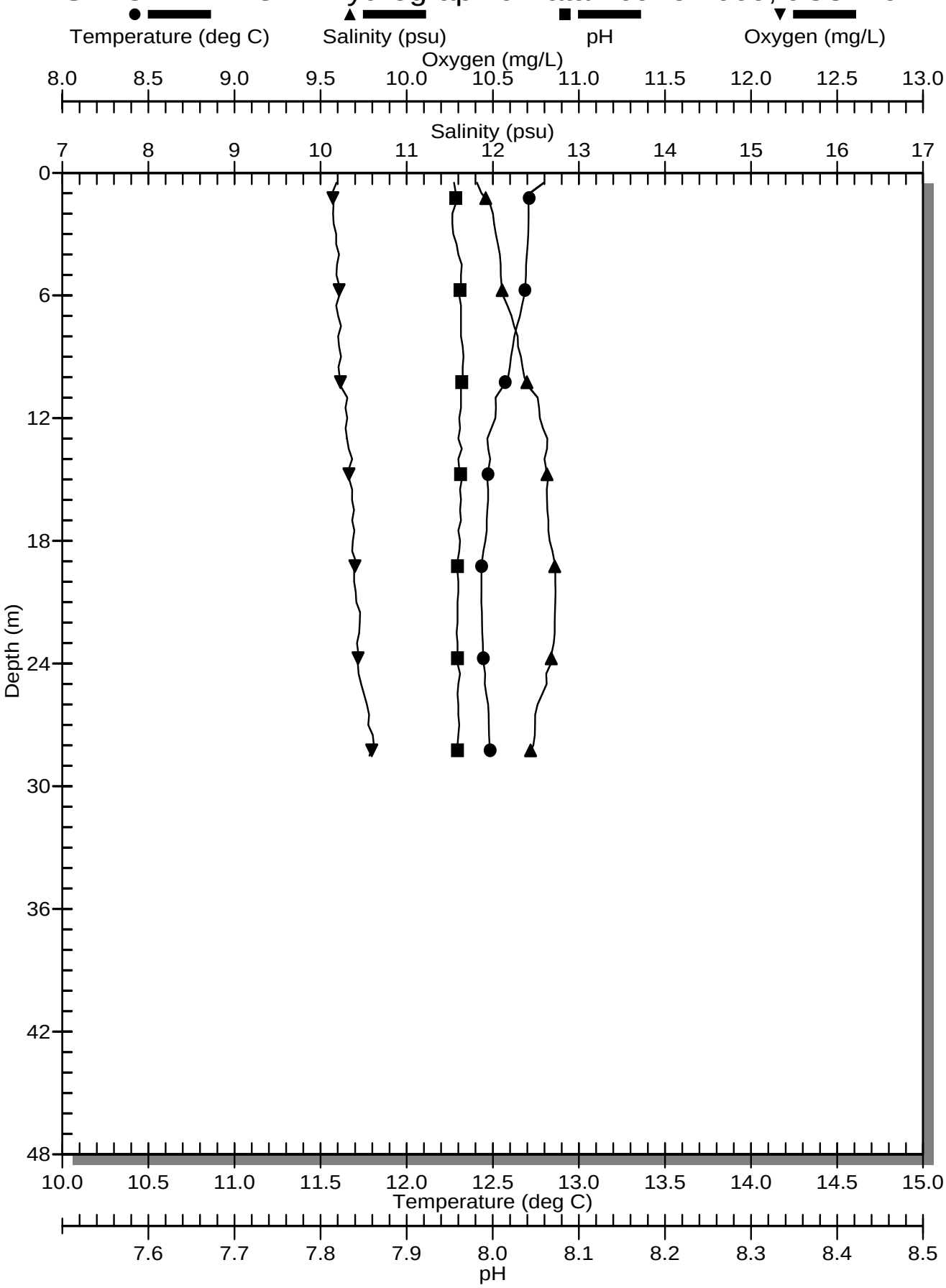
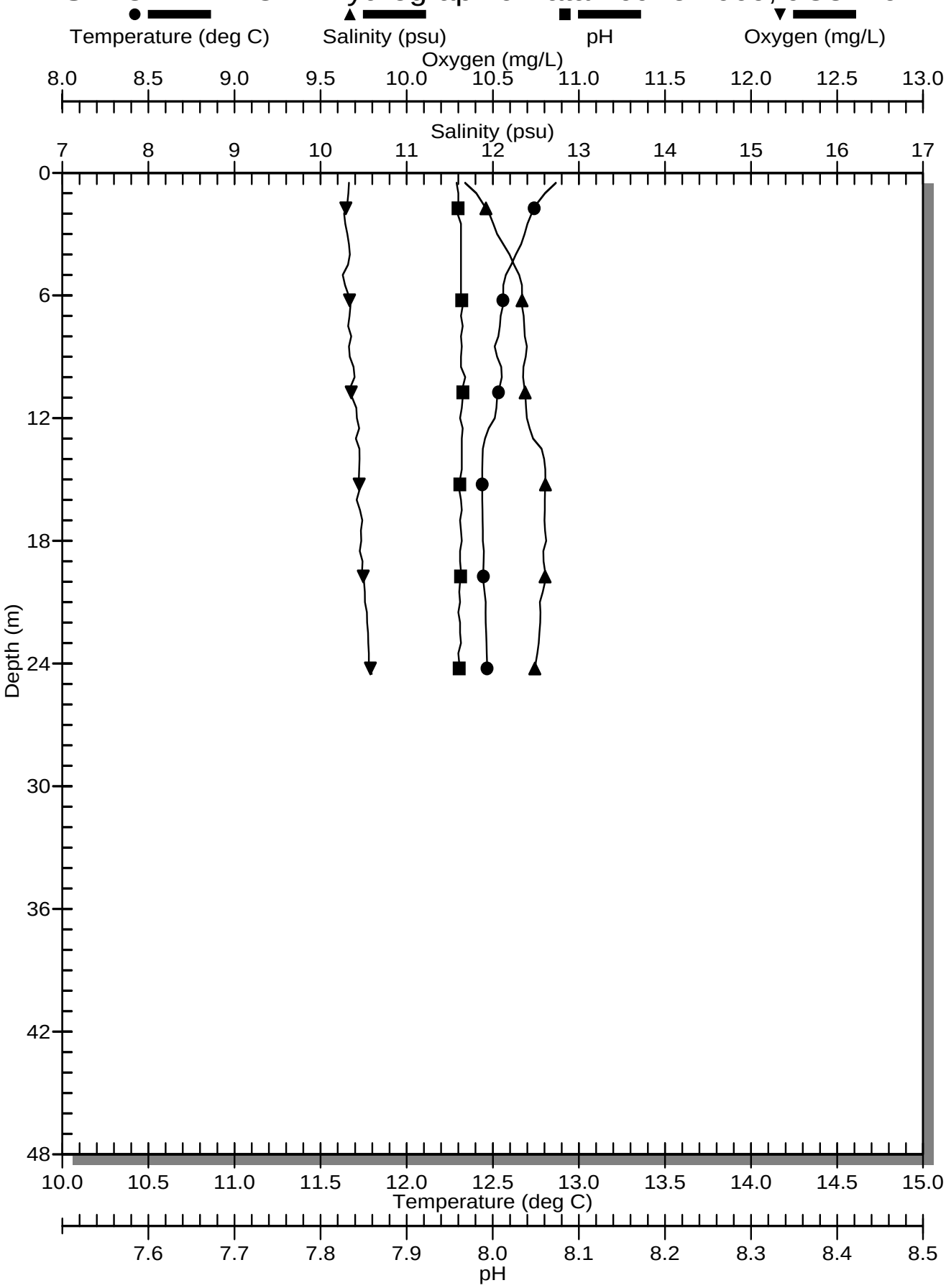


ASPLUND WPCF - Hydrographic Data - June 2009, uC3-2.cnv



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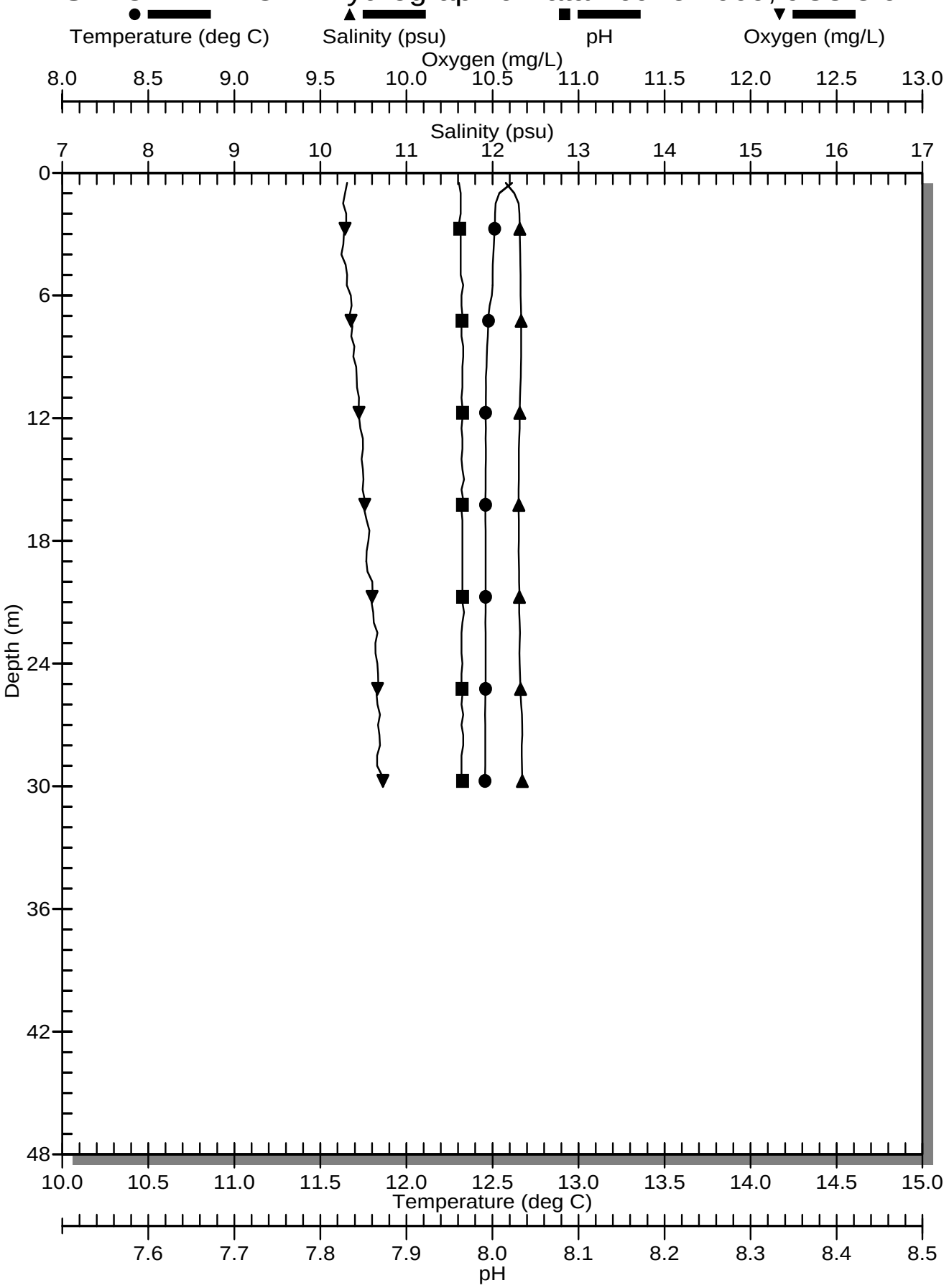

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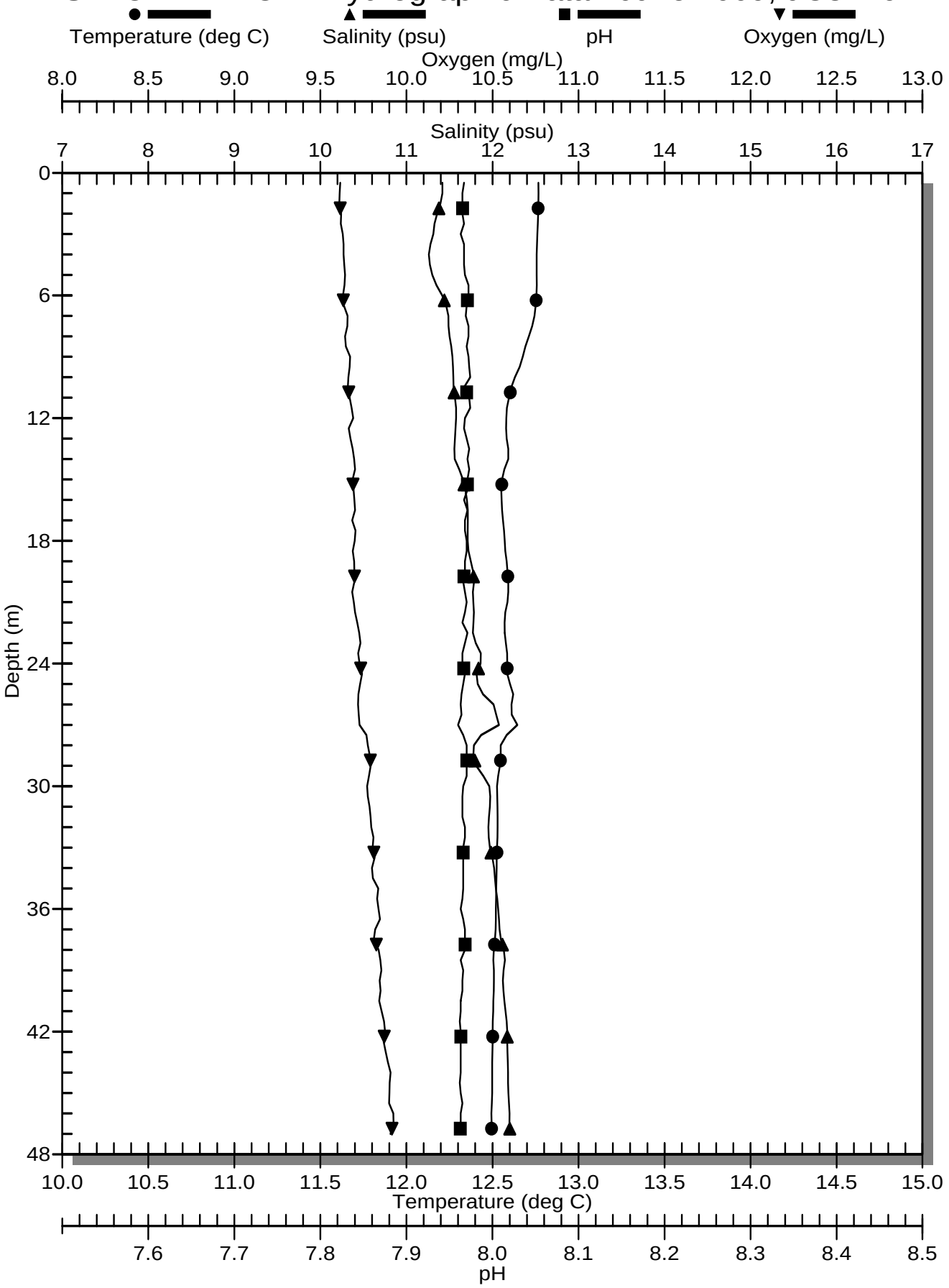

APPENDIX C

Receiving Water Quality Monitoring

C8 Field Data Sheets

Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	DATE: 6/23/09	Page 1 of 36
STATION: E1-1	TIME: 0826 ✓	
TIDE STAGE: Ebb	DEPTH: 13.2 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.342	DGPS? Circle Y or N	DGPS REFERENCE STN: *WAAS*
LONGITUDE (W): 150° 01.283	(Y)	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	01	01	01		01						
MID					02						
BOTTOM					03						

QC SAMPLES COLLECTED: - None

CSTD SeaBird: 376	CAST NO.: 01	CSTD ON TIME: 0826

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Overcast, rain, SW wind 5-10 knots

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	DATE: 6/23/09	Page 2 of 36
STATION: E1-2	TIME: 0836	
TIDE STAGE: Ebb	DEPTH: 16.1 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.247	DGPS? Circle Y or N	DGPS REFERENCE STN: *WAAS*
LONGITUDE (W): 150° 01.975		COORDINATE SYSTEM: *NAD83*

STATION LOCATION/DESCRIPTION: 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	02	02	02		04						
MID					05						
BOTTOM					06						

QC SAMPLES COLLECTED: None

CSTD SeaBird: 376	CAST NO.: 02	CSTD ON TIME: 0836

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 rain
5-10 knot SW

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 3 **of** 36
STATION: E1-3	**TIME:** 0846	
TIDE STAGE: Ebb	**DEPTH:** 13.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.048	**DGPS?** Circle Y or N: Y	**DGPS REFERENCE STN:** *WAAS*	
LONGITUDE (W): 150° 02.587		**COORDINATE SYSTEM:** *NAD83*	

STATION LOCATION/DESCRIPTION: 1300 m 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	03	03	03		07						
MID					08						
BOTTOM					09						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 03	**CSTD ON TIME:** 0846

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: B Lang

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 4 **of** 36
STATION: E1-4	**TIME:** 0912 ✓	
TIDE STAGE: Ebb	**DEPTH:** 16.1 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.367 ✓	**DGPS?** Circle Y or N: Y	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 04.458 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 3.3 Km SW of outfall just north of Woronzof Shoal

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	04	04	04	X	10						
MID	X	X	X	X	11	X	X	X	X	X	
BOTTOM	X	X	X	X	12	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD SeaBird: 376	**CAST NO.:** 04	**CSTD ON TIME:** 0912

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 drizzle wind picking up SW 15 knots, some white caps.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 5 **of** 36
STATION: E2-1	**TIME:** 1019 ✓	
TIDE STAGE: Ebb	**DEPTH:** 9.1 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.343 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.274 ✓		**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	05	05	05		13						
MID					14						
BOTTOM					15						

QC SAMPLES COLLECTED: At outfall

CSTD SeaBird: 376	**CAST NO.:** 05	**CSTD ON TIME:** 1019

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	logs, limbs, sticks	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Overcast, 10-15 SW

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 6 **of** 36
STATION: E2-2	**TIME:** 1023 ✓	
TIDE STAGE: Ebb	**DEPTH:** 13.7 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.340	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*	
LONGITUDE (W): 150° 02.042		**COORDINATE SYSTEM:** *NAD83*	

STATION LOCATION/DESCRIPTION: ZID Boundary, 650 W 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	06	06	06		16						
MID					17						
BOTTOM					18						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 06	**CSTD ON TIME:** 1020

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks / log	river	
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 2009*	**DATE:** 6/23/09	**Page** 7 **of** 36
STATION: E2-3	**TIME:** 1029 ✓	
TIDE STAGE: Ebb	**DEPTH:** 15.3 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.168 ✓	**DGPS?** Circle Y or N: Y	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 03.049 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1.7 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	07	07	07		19						
MID					20						
BOTTOM					21						

QC SAMPLES COLLECTED:

CSTD SeaBird: 376	**CAST NO.:** 7	**CSTD ON TIME:** 1029

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks / bags	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: 10-15 Knot SW overcast.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 8 **of** 36
STATION: E2-4	**TIME:** 1044 ✓	
TIDE STAGE: Ebb	**DEPTH:** 11.3 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.672 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 04.228 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 2.9 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	08	08	08		22						
MID					23						
BOTTOM					24						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 8	**CSTD ON TIME:** 1044

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	logs/branches	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Same
15-20 Knot - SW

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 9 **of** 36
STATION: E3-1	**TIME:** 1221✓	
TIDE STAGE: Ebb	**DEPTH:** 6.2 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.344✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.274✓		**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	09	09	09		25						
MID					26						
BOTTOM					27						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 9	**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: partly sunny, SW wind 5-10k.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 10 **of** 36
STATION: E3-2	**TIME:** 1232 ✓	
TIDE STAGE: Ebb	**DEPTH:** 8.5 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.241 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.977 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: on ZID boundary 650m 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:

CSTD SeaBird: 376	**CAST NO.:** 10	**CSTD ON TIME:** 1232

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 sunny, 5 knot northerly

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 11 **of** 36
STATION: E3-3	**TIME:** 1247 ✓	
TIDE STAGE: Ebb	**DEPTH:** 7.0 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.016 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 02.613 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1300 m WSW of outfall on offshore side of worm zone shoal

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	X	31						
MID	X	X	X	X	32	X	X	X	X	X	
BOTTOM	X	X	X	X	33	X	X	X	X	X	

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 11	**CSTD ON TIME:** 1247

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: A. Lomly

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 12 **of** 36
STATION: E3-4	**TIME:** 1309 ✓	
TIDE STAGE: Ebb	**DEPTH:** 5.6 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.662 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 03.367 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 2.2 km WSW of outfall on offshore side of Woronzof Shoal

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: none

CSTD SeaBird: 376	**CAST NO.:** 12	**CSTD ON TIME:** 1309

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: NE wind 5-10 knot overcast.

Reviewed by: S. Kawly

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 13 **of** 36
STATION: F1-1	**TIME:** ~~1520~~ 1524 ✓	
TIDE STAGE: Flood	**DEPTH:** 1.5 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.343 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.274 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: At outfall - sampled from skiff, too shallow for North Star, TRC Dupe

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	13		37	01	01	01	01	01	
MID					38						
BOTTOM					39						

QC SAMPLES COLLECTED: Metals / PAH / VOA / TSS / Cyanide

CSTD SeaBird: 376	**CAST NO.:** 13	**CSTD ON TIME:** 1523

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL	↓		
ODOR	chlorine odor		
RECREATION	few people on	beach	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: overcast, light NW wind

CTD from North Fork ~ 100m east of outfall

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 14 **of** 36
STATION: F1-2	**TIME:** 1555	
TIDE STAGE: Flood	**DEPTH:** 2.8 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.360	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 00.355		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: ZID Boundary ~ 650m 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	14	14	14		40	02/03	02	02	02	02	
MID					41						
BOTTOM					42						

QC SAMPLES COLLECTED: Duplicate 602 analysis, Chemistry station

CSTD SeaBird: 376	**CAST NO.:** 14	**CSTD ON TIME:** 1555

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL	↓		
ODOR	chlorine odor		
RECREATION	few people	walking beach	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: overcast, light NE wind

Reviewed by: A. [illegible]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 15 **of** 36
STATION: F1-3	**TIME:** 1610 ✓	
TIDE STAGE: Flood	**DEPTH:** 2.3 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.288 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*	
LONGITUDE (W): 150° 00.055 ✓		**COORDINATE SYSTEM:** *NAD83*	

STATION LOCATION/DESCRIPTION: 1100-1200 m 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	X	43	04	03	03	03	03	
MID	X	X	X	X	44	X	X	X	X	X	
BOTTOM	X	X	X	X	45	X	X	X	X	X	

QC SAMPLES COLLECTED: Chemistry samples

CSTD SeaBird: 376	**CAST NO.:** 15	**CSTD ON TIME:** 1610

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 sunny, light northerly breeze

Reviewed by: A Lund

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 16 **of** 36
STATION: F1-4	**TIME:** 1638 ✓	
TIDE STAGE: Flood	**DEPTH:** 2.7 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.167 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.795 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1.3 km east of outfall ~100m from shore

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		46						
MID					47						
BOTTOM					48						

QC SAMPLES COLLECTED:

CSTD SeaBird: 376	**CAST NO.:** 16	**CSTD ON TIME:** 1638

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 sunny, light northerly breeze

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 17 **of** 36
STATION: F2-1	**TIME:** 1655 ✓	
TIDE STAGE: Flood	**DEPTH:** 5.6	Feet Meters (Circle unit)

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.340 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.291 ✓		**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: none

CSTD SeaBird: 376	**CAST NO.:** 17	**CSTD ON TIME:** 1655

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL	↓		
ODOR	chlorine smell		
RECREATION	people on board		
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 18 **of** 36
STATION: F2-2	**TIME:** 1702	
TIDE STAGE: Flood	**DEPTH:** ~~18~~ 8.6 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.525	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 00.628		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: Z10 Boundary, 650 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	18	18	18		52						
MID					53						
BOTTOM					54						

QC SAMPLES COLLECTED: none

missing cast, CTD didn't turn on

CSTD SeaBird: 376	**CAST NO.:** 18	**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: Same

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 19 **of** 36
STATION: F2-3	**TIME:** 1714 ✓	
TIDE STAGE: Flood	**DEPTH:** 9.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.576 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.789 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1.4 Km Northeast 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	19	19	19		19 55						
MID					56						
BOTTOM					57						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 19	**CSTD ON TIME:** 1715

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, 5-10 Knot NE

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KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 20 **of** 36
STATION: F2-4	**TIME:** 1735 ✓	
TIDE STAGE: Flood	**DEPTH:** 9.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.528	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): GL 149 ~~150°~~ 59.230		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1.9 km east 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	20	20	20		58						
MID					59						
BOTTOM					60						

QC SAMPLES COLLECTED: None

CSTD SeaBird: 376	**CAST NO.:** 20	**CSTD ON TIME:** 1735

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 2009*	**DATE:** 6/23/09	**Page** 21 **of** 36
STATION: F3-1	**TIME:** 1809 ✓	
TIDE STAGE: Flood	**DEPTH:** 9.1	Feet (Meters) (Circle unit)

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.348 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 01.278 ✓		**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: none

CSTD SeaBird: 376	**CAST NO.:** 21	**CSTD ON TIME:** 1809

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION	few people	on beach	
WILDLIFE			

WEATHER INFORMATION/COMMENTS: 10-15 knot NW wind overcast, wind picking up

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/23/09	**Page** 22 **of** 36
STATION: F3-2	**TIME:** 1815	
TIDE STAGE: Flood	**DEPTH:** 12.6	Feet (Meters) (Circle unit)

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.348' 558	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 150° 00.707 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: ZID Boundary, 650 m 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: none

CSTD SeaBird: 376	**CAST NO.:** 22	**CSTD ON TIME:** 1815

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION	3 people on	boat	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: 15-20 knot NW wind overcast.

Reviewed by: _____

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	DATE: 6/23/09	Page 23 of 36
STATION: F3-3	TIME: 1823 ✓	
TIDE STAGE: Flood	DEPTH: 18.8 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.724 ✓	DGPS? Circle Y or N	DGPS REFERENCE STN: *WAAS*
LONGITUDE (W): 150° 00.085 ✓		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: none

CSTD SeaBird: 376	CAST NO.: 23	CSTD ON TIME: 1824

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 2009*	DATE: 6/23/09	Page 24 of 36
STATION: F3-4	TIME: 1835 ✓	
TIDE STAGE: Flood	DEPTH: 50 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.081 ✓	DGPS? Circle Y or N	DGPS REFERENCE STN: *WAAS*
LONGITUDE (W): 149° 59.124 ✓		COORDINATE SYSTEM: *NAD83*

STATION LOCATION/DESCRIPTION: 2.4 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		70						
MID					71						
BOTTOM					72						

QC SAMPLES COLLECTED:

CSTD SeaBird: 376	CAST NO.:	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: Winds picking up 20-25 Knot NW, seas 3' variable, lots of rips.

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 25 **of** 36
STATION: C1-1	**TIME:** 1609 ✓	
TIDE STAGE: Flood	**DEPTH:** 15.3 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.715 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.729 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 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: none, 602 - 6 sample bottles for MS/SD

CSTD SeaBird: 376	**CAST NO.:** 25	**CSTD ON TIME:** 1609

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 sunny, light breeze

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 26 **of** 36
STATION: C1-2	**TIME:** 1648 ✓	
TIDE STAGE: Flood	**DEPTH:** 15.0 Feet (Meters) (Circle ~~unit~~)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.759 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.124 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: ~ 600 m ENE of 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	26	26	26		76	06	05	05/06	05	05/06	
MID					77						
BOTTOM					78						

QC SAMPLES COLLECTED: Field Blank, dups on TSS + cyanide
VOA009

CSTD SeaBird: 376	**CAST NO.:** 26	**CSTD ON TIME:** 1649

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, light westerly breeze

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 27 **of** 36
STATION: C1-3	**TIME:** 1716 ✓	
TIDE STAGE: Flood	**DEPTH:** 19.3 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.384 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 55.520 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 4 km NE of drop, central channel

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	07	06	07	
MID					80						
BOTTOM					81						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 27	**CSTD ON TIME:** 1717

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: _____

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 28 **of** 36
STATION: C1-4	**TIME:** 1742 ✓	
TIDE STAGE: Flood	**DEPTH:** 42 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.393 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 54.313 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 6.0 km from drop in centre channel

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:

CSTD SeaBird: 376	**CAST NO.:** 28	**CSTD ON TIME:** 1742

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 5-10 Knots, 1-2 ft waves, partly sunny.

Reviewed by: _____

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 29 **of** 36
STATION: C2-1	**TIME:** 1812 ✓	
TIDE STAGE: Flood	**DEPTH:** 20.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.708 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.721 ✓		**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: ~~[illegible]~~

CSTD SeaBird: 376	**CAST NO.:** 29	**CSTD ON TIME:** 1814

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks/branches	log - rivers	
FOAM (other than trace)	none		
SHEEN OR OIL	↓		
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: SW wind 5-10 knots
1' waves

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 30 **of** 36
STATION: C-2-2	**TIME:** 1819 ✓	
TIDE STAGE: Flood	**DEPTH:** 26.0 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.832 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 58.557 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1 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	30/31 32	30/31 32	30/31 32		88 89 90						
MID					91						
BOTTOM					92						

QC SAMPLES COLLECTED: Triplicate TRC, Fecal, Color
Triplicate CTD cast.

CSTD SeaBird: 376	**CAST NO.:** 30	**CSTD ON TIME:** 1820

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks	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 2009*	**DATE:** 6/24/09	**Page** 31 **of** 36
STATION: C2-3	**TIME:** 1844 ✓	
TIDE STAGE: Flood	**DEPTH:** 36.0	Feet (Meters) (Circle unit)

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.260 ✓	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 54.148 ✓		**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	33	33	33		93						
MID					94						
BOTTOM					95						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 31	**CSTD ON TIME:** 1846

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 2009*	**DATE:** 6/24/09	**Page** 32 **of** 36
STATION: C2-4	**TIME:** 1855	
TIDE STAGE: Flood	**DEPTH:** 45.0 Feet (Meters) (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 16.057	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 53.479		**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	34	34	34		96						
MID					97						
BOTTOM					98						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 32	**CSTD ON TIME:** 1857

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: _____

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 33 **of** 36
STATION: C3-1	**TIME:** 1936 ✓	
TIDE STAGE: Flood	**DEPTH:** 23.7 · Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.713 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 59.735 ✓		**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 37	35 36 37		99 ~~100~~ 101						
MID					102						
BOTTOM					103						

QC SAMPLES COLLECTED: ~~[illegible]~~ Lab. triplicates

CSTD SeaBird: 376	**CAST NO.:** 33	**CSTD ON TIME:** 1937

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 sunny, SW wind 5-10 knot

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 34 **of** 36
STATION: C3-2	**TIME:** 1948 ✓	
TIDE STAGE: Flood	**DEPTH:** 27.7 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.878 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 57.673 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 1.8 Km NE of Control Dup, central channel

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	36	38	38		104						
MID					105						
BOTTOM					106						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 34	**CSTD ON TIME:** 1948

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 2009*	**DATE:** 6/24/09	**Page** 35 **of** 36
STATION: C3-3	**TIME:** 2005 ✓	
TIDE STAGE: Flood	**DEPTH:** 35.1 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.571 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*
LONGITUDE (W): 149° 54.919 ✓		**COORDINATE SYSTEM:** *NAD83*

STATION LOCATION/DESCRIPTION: 4.7 Km NE of control Prop, central channel.

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	37	39	39		107						
MID					108						
BOTTOM					109						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 35	**CSTD ON TIME:** 2007

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks / limbs	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL	↓		
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: Sun

Reviewed by: [signature]

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Asplund WPCF NPDES 2009*	**DATE:** 6/24/09	**Page** 36 **of** 36
STATION: C3-4	**TIME:** 2020 ✓	
TIDE STAGE: Flood	**DEPTH:** 34.6 Feet Meters (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.512 ✓	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** *WAAS*	
LONGITUDE (W): 149° 53.901 ✓		**COORDINATE SYSTEM:** *NAD83*	

STATION LOCATION/DESCRIPTION: 6.4 km NE of 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	38	40	40		110						
MID					111						
BOTTOM					112						

QC SAMPLES COLLECTED: none

CSTD SeaBird: 376	**CAST NO.:** 36	**CSTD ON TIME:** 2021

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	sticks/logs etc	rivers	
FOAM (other than trace)	none		
SHEEN OR OIL	↓		
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: overcast / pretty sunny
tidal rips

Reviewed by: _____

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**Page** 1 **of** 9
RELEASE POINT: E1	**NUMBER RELEASED:** 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: *WAAS*	**COORDINATE SYSTEM:** *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
0826	1	61° 12.342	150° 01.283	*	E1-1
0834		12.270	01.834		
0837		12.247	01.975		E1-2
0842		12.138	02.305		
0846		12.048	02.587		E1-3
0854		11.861	03.157		
0901		11.660	03.679		
0906		11.547	03.993		
0912		11.367	04.458		E1-4
0920		11.163	05.099		
0932		10.895	06.100		
0944		10.733	07.369		
0949		10.705	07.782		picked drogue

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**Page** 2 **of** 9
RELEASE POINT: E2	**NUMBER RELEASED:** 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: *WAAS*	**COORDINATE SYSTEM:** *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1019	1	61° 12.343	150° 01.274		E2-1
1023		12.340	02.042		E2-2
1029		12.168	03.049		E2-3
1044		11.672	04.228		E2-4
1050		11.531	04.492		picked up

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**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
1221		61° 12.344	150° 01.274	*	E3-1
1229		12.286	01.808		
1232		12.241	01.977		E3-2 #10
1238		12.131	02.260		
1247		12.016	02.613		E3-3
1259		11.826	03.040		
1305		11.732	03216		
1309		11.662	03.367		E3-4
1315		11.534	03.615		
1324		11.387	03.977		
1330		11.269	04.270		
1339		11.064	04.832		
1350		10.850	05.587		picked drogue

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**Page** 4 **of** 9
RELEASE POINT: Outfall-F1	**NUMBER RELEASED:** 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: *WAAS*	**COORDINATE SYSTEM:** *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1524	1	61° 12.343	150° 01.274		F1-1
1549		12.382	00.841		
1555		12.360	00.355		F1-2 ZID
1603		12.331	00.306		
1610		12.288	00.055		F1-3
1618		12.244	149° 59.889		
1622		12.224	59.832		
1629		12.191	59.778		
1632		12.185	59.771		
1638		12.167	59.795		F1-4
1647		12.157	59.875		picked drogue

Reviewed By: _____ Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**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
1655		61° 12.340	150° 01.291		F2-1
1659		12.469	00.809		
1702		12.525	00.628		F2-2 (*)
1706		12.572	00.320		
1714		12.576	149° 59.789		F2-3
1720		12.535	59.474		
1728		12.530	59.301		
1735		12.528	59.230		F2-4
1744		12.542	59.122		
1750		12.541	59.051		
1757		12.546	58.906		picked drogue

Reviewed By: _____ Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/23/09	**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
1809 ✓		61° 12.348	150° 01.288 ✓	X	F3-1
1815 ✓		12.558 ✓	00.707 ✓		F3-2
1818		12.634	00.390		
1823		12.724 ✓	00.085 ✓		F3-3
1832		12.915	149° 59.336		
1835 ✓		13.081 ✓	59.124 ✓		F3-4
1849		13.420	57.579		picked drogue

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/24/09	**Page** 7 **of** 9
RELEASE POINT: Control – C1	**NUMBER RELEASED:** 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: *WAAS*	**COORDINATE SYSTEM:** *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1609 ✓		61° 13.715 ✓	149° 59.729 ✓		C1-1
1626		13.701	59.741		
1637		13.723	59.467		
1648 ✓		13.759 ✓	59.124 ✓		C1-2
1656		13.824	58.057		
1706		14.002	56.861		
1711		14.133	56.257		
1716 ✓		14.384 ✓	55.520 ✓		C1-3
1726		14.861	54.759		
1731		15.040	54.571		
1736		15.138	54.464		
1742 ✓		15.393 ✓	54.313 ✓		C1-4
1751		15.846	54.015		picked drogue

Reviewed By: A Long Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/24/09	**Page** 8 **of** 9
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
1812		61° 13.708	149° 59.726		C2-1
1819		13.832	58.557		C2-2
1822		13.899	58.028		
1829		14.186	56.514		
1834		14.579	55.449		
1841		15.016	54.471		
1844		15.260	54.148		C2-3
1855		16.057	53.479		C2-4
1904		16.729	53.012		
1909		17.177	52.724		
1912		17.390	52.588		picked drogue

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2009*	**DATE:** 6/24/09	**Page** 9 **of** 9
RELEASE POINT: Control - C3	**NUMBER RELEASED:** 1	
DGPS REFERENCE STATION INFORMATION		
DIFFERENTIAL STATION: *WAAS*	**COORDINATE SYSTEM:** *NAD83*	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1936 ✓		61° 13.713 ✓	149° 59.735 ✓		C3-1
1941		13.753	58.983		
1946		13.820	58.129		
1948 ✓		13.878 ✓	57.673 ✓		C3-2
1956		14.091	56.328		
2001		14.340	55.460		
2005 ✓		14.571 ✓	54.919 ✓		C3-3 ✓
2013		15.114	53.916		
2020 ✓		15.512 ✓	53.701 ✓		C3-4
2030		16.180	52.987		
2042		16.576	52.077		pick 2 drogue

Reviewed By: [signature] Date: 11/3/09

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set