MONITORING PROGRAM ANNUAL REPORT

JANUARY - DECEMBER 2006

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 2007

APPENDICES

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A1 Oil & Grease and Cyanide

Anchorage Water and Wastewater Utility

Mark Begich
Mayor

ANCHORAGE WATER AND WASTEWATER UTILITY
WATER QUALITY SECTION - LABORATORY SERVICES

ANALYTICAL RESULTS

Date of the Report: 10/26/06

Owned by the
Municipality of Anchorage

Sample ID			AA55380	AA55381	AA55385	AA55386	AA55387	AA55388
Sample Location			Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent
Collection Date			06/27-28/06	06/27-28/06	06/28-29/06	06/28-29/06	06/29-30/06	06/29-30/06
Sample Collector			P. JESKIE	P. JESKIE	P. JESKIE	P. JESKIE	B. NIZIOL	B. NIZIOL
Project Code			WW-PW	WW-PW	WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Cyanide, Total	4500CN C,E	mg/L	ND (<0.001)	0.005	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)

Sample ID			AA55960	AA55961	AA55965	AA55966	AA55967	AA55968
Sample Location			Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent
Collection Date			08/15-16/06	08/15-16/06	08/16-17/06	08/16-17/06	08/17-18/06	08/17-18/06
Sample Collector			P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE
Project Code			WW-PW	WW-PW	WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Cyanide, Total	4500CN C,E	mg/L	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)

QA/QC data available upon request. ND = Not Detected (Method Detection Limit in parentheses)

Reported by: Mark Spano Date: 10/26/06

Mark Spano, Water Quality Section Supervisor

W:\Wastewater\Asplund WWTF\Toxic Pollutants\2006\CN results.doc

Mark Begich
Mayor

ANCHORAGE WATER AND WASTEWATER UTILITY
WATER QUALITY SECTION - LABORATORY SERVICES

ANALYTICAL RESULTS

Date of the Report: 10/26/06

Owned by the
Municipality of Anchorage

Sample ID			AA55383	AA55384	AA55963	AA55964
Sample Location			Pt. Woronzof WWTF Influent	Pt. Woronzof WWTF F. Effluent	Pt. Woronzof WWTF Influent	Pt. Woronzof WWTF F. Effluent
Collection Date			06/27/06	06/27/06	08/15/06	08/15/06
Sample Collector			B. NIZIOL	B. NIZIOL	S.LANG	S.LANG
Project Code			WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**
Oil and Grease (O&G)	EPA 1664	mg/L	49.4	19.9	51.9[1]	19.4[1]

[1] Matrix spike recovery (74%) was slightly outside the 78-114 range specified by the method. Check sample recovery was acceptable.

QA/QC data available upon request.

Reported by: Mark Spano Date: 10/26/06

Mark Spano, Water Quality Section Supervisor

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A2 Metals

Soil Control Lab

JUNE SAMPLING, METALS, SOIL CONTROL LAB SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06MET001	INFLUENT	SAMPLE
MOA06MET002	EFFLUENT	SAMPLE
MOA06MET003	SLUDGE	SAMPLE
MOA06MET004	INFLUENT	SAMPLE
MOA06MET005	EFFLUENT	SAMPLE
MOA06MET006	INFLUENT	SAMPLE
MOA06MET007	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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6060811

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 6/29/2006 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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6060811-01	MOA06MET001	Influent	Water	06/28/06 08:00	06/29/06 10:30
6060811-02	MOA06MET002	Effluent	Water	06/28/06 08:00	06/29/06 10:30

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Date Received: June 29, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET001
Matrix: Water
Laboratory #: 6060811-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	0.66	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	0.56	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.018	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	2.9	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	6.1	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	1.3	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.96	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	2.6	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.38	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	3.9	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	81	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	4.8	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.11	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	4.1	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	4.1	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	180	ug/L	1.0	1	EPA 200.8	07/17/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Date Received: June 29, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET002
Matrix: Water
Laboratory #: 6060811-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	1.2	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	0.79	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	1.4	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	0.64	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.035	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	3.7	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	9.6	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	3.3	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.65	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	2.4	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.27	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	2.2	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	51	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	2.7	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.13	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	2.8	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	1.4	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	3.1	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	100	ug/L	1.0	1	EPA 200.8	07/17/06	

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Blank (PG60157-BLK2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	0.3150		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
LCS (PG60157-BS2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.75		0.50	ug/L	20.00		93.8	80-120		20	
Total Arsenic (As)	21.44		0.50	"	20.00		107	80-120		20	
Total Beryllium (Be)	17.76		0.50	"	20.00		88.8	80-120		20	
Total Cadmium (Cd)	18.88		0.20	"	20.00		94.4	80-120		20	
Total Chromium (Cr)	22.17		0.50	"	20.00		111	80-120		20	
Total Copper (Cu)	21.66		0.50	"	20.00		108	80-120		20	
Total Lead (Pb)	17.69		0.20	"	20.00		88.4	80-120		20	
Total Nickel (Ni)	22.34		0.50	"	20.00		112	80-120		20	
Total Selenium (Se)	20.48		1.0	"	20.00		102	80-120		20	
Total Silver (Ag)	18.54		0.20	"	20.00		92.7	80-120		20	
Total Thallium (Tl)	17.22		0.50	"	20.00		86.1	80-120		20	
Total Zinc (Zn)	107.3		1.0	"	100.0		107	80-120		20	
LCS Dup (PG60157-BSD2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.55		0.50	ug/L	20.00		92.8	80-120	1.07	20	
Total Arsenic (As)	21.10		0.50	"	20.00		106	80-120	1.60	20	
Total Beryllium (Be)	17.61		0.50	"	20.00		88.0	80-120	0.848	20	
Total Cadmium (Cd)	18.73		0.20	"	20.00		93.6	80-120	0.798	20	
Total Chromium (Cr)	22.12		0.50	"	20.00		111	80-120	0.226	20	
Total Copper (Cu)	21.55		0.50	"	20.00		108	80-120	0.509	20	
Total Lead (Pb)	17.77		0.20	"	20.00		88.8	80-120	0.451	20	
Total Nickel (Ni)	21.17		0.50	"	20.00		106	80-120	5.38	20	
Total Selenium (Se)	22.82		1.0	"	20.00		114	80-120	10.8	20	
Total Silver (Ag)	18.42		0.20	"	20.00		92.1	80-120	0.649	20	
Total Thallium (Tl)	17.29		0.50	"	20.00		86.4	80-120	0.406	20	
Total Zinc (Zn)	106.9		1.0	"	100.0		107	80-120	0.373	20	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Duplicate (PG60157-DUP2)		**Source: 6070148-01**		Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	0.2740		0.50	ug/L		0.2730			0.366	20	
Total Arsenic (As)	56.29		0.50	"		55.64			1.16	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	ND		0.20	"		ND				20	
Total Chromium (Cr)	0.9200		0.50	"		1.521			49.2	20	QR-04
Total Copper (Cu)	0.4630		0.50	"		0.5970			25.3	20	QR-04
Total Lead (Pb)	0.4650		0.20	"		0.6330			30.6	20	QR-04
Total Nickel (Ni)	ND		0.50	"		ND				20	
Total Selenium (Se)	0.4100		1.0	"		0.2580			45.5	20	QR-04
Total Silver (Ag)	0.02400		0.20	"		0.02700			11.8	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	30.88		1.0	"		31.95			3.41	20	
Matrix Spike (PG60157-MS2)		**Source: 6070148-01**		Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	17.78		0.50	ug/L	20.00	0.2730	87.5	80-120		20	
Total Arsenic (As)	77.64		0.50	"	20.00	55.64	110	80-120		20	
Total Beryllium (Be)	18.67		0.50	"	20.00	ND	93.4	80-120		20	
Total Cadmium (Cd)	17.84		0.20	"	20.00	ND	89.2	80-120		20	
Total Chromium (Cr)	24.21		0.50	"	20.00	1.521	113	80-120		20	
Total Copper (Cu)	21.19		0.50	"	20.00	0.5970	103	80-120		20	
Total Lead (Pb)	18.73		0.20	"	20.00	0.6330	90.5	80-120		20	
Total Nickel (Ni)	20.81		0.50	"	20.00	ND	104	80-120		20	
Total Selenium (Se)	22.33		1.0	"	20.00	0.2580	110	80-120		20	
Total Silver (Ag)	17.12		0.20	"	20.00	0.02700	85.5	80-120		20	
Total Thallium (Tl)	17.72		0.50	"	20.00	ND	88.6	80-120		20	
Total Zinc (Zn)	136.5		1.0	"	100.0	31.95	105	80-120		20	
Matrix Spike Dup (PG60157-MSD2)		**Source: 6070148-01**		Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.09		0.50	ug/L	20.00	0.2730	89.1	80-120	1.73	20	
Total Arsenic (As)	77.96		0.50	"	20.00	55.64	112	80-120	0.411	20	
Total Beryllium (Be)	18.71		0.50	"	20.00	ND	93.6	80-120	0.214	20	
Total Cadmium (Cd)	18.21		0.20	"	20.00	ND	91.0	80-120	2.05	20	
Total Chromium (Cr)	24.43		0.50	"	20.00	1.521	115	80-120	0.905	20	
Total Copper (Cu)	21.59		0.50	"	20.00	0.5970	105	80-120	1.87	20	
Total Lead (Pb)	18.67		0.20	"	20.00	0.6330	90.2	80-120	0.321	20	
Total Nickel (Ni)	21.18		0.50	"	20.00	ND	106	80-120	1.76	20	
Total Selenium (Se)	23.12		1.0	"	20.00	0.2580	114	70-130	3.48	20	
Total Silver (Ag)	17.25		0.20	"	20.00	0.02700	86.1	80-120	0.756	20	
Total Thallium (Tl)	17.65		0.50	"	20.00	ND	88.2	80-120	0.396	20	
Total Zinc (Zn)	138.0		1.0	"	100.0	31.95	106	80-120	1.09	20	

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Reference (PG60157-SRM3)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	36.26		0.50	ug/L	35.60		102	80-120			
Total Arsenic (As)	87.71		0.50	"	90.80		96.6	80-120			
Total Beryllium (Be)	5.236		0.50	"	6.340		82.6	80-120			
Total Cadmium (Cd)	27.08		0.20	"	28.40		95.4	80-120			
Total Chromium (Cr)	157.5		0.50	"	135.0		117	80-120			
Total Copper (Cu)	1800		0.50	"	1620		111	80-120			
Total Lead (Pb)	81.77		0.20	"	86.10		95.0	80-120			
Total Nickel (Ni)	385.3		0.50	"	354.0		109	80-120			
Total Selenium (Se)	81.51		1.0	"	75.30		108	70-130			
Total Silver (Ag)	239.8		0.20	"	256.0		93.7	80-120			
Total Thallium (Tl)	4.601		0.50	"	5.010		91.8	80-120			
Total Zinc (Zn)	1851		1.0	"	1640		113	80-120			
Reference (PG60157-SRM4)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	34.42		0.50	ug/L	35.60		96.7	80-120			
Total Arsenic (As)	94.20		0.50	"	90.80		104	80-120			
Total Beryllium (Be)	5.702		0.50	"	6.340		89.9	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	150.4		0.50	"	135.0		111	80-120			
Total Copper (Cu)	1754		0.50	"	1620		108	80-120			
Total Lead (Pb)	79.07		0.20	"	86.10		91.8	80-120			
Total Nickel (Ni)	390.1		0.50	"	354.0		110	80-120			
Total Selenium (Se)	79.11		1.0	"	75.30		105	70-130			
Total Silver (Ag)	238.8		0.20	"	256.0		93.3	80-120			
Total Thallium (Tl)	4.458		0.50	"	5.010		89.0	80-120			
Total Zinc (Zn)	1826		1.0	"	1640		111	80-120			

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Blank (PH60060-BLK1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60060-BS1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.42		0.50	ug/L	20.00		97.1	85-115		20	
Dissolved Arsenic (As)	19.72		0.50	"	20.00		98.6	85-115		20	
Dissolved Beryllium (Be)	19.01		0.50	"	20.00		95.0	85-115		20	
Dissolved Cadmium (Cd)	19.62		0.20	"	20.00		98.1	85-115		20	
Dissolved Chromium (Cr)	19.21		0.50	"	20.00		96.0	85-115		20	
Dissolved Copper (Cu)	19.31		0.50	"	20.00		96.6	85-115		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00		96.6	85-115		20	
Dissolved Nickel (Ni)	19.24		0.50	"	20.00		96.2	85-115		20	
Dissolved Selenium (Se)	21.67		1.0	"	20.00		108	85-115		20	
Dissolved Silver (Se)	19.58		0.20	"	20.00		97.9	85-115		20	
Dissolved Thallium (Tl)	19.06		0.50	"	20.00		95.3	85-115		20	
Dissolved Zinc (Zn)	99.36		1.0	"	100.0		99.4	85-115		20	
LCS Dup (PH60060-BSD1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.38		0.50	ug/L	20.00		96.9	85-115	0.206	20	
Dissolved Arsenic (As)	20.20		0.50	"	20.00		101	85-115	2.40	20	
Dissolved Beryllium (Be)	19.38		0.50	"	20.00		96.9	85-115	1.93	20	
Dissolved Cadmium (Cd)	19.58		0.20	"	20.00		97.9	85-115	0.204	20	
Dissolved Chromium (Cr)	19.52		0.50	"	20.00		97.6	85-115	1.60	20	
Dissolved Copper (Cu)	19.53		0.50	"	20.00		97.6	85-115	1.13	20	
Dissolved Lead (Pb)	19.20		0.20	"	20.00		96.0	85-115	0.571	20	
Dissolved Nickel (Ni)	19.66		0.50	"	20.00		98.3	85-115	2.16	20	
Dissolved Selenium (Se)	21.95		1.0	"	20.00		110	85-115	1.28	20	
Dissolved Silver (Se)	19.71		0.20	"	20.00		98.6	85-115	0.662	20	
Dissolved Thallium (Tl)	19.05		0.50	"	20.00		95.2	85-115	0.0525	20	
Dissolved Zinc (Zn)	99.40		1.0	"	100.0		99.4	85-115	0.0403	20	

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Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Duplicate (PH60060-DUP1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L		0.1010				20	
Dissolved Arsenic (As)	1.237		0.50	"		1.293			4.43	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	1.107		0.50	"		1.061			4.24	20	
Dissolved Copper (Cu)	1.907		0.50	"		1.938			1.61	20	
Dissolved Lead (Pb)	0.3830		0.20	"		0.2320			49.1	20	QR-04
Dissolved Nickel (Ni)	3.220		0.50	"		3.009			6.77	20	
Dissolved Selenium (Se)	7.444		1.0	"		7.816			4.88	20	
Dissolved Silver (Se)	0.1010		0.20	"		0.1010			0.00	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	1.435		1.0	"		1.516			5.49	20	
Matrix Spike (PH60060-MS1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	18.12		0.50	ug/L	20.00	0.1010	90.1	75-125		20	
Dissolved Arsenic (As)	24.20		0.50	"	20.00	1.293	115	75-125		20	
Dissolved Beryllium (Be)	17.36		0.50	"	20.00	ND	86.8	75-125		20	
Dissolved Cadmium (Cd)	19.33		0.20	"	20.00	ND	96.6	75-125		20	
Dissolved Chromium (Cr)	22.24		0.50	"	20.00	1.061	106	75-125		20	
Dissolved Copper (Cu)	19.90		0.50	"	20.00	1.938	89.8	75-125		20	
Dissolved Lead (Pb)	20.64		0.20	"	20.00	0.2320	102	75-125		20	
Dissolved Nickel (Ni)	23.74		0.50	"	20.00	3.009	104	75-125		20	
Dissolved Selenium (Se)	40.88		1.0	"	20.00	7.816	165	75-125		20	QM-01
Dissolved Silver (Se)	15.68		0.20	"	20.00	0.1010	77.9	75-125		20	
Dissolved Thallium (Tl)	20.22		0.50	"	20.00	ND	101	75-125		20	
Dissolved Zinc (Zn)	106.9		1.0	"	100.0	1.516	105	75-125		20	
Matrix Spike Dup (PH60060-MSD1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	17.99		0.50	ug/L	20.00	0.1010	89.4	75-125	0.720	20	
Dissolved Arsenic (As)	24.55		0.50	"	20.00	1.293	116	75-125	1.44	20	
Dissolved Beryllium (Be)	16.30		0.50	"	20.00	ND	81.5	75-125	6.30	20	
Dissolved Cadmium (Cd)	19.17		0.20	"	20.00	ND	95.8	75-125	0.831	20	
Dissolved Chromium (Cr)	22.86		0.50	"	20.00	1.061	109	75-125	2.75	20	
Dissolved Copper (Cu)	20.71		0.50	"	20.00	1.938	93.9	75-125	3.99	20	
Dissolved Lead (Pb)	20.59		0.20	"	20.00	0.2320	102	75-125	0.243	20	
Dissolved Nickel (Ni)	24.47		0.50	"	20.00	3.009	107	75-125	3.03	20	
Dissolved Selenium (Se)	43.60		1.0	"	20.00	7.816	179	75-125	6.44	20	QM-01
Dissolved Silver (Se)	15.41		0.20	"	20.00	0.1010	76.5	75-125	1.74	20	
Dissolved Thallium (Tl)	20.26		0.50	"	20.00	ND	101	75-125	0.198	20	
Dissolved Zinc (Zn)	111.0		1.0	"	100.0	1.516	109	75-125	3.76	20	

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Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Reference (PH60060-SRM1)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	34.03		0.50	ug/L	35.60		95.6	80-120			
Dissolved Arsenic (As)	82.16		0.50	"	90.80		90.5	80-120			
Dissolved Beryllium (Be)	6.196		0.50	"	6.340		97.7	80-120			
Dissolved Cadmium (Cd)	26.49		0.20	"	28.40		93.3	80-120			
Dissolved Chromium (Cr)	130.6		0.50	"	135.0		96.7	80-120			
Dissolved Copper (Cu)	1563		0.50	"	1620		96.5	80-120			
Dissolved Lead (Pb)	85.02		0.20	"	86.10		98.7	80-120			
Dissolved Nickel (Ni)	340.9		0.50	"	354.0		96.3	80-120			
Dissolved Selenium (Se)	86.03		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	236.7		0.20	"	256.0		92.5	80-120			
Dissolved Thallium (Tl)	4.834		0.50	"	5.010		96.5	80-120			
Dissolved Zinc (Zn)	1652		1.0	"	1640		101	80-120			
Reference (PH60060-SRM2)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	33.42		0.50	ug/L	35.60		93.9	80-120			
Dissolved Arsenic (As)	87.81		0.50	"	90.80		96.7	80-120			
Dissolved Beryllium (Be)	6.129		0.50	"	6.340		96.7	80-120			
Dissolved Cadmium (Cd)	26.03		0.20	"	28.40		91.7	80-120			
Dissolved Chromium (Cr)	131.9		0.50	"	135.0		97.7	80-120			
Dissolved Copper (Cu)	1575		0.50	"	1620		97.2	80-120			
Dissolved Lead (Pb)	83.36		0.20	"	86.10		96.8	80-120			
Dissolved Nickel (Ni)	345.8		0.50	"	354.0		97.7	80-120			
Dissolved Selenium (Se)	75.08		1.0	"	75.30		99.7	80-120			
Dissolved Silver (Se)	244.0		0.20	"	256.0		95.3	80-120			
Dissolved Thallium (Tl)	4.810		0.50	"	5.010		96.0	80-120			
Dissolved Zinc (Zn)	1647		1.0	"	1640		100	80-120			

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Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60301 - EPA 245.7											
Blank (PH60301-BLK1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.00515		0.0050	ug/L							
Duplicate (PH60301-DUP1)			**Source: 6070008-01**		Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.0380		0.010	ug/L		0.0318			17.8	25	
Matrix Spike (PH60301-MS1)			**Source: 6070008-01**		Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.139		0.010	ug/L	0.100	0.0318	107	75-125		20	
Matrix Spike Dup (PH60301-MSD1)			**Source: 6070008-01**		Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.138		0.010	ug/L	0.100	0.0318	106	75-125	0.722	20	
Reference (PH60301-SRM1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	10.9		1.0	ug/L	11.5		94.8	80-120			
Batch PH60302 - EPA 245.7											
Blank (PH60302-BLK1)					Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60302-DUP1)			**Source: 6080081-04**		Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.0735		0.050	ug/L		0.0653			11.8	25	
Matrix Spike (PH60302-MS1)			**Source: 6080081-04**		Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.572		0.050	ug/L	0.500	0.0653	101	75-125		20	
Matrix Spike Dup (PH60302-MSD1)			**Source: 6080081-04**		Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.569		0.050	ug/L	0.500	0.0653	101	75-125	0.526	20	

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Work Order #: 6060811
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60302 - EPA 245.7											
Reference (PH60302-SRM1)				Prepared & Analyzed: 04-Aug-06							
Total Mercury (Hg)	11.6		1.0	ug/L	11.5		101	80-120			

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

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Attn: Tim Mayers

Work Order #: 6060811
Reporting Date: October 19, 2006

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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381 6060811 Fed Ex 0°C

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 Attn: Mike Galloway (408) 724-5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: Antimony and thallium (EPA 200.8), selenium (EPA 270.3), arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111 B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), zinc (SM18 3111 B), ~~and total CN (4500CN-C,E) Detection limit 10 µg/L~~.

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
MOA06MET001	Influent	1	6/24-28/06	0800-0800	Intact	6060811-01
MOA06MET002	Effluent	1	6/24-28/06	0800-0800	↓	-02

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
	6/28/06	Hand		6/29/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX	Kati King KATI KING	6/29/06 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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: Tim Mayers

November 06, 2006

RE: None provided (sediment) / 516.01
Workorder: 6060812

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 6/29/2006 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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6060812-01	MOA06MET003	Sludge	Sludge	06/28/06 06:00	06/29/06 10:30

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Date Received: June 29, 2006
Project # / Name: 516.01 / None provided (sediment)
Sample Identification: MOA06MET003
Matrix: Sludge
Laboratory #: 6060812-01

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.36	mg/kg dry	0.020	0.0020	0.588	EPA 335.2	07/10/06	
Percent Solids	29	% by Wt	0.10	0.0050	1	EPA 160.3	07/05/06	
Total Antimony (Sb)	1.9	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Arsenic (As)	4.2	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Beryllium (Be)	ND	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Cadmium (Cd)	1.7	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Chromium (Cr)	16	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Copper (Cu)	240	mg/kg dry	35	3.5	1000	EPA 6020	07/27/06	
Total Lead (Pb)	23	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Mercury (Hg)	1100	ug/kg dry	140	14	400	EPA 7471A	09/01/06	
Total Nickel (Ni)	14	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Selenium (Se)	3.6	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Silver (Ag)	10	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Thallium (Tl)	0.91	mg/kg dry	0.35	0.035	10	EPA 6020	07/27/06	
Total Zinc (Zn)	540	mg/kg dry	170	17	1000	EPA 6020	07/27/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

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 PH60237 - NO PREP											
Blank (PH60237-BLK1)					Prepared & Analyzed: 05-Jul-06						
Percent Solids	ND	0.0050	0.10	% by Wt							
Duplicate (PH60237-DUP1)		**Source: 6060812-01**			Prepared & Analyzed: 05-Jul-06						
Percent Solids	30.72	0.0050	0.10	% by Wt		28.87			6.21	20	
Batch PJ60099 - NO PREP											
Blank (PJ60099-BLK1)					Prepared & Analyzed: 10-Jul-06						
Cyanide (total)	ND		0.010	mg/kg wet							
Duplicate (PJ60099-DUP1)		**Source: 6060812-01**			Prepared & Analyzed: 10-Jul-06						
Cyanide (total)	0.3026		0.020	mg/kg dry		0.3581			16.8	20	
Matrix Spike (PJ60099-MS1)		**Source: 6060812-01**			Prepared & Analyzed: 10-Jul-06						
Cyanide (total)	2.163		0.20	mg/kg dry	2.035	0.3581	88.7	70-130			
Matrix Spike Dup (PJ60099-MSD1)		**Source: 6060812-01**			Prepared & Analyzed: 10-Jul-06						
Cyanide (total)	2.045		0.20	mg/kg dry	2.035	0.3581	82.9	70-130	5.61	20	
Reference (PJ60099-SRM1)					Prepared & Analyzed: 10-Jul-06						
Cyanide (total)	0.08532		0.010	mg/kg wet	0.09660		88.3	70-130			

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60273 - EPA 3050B											
Blank (PG60273-BLK1)				Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	ND		0.10	mg/kg wet							
Total Arsenic (As)	ND		0.10	"							
Total Beryllium (Be)	ND		0.10	"							
Total Cadmium (Cd)	ND		0.10	"							
Total Chromium (Cr)	ND		0.10	"							
Total Copper (Cu)	ND		0.10	"							
Total Lead (Pb)	ND		0.10	"							
Total Nickel (Ni)	ND		0.10	"							
Total Selenium (Se)	ND		0.10	"							
Total Silver (Ag)	ND		0.10	"							
Total Thallium (Tl)	ND		0.10	"							
Total Zinc (Zn)	ND		0.50	"							
LCS (PG60273-BS1)				Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	18.92		0.10	mg/kg wet	20.00		94.6	85-115			
Total Arsenic (As)	1.806		0.10	"	2.000		90.3	85-115			
Total Beryllium (Be)	1.708		0.10	"	2.000		85.4	85-115			
Total Cadmium (Cd)	1.730		0.10	"	2.000		86.5	85-115			
Total Chromium (Cr)	18.37		0.10	"	20.00		91.8	85-115			
Total Copper (Cu)	18.66		0.10	"	20.00		93.3	85-115			
Total Lead (Pb)	9.780		0.10	"	10.00		97.8	85-115			
Total Nickel (Ni)	18.51		0.10	"	20.00		92.6	85-115			
Total Selenium (Se)	0.9018		0.10	"	1.000		90.2	85-115			
Total Silver (Ag)	1.847		0.10	"	2.000		92.4	85-115			
Total Thallium (Tl)	17.84		0.10	"	20.00		89.2	85-115			
Total Zinc (Zn)	19.06		0.50	"	20.00		95.3	85-115			
LCS Dup (PG60273-BSD1)				Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	18.92		0.10	mg/kg wet	20.00		94.6	85-115	0.00	20	
Total Arsenic (As)	1.850		0.10	"	2.000		92.5	85-115	2.41	20	
Total Beryllium (Be)	1.708		0.10	"	2.000		85.4	85-115	0.00	20	
Total Cadmium (Cd)	1.756		0.10	"	2.000		87.8	85-115	1.49	20	
Total Chromium (Cr)	18.56		0.10	"	20.00		92.8	85-115	1.03	20	
Total Copper (Cu)	18.81		0.10	"	20.00		94.0	85-115	0.801	20	
Total Lead (Pb)	9.732		0.10	"	10.00		97.3	85-115	0.492	20	
Total Nickel (Ni)	18.50		0.10	"	20.00		92.5	85-115	0.0540	20	
Total Selenium (Se)	0.9628		0.10	"	1.000		96.3	85-115	6.54	20	
Total Silver (Ag)	1.852		0.10	"	2.000		92.6	85-115	0.270	20	
Total Thallium (Tl)	17.84		0.10	"	20.00		89.2	85-115	0.00	20	
Total Zinc (Zn)	19.17		0.50	"	20.00		95.8	85-115	0.575	20	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60273 - EPA 3050B											
Duplicate (PG60273-DUP1)		**Source: 6060842-01**		Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	1.051		0.099	mg/kg wet		0.8882			16.8	20	
Total Arsenic (As)	6.483		0.099	"		5.848			10.3	20	
Total Beryllium (Be)	0.1039		0.099	"		0.09800			5.84	20	
Total Cadmium (Cd)	1.259		0.099	"		1.318			4.58	20	
Total Chromium (Cr)	169.8		9.9	"		160.0			5.94	20	
Total Copper (Cu)	327.9		9.9	"		352.8			7.32	20	
Total Lead (Pb)	400.5		9.9	"		728.0			58.0	20	QR-01
Total Nickel (Ni)	425.3		9.9	"		456.5			7.08	20	
Total Selenium (Se)	1.322		0.099	"		1.334			0.904	20	
Total Silver (Ag)	0.2956		0.099	"		0.2618			12.1	20	
Total Thallium (Tl)	0.09995		0.099	"		0.2090			70.6	20	QR-01
Total Zinc (Zn)	468.8		50	"		575.5			20.4	20	QR-01
Matrix Spike (PG60273-MS1)		**Source: 6060842-01**		Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	4.940		0.10	mg/kg wet	20.00	0.8882	20.3	70-130			A-01
Total Arsenic (As)	9.822		0.10	"	2.000	5.848	199	70-130			A-01
Total Beryllium (Be)	1.758		0.10	"	2.000	0.09800	83.0	70-130			A-01
Total Cadmium (Cd)	3.252		0.10	"	2.000	1.318	96.7	70-130			
Total Chromium (Cr)	192.1		10	"	20.00	160.0	160	70-130			A-01
Total Copper (Cu)	349.5		10	"	20.00	352.8	NR	70-130			A-01
Total Lead (Pb)	788.0		10	"	10.00	728.0	600	70-130			A-01
Total Nickel (Ni)	520.2		10	"	20.00	456.5	319	70-130			A-01
Total Selenium (Se)	2.439		0.10	"	1.000	1.334	110	70-130			A-01
Total Silver (Ag)	2.155		0.10	"	2.000	0.2618	94.7	70-130			A-01
Total Thallium (Tl)	16.91		0.10	"	20.00	0.2090	83.5	70-130			A-01
Total Zinc (Zn)	682.2		50	"	20.00	575.5	534	70-130			A-01
Matrix Spike Dup (PG60273-MSD1)		**Source: 6060842-01**		Prepared & Analyzed: 27-Jul-06							
Total Antimony (Sb)	5.748		0.10	mg/kg wet	20.00	0.8882	24.3	70-130	15.1	20	A-01
Total Arsenic (As)	8.715		0.10	"	2.000	5.848	143	70-130	11.9	20	A-01
Total Beryllium (Be)	1.696		0.10	"	2.000	0.09800	79.9	70-130	3.59	20	A-01
Total Cadmium (Cd)	3.315		0.10	"	2.000	1.318	99.8	70-130	1.92	20	
Total Chromium (Cr)	269.2		10	"	20.00	160.0	546	70-130	33.4	20	A-01
Total Copper (Cu)	401.5		10	"	20.00	352.8	244	70-130	13.8	20	A-01
Total Lead (Pb)	692.2		10	"	10.00	728.0	NR	70-130	12.9	20	A-01
Total Nickel (Ni)	491.8		10	"	20.00	456.5	176	70-130	5.61	20	A-01
Total Selenium (Se)	2.121		0.10	"	1.000	1.334	78.7	70-130	13.9	20	A-01
Total Silver (Ag)	2.064		0.10	"	2.000	0.2618	90.1	70-130	4.31	20	A-01
Total Thallium (Tl)	17.36		0.10	"	20.00	0.2090	85.8	70-130	2.63	20	A-01
Total Zinc (Zn)	784.2		50	"	20.00	575.5	NR	70-130	13.9	20	A-01

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60273 - EPA 3050B											
Reference (PG60273-SRM1)					Prepared & Analyzed: 27-Jul-06						
Total Antimony (Sb)	106.0		2.0	mg/kg wet	105.0		101	75-125			
Total Arsenic (As)	304.2		2.0	"	283.0		107	75-125			
Total Beryllium (Be)	48.78		2.0	"	46.70		104	75-125			
Total Cadmium (Cd)	54.35		2.0	"	50.70		107	75-125			
Total Chromium (Cr)	70.95		2.0	"	64.80		109	75-125			
Total Copper (Cu)	179.2		2.0	"	169.0		106	75-125			
Total Lead (Pb)	93.55		2.0	"	84.70		110	75-125			
Total Nickel (Ni)	66.85		2.0	"	58.80		114	75-125			
Total Selenium (Se)	138.4		2.0	"	124.0		112	75-125			
Total Silver (Ag)	100.5		2.0	"	92.20		109	75-125			
Total Thallium (Tl)	96.00		2.0	"	90.40		106	75-125			
Total Zinc (Zn)	169.4		10	"	149.0		114	75-125			
Batch PI60003 - Default Prep Metals											
Blank (PI60003-BLK1)					Prepared & Analyzed: 01-Sep-06						
Total Mercury (Hg)	ND		0.040	ug/kg wet							
Duplicate (PI60003-DUP1)		**Source: 6060812-01**			Prepared & Analyzed: 01-Sep-06						
Total Mercury (Hg)	1055		140	ug/kg dry		1052			0.285	25	
Matrix Spike (PI60003-MS1)		**Source: 6060812-01**			Prepared & Analyzed: 01-Sep-06						
Total Mercury (Hg)	2913		140	ug/kg dry	1730	1052	108	75-125			
Matrix Spike Dup (PI60003-MSD1)		**Source: 6060812-01**			Prepared & Analyzed: 01-Sep-06						
Total Mercury (Hg)	2737		140	ug/kg dry	1730	1052	97.4	75-125	6.23	25	

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Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PI60003 - Default Prep Metals											
Reference (PI60003-SRM1)					Prepared & Analyzed: 01-Sep-06						
Total Mercury (Hg)	114.0		8.0	ug/kg wet	115.0		99.1	80-120			

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Attn: Tim Mayers

Work Order #: 6060812
Reporting Date: November 6, 2006

Notes and Definitions

QR-01	The high RPD of the duplicates exceeded the QC control limits which indicates the lack of homogenity in the sample chosen.
A-01	The amount of metals spiked into the sample choosen for the metals MS/MSD was insignificant compared to the amount originally in the sample. This leads to erratic recoveries.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381 6060812

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:** Fed Ex 0°C
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 Attn: Mike Galloway (408)724-5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010 — **KLI Proj. #:** 516.01

ANALYSIS TYPE: Total Metals: Antimony and thallium (EPA 6020), selenium (EPA 7741), arsenic (EPA 7060A), beryllium (EPA 7091), cadmium (EPA 7130A), chromium (EPA 7190), copper (EPA 7210), lead (EPA 7421), mercury (EPA 7470A), nickel (EPA 7520), silver (EPA 7761), zinc (EPA 7950), 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:** 250-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06MET003	Sludge	1	6/27-28/06	0901-0600	Intact	6060812-01

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
	6/28/06	FedEx		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1900	FEDEX	Kati King KATI KING	6/29/06 1030
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6060862

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 6/30/2006 10:00:00 AM.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Mike Galloway

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6060862-01	MOA06MET004	Influent	Water	06/29/06 09:00	06/30/06 10:00
6060862-02	MOA06MET005	Effluent	Water	06/29/06 09:00	06/30/06 10:00

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET004
Matrix: Water
Laboratory #: 6060862-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	0.70	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	0.70	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	0.81	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.033	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	4.0	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	8.1	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	1.9	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.93	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	2.9	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.36	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	6.3	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	88	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	4.1	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.090	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	6.3	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	1.1	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	4.2	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	180	ug/L	1.0	1	EPA 200.8	07/17/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET005
Matrix: Water
Laboratory #: 6060862-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	1.1	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	0.60	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	1.7	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.035	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	2.6	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	9.0	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	1.1	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.68	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	2.6	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.28	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	3.1	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	60	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	2.7	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.083	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	3.3	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	1.2	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	3.1	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	100	ug/L	1.0	1	EPA 200.8	07/17/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Blank (PG60157-BLK2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	0.3150		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
LCS (PG60157-BS2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.75		0.50	ug/L	20.00		93.8	80-120		20	
Total Arsenic (As)	21.44		0.50	"	20.00		107	80-120		20	
Total Beryllium (Be)	17.76		0.50	"	20.00		88.8	80-120		20	
Total Cadmium (Cd)	18.88		0.20	"	20.00		94.4	80-120		20	
Total Chromium (Cr)	22.17		0.50	"	20.00		111	80-120		20	
Total Copper (Cu)	21.66		0.50	"	20.00		108	80-120		20	
Total Lead (Pb)	17.69		0.20	"	20.00		88.4	80-120		20	
Total Nickel (Ni)	22.34		0.50	"	20.00		112	80-120		20	
Total Selenium (Se)	20.48		1.0	"	20.00		102	80-120		20	
Total Silver (Ag)	18.54		0.20	"	20.00		92.7	80-120		20	
Total Thallium (Tl)	17.22		0.50	"	20.00		86.1	80-120		20	
Total Zinc (Zn)	107.3		1.0	"	100.0		107	80-120		20	
LCS Dup (PG60157-BSD2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.55		0.50	ug/L	20.00		92.8	80-120	1.07	20	
Total Arsenic (As)	21.10		0.50	"	20.00		106	80-120	1.60	20	
Total Beryllium (Be)	17.61		0.50	"	20.00		88.0	80-120	0.848	20	
Total Cadmium (Cd)	18.73		0.20	"	20.00		93.6	80-120	0.798	20	
Total Chromium (Cr)	22.12		0.50	"	20.00		111	80-120	0.226	20	
Total Copper (Cu)	21.55		0.50	"	20.00		108	80-120	0.509	20	
Total Lead (Pb)	17.77		0.20	"	20.00		88.8	80-120	0.451	20	
Total Nickel (Ni)	21.17		0.50	"	20.00		106	80-120	5.38	20	
Total Selenium (Se)	22.82		1.0	"	20.00		114	80-120	10.8	20	
Total Silver (Ag)	18.42		0.20	"	20.00		92.1	80-120	0.649	20	
Total Thallium (Tl)	17.29		0.50	"	20.00		86.4	80-120	0.406	20	
Total Zinc (Zn)	106.9		1.0	"	100.0		107	80-120	0.373	20	

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Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Duplicate (PG60157-DUP2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	0.2740		0.50	ug/L		0.2730			0.366	20	
Total Arsenic (As)	56.29		0.50	"		55.64			1.16	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	ND		0.20	"		ND				20	
Total Chromium (Cr)	0.9200		0.50	"		1.521			49.2	20	QR-04
Total Copper (Cu)	0.4630		0.50	"		0.5970			25.3	20	QR-04
Total Lead (Pb)	0.4650		0.20	"		0.6330			30.6	20	QR-04
Total Nickel (Ni)	ND		0.50	"		ND				20	
Total Selenium (Se)	0.4100		1.0	"		0.2580			45.5	20	QR-04
Total Silver (Ag)	0.02400		0.20	"		0.02700			11.8	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	30.88		1.0	"		31.95			3.41	20	
Matrix Spike (PG60157-MS2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	17.78		0.50	ug/L	20.00	0.2730	87.5	80-120		20	
Total Arsenic (As)	77.64		0.50	"	20.00	55.64	110	80-120		20	
Total Beryllium (Be)	18.67		0.50	"	20.00	ND	93.4	80-120		20	
Total Cadmium (Cd)	17.84		0.20	"	20.00	ND	89.2	80-120		20	
Total Chromium (Cr)	24.21		0.50	"	20.00	1.521	113	80-120		20	
Total Copper (Cu)	21.19		0.50	"	20.00	0.5970	103	80-120		20	
Total Lead (Pb)	18.73		0.20	"	20.00	0.6330	90.5	80-120		20	
Total Nickel (Ni)	20.81		0.50	"	20.00	ND	104	80-120		20	
Total Selenium (Se)	22.33		1.0	"	20.00	0.2580	110	80-120		20	
Total Silver (Ag)	17.12		0.20	"	20.00	0.02700	85.5	80-120		20	
Total Thallium (Tl)	17.72		0.50	"	20.00	ND	88.6	80-120		20	
Total Zinc (Zn)	136.5		1.0	"	100.0	31.95	105	80-120		20	
Matrix Spike Dup (PG60157-MSD2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	18.09		0.50	ug/L	20.00	0.2730	89.1	80-120	1.73	20	
Total Arsenic (As)	77.96		0.50	"	20.00	55.64	112	80-120	0.411	20	
Total Beryllium (Be)	18.71		0.50	"	20.00	ND	93.6	80-120	0.214	20	
Total Cadmium (Cd)	18.21		0.20	"	20.00	ND	91.0	80-120	2.05	20	
Total Chromium (Cr)	24.43		0.50	"	20.00	1.521	115	80-120	0.905	20	
Total Copper (Cu)	21.59		0.50	"	20.00	0.5970	105	80-120	1.87	20	
Total Lead (Pb)	18.67		0.20	"	20.00	0.6330	90.2	80-120	0.321	20	
Total Nickel (Ni)	21.18		0.50	"	20.00	ND	106	80-120	1.76	20	
Total Selenium (Se)	23.12		1.0	"	20.00	0.2580	114	70-130	3.48	20	
Total Silver (Ag)	17.25		0.20	"	20.00	0.02700	86.1	80-120	0.756	20	
Total Thallium (Tl)	17.65		0.50	"	20.00	ND	88.2	80-120	0.396	20	
Total Zinc (Zn)	138.0		1.0	"	100.0	31.95	106	80-120	1.09	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Reference (PG60157-SRM3)					Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	36.26		0.50	ug/L	35.60		102	80-120			
Total Arsenic (As)	87.71		0.50	"	90.80		96.6	80-120			
Total Beryllium (Be)	5.236		0.50	"	6.340		82.6	80-120			
Total Cadmium (Cd)	27.08		0.20	"	28.40		95.4	80-120			
Total Chromium (Cr)	157.5		0.50	"	135.0		117	80-120			
Total Copper (Cu)	1800		0.50	"	1620		111	80-120			
Total Lead (Pb)	81.77		0.20	"	86.10		95.0	80-120			
Total Nickel (Ni)	385.3		0.50	"	354.0		109	80-120			
Total Selenium (Se)	81.51		1.0	"	75.30		108	70-130			
Total Silver (Ag)	239.8		0.20	"	256.0		93.7	80-120			
Total Thallium (Tl)	4.601		0.50	"	5.010		91.8	80-120			
Total Zinc (Zn)	1851		1.0	"	1640		113	80-120			
Reference (PG60157-SRM4)					Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	34.42		0.50	ug/L	35.60		96.7	80-120			
Total Arsenic (As)	94.20		0.50	"	90.80		104	80-120			
Total Beryllium (Be)	5.702		0.50	"	6.340		89.9	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	150.4		0.50	"	135.0		111	80-120			
Total Copper (Cu)	1754		0.50	"	1620		108	80-120			
Total Lead (Pb)	79.07		0.20	"	86.10		91.8	80-120			
Total Nickel (Ni)	390.1		0.50	"	354.0		110	80-120			
Total Selenium (Se)	79.11		1.0	"	75.30		105	70-130			
Total Silver (Ag)	238.8		0.20	"	256.0		93.3	80-120			
Total Thallium (Tl)	4.458		0.50	"	5.010		89.0	80-120			
Total Zinc (Zn)	1826		1.0	"	1640		111	80-120			

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Blank (PH60060-BLK1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60060-BS1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.42		0.50	ug/L	20.00		97.1	85-115		20	
Dissolved Arsenic (As)	19.72		0.50	"	20.00		98.6	85-115		20	
Dissolved Beryllium (Be)	19.01		0.50	"	20.00		95.0	85-115		20	
Dissolved Cadmium (Cd)	19.62		0.20	"	20.00		98.1	85-115		20	
Dissolved Chromium (Cr)	19.21		0.50	"	20.00		96.0	85-115		20	
Dissolved Copper (Cu)	19.31		0.50	"	20.00		96.6	85-115		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00		96.6	85-115		20	
Dissolved Nickel (Ni)	19.24		0.50	"	20.00		96.2	85-115		20	
Dissolved Selenium (Se)	21.67		1.0	"	20.00		108	85-115		20	
Dissolved Silver (Se)	19.58		0.20	"	20.00		97.9	85-115		20	
Dissolved Thallium (Tl)	19.06		0.50	"	20.00		95.3	85-115		20	
Dissolved Zinc (Zn)	99.36		1.0	"	100.0		99.4	85-115		20	
LCS Dup (PH60060-BSD1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.38		0.50	ug/L	20.00		96.9	85-115	0.206	20	
Dissolved Arsenic (As)	20.20		0.50	"	20.00		101	85-115	2.40	20	
Dissolved Beryllium (Be)	19.38		0.50	"	20.00		96.9	85-115	1.93	20	
Dissolved Cadmium (Cd)	19.58		0.20	"	20.00		97.9	85-115	0.204	20	
Dissolved Chromium (Cr)	19.52		0.50	"	20.00		97.6	85-115	1.60	20	
Dissolved Copper (Cu)	19.53		0.50	"	20.00		97.6	85-115	1.13	20	
Dissolved Lead (Pb)	19.20		0.20	"	20.00		96.0	85-115	0.571	20	
Dissolved Nickel (Ni)	19.66		0.50	"	20.00		98.3	85-115	2.16	20	
Dissolved Selenium (Se)	21.95		1.0	"	20.00		110	85-115	1.28	20	
Dissolved Silver (Se)	19.71		0.20	"	20.00		98.6	85-115	0.662	20	
Dissolved Thallium (Tl)	19.05		0.50	"	20.00		95.2	85-115	0.0525	20	
Dissolved Zinc (Zn)	99.40		1.0	"	100.0		99.4	85-115	0.0403	20	

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Work Order #: 6060862
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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Duplicate (PH60060-DUP1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	0.09900		0.50	ug/L		0.1010			2.00	20	
Dissolved Arsenic (As)	1.237		0.50	"		1.293			4.43	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	1.107		0.50	"		1.061			4.24	20	
Dissolved Copper (Cu)	1.907		0.50	"		1.938			1.61	20	
Dissolved Lead (Pb)	0.3830		0.20	"		0.2320			49.1	20	QR-04
Dissolved Nickel (Ni)	3.220		0.50	"		3.009			6.77	20	
Dissolved Selenium (Se)	7.444		1.0	"		7.816			4.88	20	
Dissolved Silver (Se)	0.1010		0.20	"		0.1010			0.00	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	1.435		1.0	"		1.516			5.49	20	
Matrix Spike (PH60060-MS1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	18.12		0.50	ug/L	20.00	0.1010	90.1	75-125		20	
Dissolved Arsenic (As)	24.20		0.50	"	20.00	1.293	115	75-125		20	
Dissolved Beryllium (Be)	17.36		0.50	"	20.00	ND	86.8	75-125		20	
Dissolved Cadmium (Cd)	19.33		0.20	"	20.00	ND	96.6	75-125		20	
Dissolved Chromium (Cr)	22.24		0.50	"	20.00	1.061	106	75-125		20	
Dissolved Copper (Cu)	19.90		0.50	"	20.00	1.938	89.8	75-125		20	
Dissolved Lead (Pb)	20.64		0.20	"	20.00	0.2320	102	75-125		20	
Dissolved Nickel (Ni)	23.74		0.50	"	20.00	3.009	104	75-125		20	
Dissolved Selenium (Se)	40.88		1.0	"	20.00	7.816	165	75-125		20	QM-01
Dissolved Silver (Se)	15.68		0.20	"	20.00	0.1010	77.9	75-125		20	
Dissolved Thallium (Tl)	20.22		0.50	"	20.00	ND	101	75-125		20	
Dissolved Zinc (Zn)	106.9		1.0	"	100.0	1.516	105	75-125		20	
Matrix Spike Dup (PH60060-MSD1)		**Source: 6070008-02**		Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	17.99		0.50	ug/L	20.00	0.1010	89.4	75-125	0.720	20	
Dissolved Arsenic (As)	24.55		0.50	"	20.00	1.293	116	75-125	1.44	20	
Dissolved Beryllium (Be)	16.30		0.50	"	20.00	ND	81.5	75-125	6.30	20	
Dissolved Cadmium (Cd)	19.17		0.20	"	20.00	ND	95.8	75-125	0.831	20	
Dissolved Chromium (Cr)	22.86		0.50	"	20.00	1.061	109	75-125	2.75	20	
Dissolved Copper (Cu)	20.71		0.50	"	20.00	1.938	93.9	75-125	3.99	20	
Dissolved Lead (Pb)	20.59		0.20	"	20.00	0.2320	102	75-125	0.243	20	
Dissolved Nickel (Ni)	24.47		0.50	"	20.00	3.009	107	75-125	3.03	20	
Dissolved Selenium (Se)	43.60		1.0	"	20.00	7.816	179	75-125	6.44	20	QM-01
Dissolved Silver (Se)	15.41		0.20	"	20.00	0.1010	76.5	75-125	1.74	20	
Dissolved Thallium (Tl)	20.26		0.50	"	20.00	ND	101	75-125	0.198	20	
Dissolved Zinc (Zn)	111.0		1.0	"	100.0	1.516	109	75-125	3.76	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Reference (PH60060-SRM1)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	34.03		0.50	ug/L	35.60		95.6	80-120			
Dissolved Arsenic (As)	82.16		0.50	"	90.80		90.5	80-120			
Dissolved Beryllium (Be)	6.196		0.50	"	6.340		97.7	80-120			
Dissolved Cadmium (Cd)	26.49		0.20	"	28.40		93.3	80-120			
Dissolved Chromium (Cr)	130.6		0.50	"	135.0		96.7	80-120			
Dissolved Copper (Cu)	1563		0.50	"	1620		96.5	80-120			
Dissolved Lead (Pb)	85.02		0.20	"	86.10		98.7	80-120			
Dissolved Nickel (Ni)	340.9		0.50	"	354.0		96.3	80-120			
Dissolved Selenium (Se)	86.03		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	236.7		0.20	"	256.0		92.5	80-120			
Dissolved Thallium (Tl)	4.834		0.50	"	5.010		96.5	80-120			
Dissolved Zinc (Zn)	1652		1.0	"	1640		101	80-120			
Reference (PH60060-SRM2)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	33.42		0.50	ug/L	35.60		93.9	80-120			
Dissolved Arsenic (As)	87.81		0.50	"	90.80		96.7	80-120			
Dissolved Beryllium (Be)	6.129		0.50	"	6.340		96.7	80-120			
Dissolved Cadmium (Cd)	26.03		0.20	"	28.40		91.7	80-120			
Dissolved Chromium (Cr)	131.9		0.50	"	135.0		97.7	80-120			
Dissolved Copper (Cu)	1575		0.50	"	1620		97.2	80-120			
Dissolved Lead (Pb)	83.36		0.20	"	86.10		96.8	80-120			
Dissolved Nickel (Ni)	345.8		0.50	"	354.0		97.7	80-120			
Dissolved Selenium (Se)	75.08		1.0	"	75.30		99.7	80-120			
Dissolved Silver (Se)	244.0		0.20	"	256.0		95.3	80-120			
Dissolved Thallium (Tl)	4.810		0.50	"	5.010		96.0	80-120			
Dissolved Zinc (Zn)	1647		1.0	"	1640		100	80-120			

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60301 - EPA 245.7											
Blank (PH60301-BLK1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.00515		0.0050	ug/L							
Duplicate (PH60301-DUP1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.0380		0.010	ug/L		0.0318			17.8	25	
Matrix Spike (PH60301-MS1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.139		0.010	ug/L	0.100	0.0318	107	75-125		20	
Matrix Spike Dup (PH60301-MSD1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.138		0.010	ug/L	0.100	0.0318	106	75-125	0.722	20	
Reference (PH60301-SRM1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	10.9		1.0	ug/L	11.5		94.8	80-120			
Batch PH60302 - EPA 245.7											
Blank (PH60302-BLK1)					Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60302-DUP1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.0735		0.050	ug/L		0.0653			11.8	25	
Matrix Spike (PH60302-MS1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.572		0.050	ug/L	0.500	0.0653	101	75-125		20	
Matrix Spike Dup (PH60302-MSD1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.569		0.050	ug/L	0.500	0.0653	101	75-125	0.526	20	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60302 - EPA 245.7											
Reference (PH60302-SRM1)				Prepared & Analyzed: 04-Aug-06							
Total Mercury (Hg)	11.6		1.0	ug/L	11.5		101	80-120			

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060862
Reporting Date: October 19, 2006

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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381

Fed Ex 2.5°C

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 Attn: Mike Galloway (408) 724-5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

~~6060860~~
6060862
(LN)

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1010 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111 B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), zinc (SM18 3111 B), ~~and total CN (4500CN C,E) Detection limit 10 µg/L~~.

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
MOA06MET004	Influent	1	6/28-29/06	0900-0900	Intact	6060862-01
MOA06MET005	Effluent	1	6/28-29/06	0900-0900	↓	-02

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]	6/29/06 0935	[signature]	[signature]	6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/29/06 1105	FED Ex	[signature]	6/30/06 1000
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmDRY06COC.wpd

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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6070008

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 7/1/2006 10:00:00 AM.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Mike Galloway

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6070008-01	MOA06MET006	Influent	Water	06/30/06 09:10	07/01/06 10:00
6070008-02	MOA06MET007	Effluent	Water	06/30/06 09:10	07/01/06 10:00

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Date Received: July 1, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET006
Matrix: Water
Laboratory #: 6070008-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	0.79	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	2.1	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	3.4	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	0.22	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.032	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	3.4	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	7.5	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	2.9	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.80	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	3.2	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.47	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	15	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	93	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	6.6	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.22	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	11	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	1.3	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	3.6	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	200	ug/L	1.0	1	EPA 200.8	07/17/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Date Received: July 1, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET007
Matrix: Water
Laboratory #: 6070008-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Arsenic (As)	1.3	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Chromium (Cr)	1.1	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Copper (Cu)	1.9	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Lead (Pb)	0.23	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Mercury (Hg)	0.035	ug/L	0.010	2	EPA 245.7	08/09/06	
Dissolved Nickel (Ni)	3.0	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Selenium (Se)	7.8	ug/L	1.0	1	EPA 200.8	07/28/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	07/28/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/28/06	
Dissolved Zinc (Zn)	1.5	ug/L	1.0	1	EPA 200.8	07/28/06	
Total Antimony (Sb)	0.64	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Arsenic (As)	3.0	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Cadmium (Cd)	0.37	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Chromium (Cr)	6.6	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Copper (Cu)	55	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Lead (Pb)	4.1	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Mercury (Hg)	0.090	ug/L	0.010	2	EPA 245.7	08/04/06	
Total Nickel (Ni)	5.7	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Selenium (Se)	1.5	ug/L	1.0	1	EPA 200.8	07/17/06	
Total Silver (Ag)	2.9	ug/L	0.20	1	EPA 200.8	07/17/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	07/17/06	
Total Zinc (Zn)	110	ug/L	1.0	1	EPA 200.8	07/17/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control
Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Blank (PG60157-BLK2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	0.3150		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
LCS (PG60157-BS2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.75		0.50	ug/L	20.00		93.8	80-120		20	
Total Arsenic (As)	21.44		0.50	"	20.00		107	80-120		20	
Total Beryllium (Be)	17.76		0.50	"	20.00		88.8	80-120		20	
Total Cadmium (Cd)	18.88		0.20	"	20.00		94.4	80-120		20	
Total Chromium (Cr)	22.17		0.50	"	20.00		111	80-120		20	
Total Copper (Cu)	21.66		0.50	"	20.00		108	80-120		20	
Total Lead (Pb)	17.69		0.20	"	20.00		88.4	80-120		20	
Total Nickel (Ni)	22.34		0.50	"	20.00		112	80-120		20	
Total Selenium (Se)	20.48		1.0	"	20.00		102	80-120		20	
Total Silver (Ag)	18.54		0.20	"	20.00		92.7	80-120		20	
Total Thallium (Tl)	17.22		0.50	"	20.00		86.1	80-120		20	
Total Zinc (Zn)	107.3		1.0	"	100.0		107	80-120		20	
LCS Dup (PG60157-BSD2)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	18.55		0.50	ug/L	20.00		92.8	80-120	1.07	20	
Total Arsenic (As)	21.10		0.50	"	20.00		106	80-120	1.60	20	
Total Beryllium (Be)	17.61		0.50	"	20.00		88.0	80-120	0.848	20	
Total Cadmium (Cd)	18.73		0.20	"	20.00		93.6	80-120	0.798	20	
Total Chromium (Cr)	22.12		0.50	"	20.00		111	80-120	0.226	20	
Total Copper (Cu)	21.55		0.50	"	20.00		108	80-120	0.509	20	
Total Lead (Pb)	17.77		0.20	"	20.00		88.8	80-120	0.451	20	
Total Nickel (Ni)	21.17		0.50	"	20.00		106	80-120	5.38	20	
Total Selenium (Se)	22.82		1.0	"	20.00		114	80-120	10.8	20	
Total Silver (Ag)	18.42		0.20	"	20.00		92.1	80-120	0.649	20	
Total Thallium (Tl)	17.29		0.50	"	20.00		86.4	80-120	0.406	20	
Total Zinc (Zn)	106.9		1.0	"	100.0		107	80-120	0.373	20	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Duplicate (PG60157-DUP2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	0.2740		0.50	ug/L		0.2730			0.366	20	
Total Arsenic (As)	56.29		0.50	"		55.64			1.16	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	ND		0.20	"		ND				20	
Total Chromium (Cr)	0.9200		0.50	"		1.521			49.2	20	QR-04
Total Copper (Cu)	0.4630		0.50	"		0.5970			25.3	20	QR-04
Total Lead (Pb)	0.4650		0.20	"		0.6330			30.6	20	QR-04
Total Nickel (Ni)	ND		0.50	"		ND				20	
Total Selenium (Se)	0.4100		1.0	"		0.2580			45.5	20	QR-04
Total Silver (Ag)	0.02400		0.20	"		0.02700			11.8	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	30.88		1.0	"		31.95			3.41	20	
Matrix Spike (PG60157-MS2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	17.78		0.50	ug/L	20.00	0.2730	87.5	80-120		20	
Total Arsenic (As)	77.64		0.50	"	20.00	55.64	110	80-120		20	
Total Beryllium (Be)	18.67		0.50	"	20.00	ND	93.4	80-120		20	
Total Cadmium (Cd)	17.84		0.20	"	20.00	ND	89.2	80-120		20	
Total Chromium (Cr)	24.21		0.50	"	20.00	1.521	113	80-120		20	
Total Copper (Cu)	21.19		0.50	"	20.00	0.5970	103	80-120		20	
Total Lead (Pb)	18.73		0.20	"	20.00	0.6330	90.5	80-120		20	
Total Nickel (Ni)	20.81		0.50	"	20.00	ND	104	80-120		20	
Total Selenium (Se)	22.33		1.0	"	20.00	0.2580	110	80-120		20	
Total Silver (Ag)	17.12		0.20	"	20.00	0.02700	85.5	80-120		20	
Total Thallium (Tl)	17.72		0.50	"	20.00	ND	88.6	80-120		20	
Total Zinc (Zn)	136.5		1.0	"	100.0	31.95	105	80-120		20	
Matrix Spike Dup (PG60157-MSD2)		**Source: 6070148-01**			Prepared & Analyzed: 17-Jul-06						
Total Antimony (Sb)	18.09		0.50	ug/L	20.00	0.2730	89.1	80-120	1.73	20	
Total Arsenic (As)	77.96		0.50	"	20.00	55.64	112	80-120	0.411	20	
Total Beryllium (Be)	18.71		0.50	"	20.00	ND	93.6	80-120	0.214	20	
Total Cadmium (Cd)	18.21		0.20	"	20.00	ND	91.0	80-120	2.05	20	
Total Chromium (Cr)	24.43		0.50	"	20.00	1.521	115	80-120	0.905	20	
Total Copper (Cu)	21.59		0.50	"	20.00	0.5970	105	80-120	1.87	20	
Total Lead (Pb)	18.67		0.20	"	20.00	0.6330	90.2	80-120	0.321	20	
Total Nickel (Ni)	21.18		0.50	"	20.00	ND	106	80-120	1.76	20	
Total Selenium (Se)	23.12		1.0	"	20.00	0.2580	114	70-130	3.48	20	
Total Silver (Ag)	17.25		0.20	"	20.00	0.02700	86.1	80-120	0.756	20	
Total Thallium (Tl)	17.65		0.50	"	20.00	ND	88.2	80-120	0.396	20	
Total Zinc (Zn)	138.0		1.0	"	100.0	31.95	106	80-120	1.09	20	

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PG60157 - EPA 3005A											
Reference (PG60157-SRM3)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	36.26		0.50	ug/L	35.60		102	80-120			
Total Arsenic (As)	87.71		0.50	"	90.80		96.6	80-120			
Total Beryllium (Be)	5.236		0.50	"	6.340		82.6	80-120			
Total Cadmium (Cd)	27.08		0.20	"	28.40		95.4	80-120			
Total Chromium (Cr)	157.5		0.50	"	135.0		117	80-120			
Total Copper (Cu)	1800		0.50	"	1620		111	80-120			
Total Lead (Pb)	81.77		0.20	"	86.10		95.0	80-120			
Total Nickel (Ni)	385.3		0.50	"	354.0		109	80-120			
Total Selenium (Se)	81.51		1.0	"	75.30		108	70-130			
Total Silver (Ag)	239.8		0.20	"	256.0		93.7	80-120			
Total Thallium (Tl)	4.601		0.50	"	5.010		91.8	80-120			
Total Zinc (Zn)	1851		1.0	"	1640		113	80-120			
Reference (PG60157-SRM4)				Prepared & Analyzed: 17-Jul-06							
Total Antimony (Sb)	34.42		0.50	ug/L	35.60		96.7	80-120			
Total Arsenic (As)	94.20		0.50	"	90.80		104	80-120			
Total Beryllium (Be)	5.702		0.50	"	6.340		89.9	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	150.4		0.50	"	135.0		111	80-120			
Total Copper (Cu)	1754		0.50	"	1620		108	80-120			
Total Lead (Pb)	79.07		0.20	"	86.10		91.8	80-120			
Total Nickel (Ni)	390.1		0.50	"	354.0		110	80-120			
Total Selenium (Se)	79.11		1.0	"	75.30		105	70-130			
Total Silver (Ag)	238.8		0.20	"	256.0		93.3	80-120			
Total Thallium (Tl)	4.458		0.50	"	5.010		89.0	80-120			
Total Zinc (Zn)	1826		1.0	"	1640		111	80-120			

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Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Blank (PH60060-BLK1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60060-BS1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.42		0.50	ug/L	20.00		97.1	85-115		20	
Dissolved Arsenic (As)	19.72		0.50	"	20.00		98.6	85-115		20	
Dissolved Beryllium (Be)	19.01		0.50	"	20.00		95.0	85-115		20	
Dissolved Cadmium (Cd)	19.62		0.20	"	20.00		98.1	85-115		20	
Dissolved Chromium (Cr)	19.21		0.50	"	20.00		96.0	85-115		20	
Dissolved Copper (Cu)	19.31		0.50	"	20.00		96.6	85-115		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00		96.6	85-115		20	
Dissolved Nickel (Ni)	19.24		0.50	"	20.00		96.2	85-115		20	
Dissolved Selenium (Se)	21.67		1.0	"	20.00		108	85-115		20	
Dissolved Silver (Se)	19.58		0.20	"	20.00		97.9	85-115		20	
Dissolved Thallium (Tl)	19.06		0.50	"	20.00		95.3	85-115		20	
Dissolved Zinc (Zn)	99.36		1.0	"	100.0		99.4	85-115		20	
LCS Dup (PH60060-BSD1)				Prepared & Analyzed: 28-Jul-06							
Dissolved Antimony (Sb)	19.38		0.50	ug/L	20.00		96.9	85-115	0.206	20	
Dissolved Arsenic (As)	20.20		0.50	"	20.00		101	85-115	2.40	20	
Dissolved Beryllium (Be)	19.38		0.50	"	20.00		96.9	85-115	1.93	20	
Dissolved Cadmium (Cd)	19.58		0.20	"	20.00		97.9	85-115	0.204	20	
Dissolved Chromium (Cr)	19.52		0.50	"	20.00		97.6	85-115	1.60	20	
Dissolved Copper (Cu)	19.53		0.50	"	20.00		97.6	85-115	1.13	20	
Dissolved Lead (Pb)	19.20		0.20	"	20.00		96.0	85-115	0.571	20	
Dissolved Nickel (Ni)	19.66		0.50	"	20.00		98.3	85-115	2.16	20	
Dissolved Selenium (Se)	21.95		1.0	"	20.00		110	85-115	1.28	20	
Dissolved Silver (Se)	19.71		0.20	"	20.00		98.6	85-115	0.662	20	
Dissolved Thallium (Tl)	19.05		0.50	"	20.00		95.2	85-115	0.0525	20	
Dissolved Zinc (Zn)	99.40		1.0	"	100.0		99.4	85-115	0.0403	20	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Duplicate (PH60060-DUP1)		**Source: 6070008-02**			Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	ND		0.50	ug/L		0.1010				20	
Dissolved Arsenic (As)	1.237		0.50	"		1.293			4.43	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	1.107		0.50	"		1.061			4.24	20	
Dissolved Copper (Cu)	1.907		0.50	"		1.938			1.61	20	
Dissolved Lead (Pb)	0.3830		0.20	"		0.2320			49.1	20	QR-04
Dissolved Nickel (Ni)	3.220		0.50	"		3.009			6.77	20	
Dissolved Selenium (Se)	7.444		1.0	"		7.816			4.88	20	
Dissolved Silver (Se)	0.1010		0.20	"		0.1010			0.00	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	1.435		1.0	"		1.516			5.49	20	
Matrix Spike (PH60060-MS1)		**Source: 6070008-02**			Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	18.12		0.50	ug/L	20.00	0.1010	90.1	75-125		20	
Dissolved Arsenic (As)	24.20		0.50	"	20.00	1.293	115	75-125		20	
Dissolved Beryllium (Be)	17.36		0.50	"	20.00	ND	86.8	75-125		20	
Dissolved Cadmium (Cd)	19.33		0.20	"	20.00	ND	96.6	75-125		20	
Dissolved Chromium (Cr)	22.24		0.50	"	20.00	1.061	106	75-125		20	
Dissolved Copper (Cu)	19.90		0.50	"	20.00	1.938	89.8	75-125		20	
Dissolved Lead (Pb)	20.64		0.20	"	20.00	0.2320	102	75-125		20	
Dissolved Nickel (Ni)	23.74		0.50	"	20.00	3.009	104	75-125		20	
Dissolved Selenium (Se)	40.88		1.0	"	20.00	7.816	165	75-125		20	QM-01
Dissolved Silver (Se)	15.68		0.20	"	20.00	0.1010	77.9	75-125		20	
Dissolved Thallium (Tl)	20.22		0.50	"	20.00	ND	101	75-125		20	
Dissolved Zinc (Zn)	106.9		1.0	"	100.0	1.516	105	75-125		20	
Matrix Spike Dup (PH60060-MSD1)		**Source: 6070008-02**			Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	17.99		0.50	ug/L	20.00	0.1010	89.4	75-125	0.720	20	
Dissolved Arsenic (As)	24.55		0.50	"	20.00	1.293	116	75-125	1.44	20	
Dissolved Beryllium (Be)	16.30		0.50	"	20.00	ND	81.5	75-125	6.30	20	
Dissolved Cadmium (Cd)	19.17		0.20	"	20.00	ND	95.8	75-125	0.831	20	
Dissolved Chromium (Cr)	22.86		0.50	"	20.00	1.061	109	75-125	2.75	20	
Dissolved Copper (Cu)	20.71		0.50	"	20.00	1.938	93.9	75-125	3.99	20	
Dissolved Lead (Pb)	20.59		0.20	"	20.00	0.2320	102	75-125	0.243	20	
Dissolved Nickel (Ni)	24.47		0.50	"	20.00	3.009	107	75-125	3.03	20	
Dissolved Selenium (Se)	43.60		1.0	"	20.00	7.816	179	75-125	6.44	20	QM-01
Dissolved Silver (Se)	15.41		0.20	"	20.00	0.1010	76.5	75-125	1.74	20	
Dissolved Thallium (Tl)	20.26		0.50	"	20.00	ND	101	75-125	0.198	20	
Dissolved Zinc (Zn)	111.0		1.0	"	100.0	1.516	109	75-125	3.76	20	

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Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60060 - Diss Metals											
Reference (PH60060-SRM1)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	34.03		0.50	ug/L	35.60		95.6	80-120			
Dissolved Arsenic (As)	82.16		0.50	"	90.80		90.5	80-120			
Dissolved Beryllium (Be)	6.196		0.50	"	6.340		97.7	80-120			
Dissolved Cadmium (Cd)	26.49		0.20	"	28.40		93.3	80-120			
Dissolved Chromium (Cr)	130.6		0.50	"	135.0		96.7	80-120			
Dissolved Copper (Cu)	1563		0.50	"	1620		96.5	80-120			
Dissolved Lead (Pb)	85.02		0.20	"	86.10		98.7	80-120			
Dissolved Nickel (Ni)	340.9		0.50	"	354.0		96.3	80-120			
Dissolved Selenium (Se)	86.03		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	236.7		0.20	"	256.0		92.5	80-120			
Dissolved Thallium (Tl)	4.834		0.50	"	5.010		96.5	80-120			
Dissolved Zinc (Zn)	1652		1.0	"	1640		101	80-120			
Reference (PH60060-SRM2)					Prepared & Analyzed: 28-Jul-06						
Dissolved Antimony (Sb)	33.42		0.50	ug/L	35.60		93.9	80-120			
Dissolved Arsenic (As)	87.81		0.50	"	90.80		96.7	80-120			
Dissolved Beryllium (Be)	6.129		0.50	"	6.340		96.7	80-120			
Dissolved Cadmium (Cd)	26.03		0.20	"	28.40		91.7	80-120			
Dissolved Chromium (Cr)	131.9		0.50	"	135.0		97.7	80-120			
Dissolved Copper (Cu)	1575		0.50	"	1620		97.2	80-120			
Dissolved Lead (Pb)	83.36		0.20	"	86.10		96.8	80-120			
Dissolved Nickel (Ni)	345.8		0.50	"	354.0		97.7	80-120			
Dissolved Selenium (Se)	75.08		1.0	"	75.30		99.7	80-120			
Dissolved Silver (Se)	244.0		0.20	"	256.0		95.3	80-120			
Dissolved Thallium (Tl)	4.810		0.50	"	5.010		96.0	80-120			
Dissolved Zinc (Zn)	1647		1.0	"	1640		100	80-120			

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Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60301 - EPA 245.7											
Blank (PH60301-BLK1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.00515		0.0050	ug/L							
Duplicate (PH60301-DUP1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.0380		0.010	ug/L		0.0318			17.8	25	
Matrix Spike (PH60301-MS1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.139		0.010	ug/L	0.100	0.0318	107	75-125		20	
Matrix Spike Dup (PH60301-MSD1)		**Source: 6070008-01**			Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	0.138		0.010	ug/L	0.100	0.0318	106	75-125	0.722	20	
Reference (PH60301-SRM1)					Prepared & Analyzed: 09-Aug-06						
Dissolved Mercury (Hg)	10.9		1.0	ug/L	11.5		94.8	80-120			
Batch PH60302 - EPA 245.7											
Blank (PH60302-BLK1)					Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60302-DUP1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.0735		0.050	ug/L		0.0653			11.8	25	
Matrix Spike (PH60302-MS1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.572		0.050	ug/L	0.500	0.0653	101	75-125		20	
Matrix Spike Dup (PH60302-MSD1)		**Source: 6080081-04**			Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	0.569		0.050	ug/L	0.500	0.0653	101	75-125	0.526	20	

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Work Order #: 6070008
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60302 - EPA 245.7											
Reference (PH60302-SRM1)					Prepared & Analyzed: 04-Aug-06						
Total Mercury (Hg)	11.6		1.0	ug/L	11.5		101	80-120			

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

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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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381 6060903 MC 6070008

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 Attn: Mike Galloway (408) 724-5422	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111 B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), zinc (SM18 3111 B), ~~and total CN (4500CN C,E). Detection limit 10 µg/L~~.

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
MOA06MET006	Influent	1	6/29-30/06	0910-0910	Intact	6070008-01
MOA06MET007	Effluent	1	6/29-30/06	0910-0910	↓	↓ -02

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
	6/30/06 0955	Hand		6/30/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/30/06 1130	FED EX		7-1-06
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A3 Priority Pollutants, Dioxin, Pesticides, and Hydrocarbons

Severn Trent Laboratories, Inc.

JUNE SAMPLING, PRIORITY POLLUTANTS, DIOXIN, PESTICIDES, AND HYDROCARBONS, STL SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06VOP001 - 008	INFLUENT	SAMPLE (COMPOSITE)
MOA06VOP009 - 016	EFFLUENT	SAMPLE (COMPOSITE)
MOA06VOP017	C-STATION	FIELD BLANK
MOA06VOP018	TRIP BLANK	TRIP BLANK
MOA06VOP019	SLUDGE	SAMPLE
MOA06DXN001	INFLUENT	SAMPLE
MOA06DXN002	EFFLUENT	SAMPLE
MOA06DXN003	SLUDGE	SAMPLE
MOA06SVL001	INFLUENT	SAMPLE
MOA06SVL002	EFFLUENT	SAMPLE
MOA06SVL003	SLUDGE	SAMPLE
MOA06PES001	INFLUENT-1	SAMPLE
MOA06PES002	INFLUENT-2	SAMPLE
MOA06PES003	EFFLUENT	FIELD/LAB DUPLICATE
MOA06PES004	SLUDGE	SAMPLE
MOA06PST001	INFLUENT-1	SAMPLE
MOA06PST002	INFLUENT-2	SAMPLE
MOA06PST003	EFFLUENT	FIELD/LAB DUPLICATE

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

KLI Project # 516.01

Lot D6F290294

Tim Mayers

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

SEVERN TRENT LABORATORIES, INC. / STL DENVER

Michael P. Phillips
Project Manager

July 27, 2006

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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.*	123

- **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
D6F290294

The following report contains the analytical results for eighteen samples submitted to STL Denver by Kinnetic Laboratories. The samples were received June 29, 2006, according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each data sheet to assist in the interpretation of the results. In some cases, due to interferences or analytes present above the linear calibration curve, samples must be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits are adjusted relative to the dilution required. Dilutions made for reasons other than the presence of target compound(s) are addressed in the Supplemental Information Section.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the methods summary page in accordance with the method indicated. A summary of QC data for this analysis is included near the end of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory in good condition at cooler temperatures of 3.5°C and 3.8°C.

No anomalies were observed.

Volatile Organic Compounds, EPA Method 624

Bromodichloromethane, Chloroform, and Methylene Chloride were detected in the Trip Blank. The concentrations of Chloroform and Methylene Chloride were above the reporting limits.

The MS/MSD performed using a sample from another client and/or lot for QC batch 6188464 exhibited a MSD percent recovery below the QC control limits for Vinyl Chloride. In addition, the surrogate recovery for 1,2-Dichloroethane-d4 in the MS was above the upper control limit. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The laboratory noted that matrix interference was obvious.

The MS/MSD performed using a sample from another client and/or lot for QC batch 6193438 exhibited MS and/or MSD percent recoveries outside the QC control limits for 1,2-Dichloroethane and 2-Chloroethyl vinyl ether. In addition, the surrogate recovery for 1,2-Dichloroethane-d4 in the MS was above the upper control limit. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. The laboratory noted that matrix interference was obvious.

No other anomalies were observed.

Volatile Organic Compounds, EPA Method 8260B

A low level of 1,2-Dichlorobenzene was present in the Method Blank associated with solid QC batch 6184164. Corrective action is deemed unnecessary, as the concentration in the Method Blank was not present at a level greater than the reporting limit.

No other anomalies were observed.

Semivolatile Organic Compounds, EPA Method 625

The LCS recovery for 2,4-Dimethylphenol in QC batch 6181196 was below the lower control limit and the relative percent difference for this compound was above the upper control limit.

The method required MS/MSD could not be performed for Method 625 due to insufficient sample volume submitted.

The surrogate recoveries for Terphenyl-d14 in samples MOA06SVL001 INFLUENT and MOA06SVL002 EFFLUENT were below the lower control limit. There was obvious matrix interference visible in the sample chromatograms.

No other anomalies were observed.

Semivolatile Organic Compounds, EPA Method 8270C

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to sample matrix, the extract for sample MOA06SVL003 SLUDGE could not be concentrated below 2 mL and the sample required further dilution prior to analysis. The reporting limits have been adjusted relative to the dilution required.

No other anomalies were observed.

Organochlorine Pesticides/PCBs, EPA Method 608

The method required MS/MSD could not be performed for Method 608 due to insufficient sample volume submitted.

The RPD between the primary and confirmation columns exceeded 40% for Aldrin in sample MOA06PES001 INFLUENT-1, gamma-BHC in sample MOA06PES002 INFLUENT-2, and 4,4'-DDE, Dieldrin, and Endrin Ketone in sample MOA06PES003 EFFLUENT. The lower of the two values have been reported in each case, as matrix interference is evident. The results in the analytical report have been flagged with "COL".

The surrogate recoveries for Decachlorobiphenyl in samples MOA06PES001 INFLUENT-1 and MOA06PES002 INFLUENT-2 were below the lower control limit. There was obvious matrix interference visible in the sample chromatograms.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6181197 exhibited %Difference (%D) values out of range for 4,4'-DDT and 4,4'-DDD. The overall mean %D is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

Organochlorine Pesticides/PCBs, EPA Method 8081A/8082

The Method 8082 LCS recovery for Aroclor 1016 in QC batch 6186177 was above the upper control limit. However, because the data are considered to be biased high and no Aroclors were detected in the sample, no corrective is necessary.

The method required MS/MSD could not be performed for Method 8081A due to insufficient sample volume submitted. The recoveries for the spiked compounds and the surrogates in the MS/MSD associated with batch 6186177 for Method 8082 could not be determined because of the dilution required due to matrix interferences.

For Method 8081A, the RPD between the primary and confirmation columns exceeded 40% for gamma-BHC, gamma-Chlordane, 4,4'-DDE, and Dieldrin in sample MOA06PES004 SLUDGE. The lower of the two values have been reported in each case, as matrix interference is evident. The results in the analytical report have been flagged with "COL".

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to matrix interferences, sample MOA06PES004 SLUDGE required dilution prior to analysis by Method 8081A. The reporting limits have been adjusted relative to the dilution required. The surrogate recoveries also could not be determined due to the required dilution.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6186191 for Method 8081A exhibited %Difference (%D) values out of range for Endosulfan I, Endosulfan II, and Heptachlor. The overall mean %D is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6186177 exhibited %Difference (%D) values out of range for the surrogate Decachlorobiphenyl. The overall mean %D is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

Organophosphorus Pesticides, EPA Method 614

The method required MS/MSD could not be performed for Method 614 due to insufficient sample volume submitted.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6184119 exhibited %Difference (%D) values out of range for several compounds. The overall mean %D is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

Organophosphorus Pesticides, EPA Method 8141A

The LCS recoveries for Phorate and the surrogate Chlormefos in QC batch 6180531 were below the lower control limits. However, because all of the other QC results were in control and Phorate is not a target analyte for this project, no corrective action was necessary.

The method required MS/MSD could not be performed for Method 8141A due to insufficient sample volume submitted.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6180531 exhibited %Difference (%D) values out of range for several compounds. The overall mean %D is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

2,3,7,8-TCDD, EPA Method 8280A

The analyses for 2,3,7,8-TCDD by Method 8280A were performed at STL's Sacramento Laboratory.

The method required MS/MSD could not be performed for Method 8280A due to insufficient sample volume submitted.

No other anomalies were observed.

Percent Moisture, ASTM D2216-90 and MCAWW 160.3 MOD

The relative percent difference for one of the sample duplicates performed using a sample from another client and/or lot was above the control limit, while a second sample duplicate using a different sample from another client and/or lot was in control.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D6F290294

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06VOP001-008 INF CMP #1-8 06/28/06 05:50 001				
Xylenes (total)	8.3 J	10	ug/L	CFR136A 624
Benzene	0.50 J	5.0	ug/L	CFR136A 624
Chloroform	2.9 J	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	1.0 J	5.0	ug/L	CFR136A 624
Ethylbenzene	1.5 J	5.0	ug/L	CFR136A 624
Methylene chloride	3.5 J	5.0	ug/L	CFR136A 624
Tetrachloroethene	4.2 J	5.0	ug/L	CFR136A 624
Toluene	12	5.0	ug/L	CFR136A 624
MOA06VOP009-016 EFF CMP #1-8 06/28/06 06:00 002				
Xylenes (total)	6.7 J	10	ug/L	CFR136A 624
Chloroform	3.6 J	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	1.0 J	5.0	ug/L	CFR136A 624
Methylene chloride	4.5 J	5.0	ug/L	CFR136A 624
Tetrachloroethene	4.0 J	5.0	ug/L	CFR136A 624
Toluene	8.7	5.0	ug/L	CFR136A 624
MOA06VOP017 C-STATION 06/27/06 07:00 003				
Methylene chloride	4.0 J	5.0	ug/L	CFR136A 624
MOA06VOP018 TRIP BLANK 06/27/06 004				
Bromodichloromethane	3.8 J	5.0	ug/L	CFR136A 624
Chloroform	46	5.0	ug/L	CFR136A 624
Methylene chloride	5.5	5.0	ug/L	CFR136A 624
MOA06DXN003 SLUDGE 06/28/06 06:00 007				
Percent Moisture	69	0.10	%	ASTM D 2216-90
MOA06PES004 SLUDGE 06/28/06 06:00 008				
Ethyl parathion	51 J	54	ug/kg	SW846 8141A
Azinphos-methyl	3100	2000	ug/kg	SW846 8141A
Aldrin	79	51	ug/kg	SW846 8081A
gamma-BHC (Lindane)	18 J,COL	51	ug/kg	SW846 8081A
gamma-Chlordane	42 J,COL	51	ug/kg	SW846 8081A
4,4'-DDE	19 J,COL	51	ug/kg	SW846 8081A
Dieldrin	8.9 J,COL	51	ug/kg	SW846 8081A
Methoxychlor	72 J	100	ug/kg	SW846 8081A
Percent Moisture	67	0.10	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D6F290294

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06SVL003 SLUDGE 06/28/06 06:00 009				
bis(2-Ethylhexyl) phthalate	47000	42000	ug/kg	SW846 8270C
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD
MOA06VOP019 SLUDGE 06/28/06 06:00 010				
Benzene	5.0 J	16	ug/kg	SW846 8260B
Chloroform	3.8 J	33	ug/kg	SW846 8260B
1,4-Dichlorobenzene	53	16	ug/kg	SW846 8260B
Ethylbenzene	30	16	ug/kg	SW846 8260B
Tetrachloroethene	100	16	ug/kg	SW846 8260B
Toluene	290	16	ug/kg	SW846 8260B
Trichloroethene	2.3 J	16	ug/kg	SW846 8260B
Xylenes (total)	180	16	ug/kg	SW846 8260B
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD
MOA06SVL001 INFLUENT 06/28/06 08:00 011				
Diethyl phthalate	7.9 J	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	21	10	ug/L	CFR136A 625
Phenol	27	10	ug/L	CFR136A 625
MOA06SVL002 EFFLUENT 06/28/06 08:00 012				
Diethyl phthalate	7.7 J	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	18	10	ug/L	CFR136A 625
Phenol	18	10	ug/L	CFR136A 625
MOA06PES001 INFLUENT-1 06/28/06 08:00 016				
Aldrin	0.021	0.050	ug/L	CFR136A 608
	Qualifiers: J,COL			
gamma-BHC (Lindane)	0.052	0.050	ug/L	CFR136A 608
MOA06PES002 INFLUENT-2 06/28/06 08:00 017				
Aldrin	0.020 J	0.050	ug/L	CFR136A 608
gamma-BHC (Lindane)	0.012	0.050	ug/L	CFR136A 608
	Qualifiers: J,COL			

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D6F290294

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06PES003 EFFLUENT 06/28/06 08:00 018				
4,4'-DDE	0.0080	0.10	ug/L	CFR136A 608
	Qualifiers: J,COL			
Dieldrin	0.010	0.10	ug/L	CFR136A 608
	Qualifiers: J,COL			
Endrin ketone	0.012	0.10	ug/L	CFR136A 608
	Qualifiers: J,COL			

METHODS SUMMARY

D6F290294

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Base/Neutrals and Acids	CFR136A 625	CFR136A 625
Dioxins/Furans, HRGC/LRMS (8280A)	SW846 8280A	SW846 8280A
Method for Determination of Water Content of Soil	ASTM D 2216-90	ASTM D2216-90
Organochlorine Pesticides	SW846 8081A	SW846 3550
Organochlorine Pesticides and PCBs	CFR136A 608	CFR136A 608
Organophosphorous Compounds by GC	SW846 8141A	
Organophosphorus Pests. by GC	MCAWW 614	MCAWW 614
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Purgeables	CFR136A 624	CFR136A 624
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

ASTM — Annual Book Of ASTM Standards.

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

MCAWW — "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 — "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D6F290294

ANALYTICAL METHOD	ANALYST	ANALYST ID
ASTM D 2216-90	David Romero	9893
CFR136A 608	Carrie Lahr	008835
CFR136A 608	Teresa L. Williams	002510
CFR136A 624	Daniel Kiekel	011370
CFR136A 625	Tamera Ashcraft	009005
MCAWW 160.3 MOD	David Wells	5099
MCAWW 614	Teresa L. Williams	002510
SW846 8081A	Carrie Lahr	008835
SW846 8082	Teresa L. Williams	002510
SW846 8141A	Teresa L. Williams	002510
SW846 8260B	Dan Appelhans	001008
SW846 8270C	Joann Peterson	011674
SW846 8280A	Janet Hernandez	001970

References:

ASTM — Annual Book Of ASTM Standards.

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

MCAWW — "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 — "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D6F290294

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H8GLG	001	MOA06VOP001-008 INF CMP #1-8	06/28/06	05:50
H8GLM	002	MOA06VOP009-016 EFF CMP #1-8	06/28/06	06:00
H8GLP	003	MOA06VOP017 C-STATION	06/27/06	07:00
H8GLV	004	MOA06VOP018 TRIP BLANK	06/27/06	
H8GLX	005	MOA06DXN001 INFLUENT	06/28/06	08:00
H8GL7	006	MOA06DXN002 EFFLUENT	06/28/06	08:00
H8GL8	007	MOA06DXN003 SLUDGE	06/28/06	06:00
H8GME	008	MOA06PES004 SLUDGE	06/28/06	06:00
H8GMN	009	MOA06SVL003 SLUDGE	06/28/06	06:00
H8GMQ	010	MOA06VOP019 SLUDGE	06/28/06	06:00
H8GMW	011	MOA06SVL001 INFLUENT	06/28/06	08:00
H8GMX	012	MOA06SVL002 EFFLUENT	06/28/06	08:00
H8GM2	013	MOA06PST001 INFLUENT-1	06/28/06	08:00
H8GM3	014	MOA06PST002 INFLUENT-2	06/28/06	08:00
H8GM4	015	MOA06PST003 EFFLUENT	06/28/06	08:00
H8GNA	016	MOA06PES001 INFLUENT-1	06/28/06	08:00
H8GNF	017	MOA06PES002 INFLUENT-2	06/28/06	08:00
H8GNH	018	MOA06PES003 EFFLUENT	06/28/06	08:00

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.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP001-008 INF CMP #1-8

GC/MS Volatiles

Lot-Sample #...: D6F290294-001 **Work Order #...:** H8GLG1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 05:50 **Date Received..:** 06/29/06
Prep Date.....: 07/11/06 **Analysis Date..:** 07/11/06
Prep Batch #...: 6193438 **Analysis Time..:** 13:01
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**8.3 J**	**10**	**ug/L**	**0.20**
Benzene	**0.50 J**	**5.0**	**ug/L**	**0.22**
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	**2.9 J**	**5.0**	**ug/L**	**0.40**
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	**1.0 J**	**5.0**	**ug/L**	**0.56**
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	**1.5 J**	**5.0**	**ug/L**	**0.20**
Methylene chloride	**3.5 J**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	**4.2 J**	**5.0**	**ug/L**	**0.30**
Toluene	**12**	**5.0**	**ug/L**	**0.27**
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	119	(73 - 122)
4-Bromofluorobenzene	104	(79 - 119)
Toluene-d8	106	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP009-016 EFF CMP #1-8

GC/MS Volatiles

Lot-Sample #...: D6F290294-002 **Work Order #...:** H8GLM1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 07/07/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6188464 **Analysis Time..:** 16:06
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**6.7 J**	**10**	**ug/L**	**0.20**
Benzene	ND	5.0	ug/L	0.22
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	**3.6 J**	**5.0**	**ug/L**	**0.40**
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	**1.0 J**	**5.0**	**ug/L**	**0.56**
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	ND	5.0	ug/L	0.20
Methylene chloride	**4.5 J**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	**4.0 J**	**5.0**	**ug/L**	**0.30**
Toluene	**8.7**	**5.0**	**ug/L**	**0.27**
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(73 - 122)
4-Bromofluorobenzene	104	(79 - 119)
Toluene-d8	108	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP017 C-STATION

GC/MS Volatiles

Lot-Sample #...: D6F290294-003 **Work Order #...:** H8GLP1AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 07:00 **Date Received..:** 06/29/06
Prep Date.....: 07/07/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6188464 **Analysis Time..:** 16:28
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	0.20
Benzene	ND	5.0	ug/L	0.22
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	ND	5.0	ug/L	0.40
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	ND	5.0	ug/L	0.20
Methylene chloride	**4.0 J**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	ND	5.0	ug/L	0.30
Toluene	ND	5.0	ug/L	0.27
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(73 - 122)
4-Bromofluorobenzene	101	(79 - 119)
Toluene-d8	104	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP018 TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D6F290294-004 **Work Order #...:** H8GLV1AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 **Date Received..:** 06/29/06
Prep Date.....: 07/07/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6188464 **Analysis Time..:** 16:50
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	0.20
Benzene	ND	5.0	ug/L	0.22
Bromodichloromethane	**3.8 J**	**5.0**	**ug/L**	**0.26**
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	**46**	**5.0**	**ug/L**	**0.40**
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	ND	5.0	ug/L	0.20
Methylene chloride	**5.5**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	ND	5.0	ug/L	0.30
Toluene	ND	5.0	ug/L	0.27
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	112	(73 - 122)
4-Bromofluorobenzene	105	(79 - 119)
Toluene-d8	106	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP019 SLUDGE

GC/MS Volatiles

Lot-Sample #...: D6F290294-010 **Work Order #...:** H8GMQ1AC **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 06/30/06
Prep Batch #...: 6184164 **Analysis Time..:** 14:59
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chloroethyl vinyl ether	ND	160	ug/kg	2.5
Benzene	**5.0 J**	**16**	**ug/kg**	**1.5**
Bromodichloromethane	ND	16	ug/kg	1.7
Bromoform	ND	16	ug/kg	1.6
Bromomethane	ND	33	ug/kg	1.6
Carbon tetrachloride	ND	16	ug/kg	2.1
Chlorobenzene	ND	16	ug/kg	1.8
Chloroethane	ND	33	ug/kg	2.9
Chloroform	**3.8 J**	**33**	**ug/kg**	**1.9**
Chloromethane	ND	33	ug/kg	2.5
1,2-Dichlorobenzene	ND	16	ug/kg	1.5
1,3-Dichlorobenzene	ND	16	ug/kg	1.6
1,4-Dichlorobenzene	**53**	**16**	**ug/kg**	**2.5**
1,1-Dichloroethane	ND	16	ug/kg	1.8
1,2-Dichloroethane	ND	16	ug/kg	2.3
1,1-Dichloroethene	ND	16	ug/kg	1.9
trans-1,2-Dichloroethene	ND	8.1	ug/kg	1.3
1,2-Dichloropropane	ND	16	ug/kg	1.8
cis-1,3-Dichloropropene	ND	16	ug/kg	4.2
trans-1,3-Dichloropropene	ND	16	ug/kg	2.2
Ethylbenzene	**30**	**16**	**ug/kg**	**2.2**
Methylene chloride	ND	16	ug/kg	2.4
1,1,2,2-Tetrachloroethane	ND	16	ug/kg	2.0
Tetrachloroethene	**100**	**16**	**ug/kg**	**1.9**
Toluene	**290**	**16**	**ug/kg**	**2.2**
1,1,1-Trichloroethane	ND	16	ug/kg	1.7
1,1,2-Trichloroethane	ND	16	ug/kg	2.9
Trichloroethene	**2.3 J**	**16**	**ug/kg**	**1.6**
Trichlorofluoromethane	ND	33	ug/kg	3.4
Vinyl chloride	ND	16	ug/kg	1.9
Xylenes (total)	**180**	**16**	**ug/kg**	**2.0**
Dibromochloromethane	ND	16	ug/kg	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(10 - 179)
1,2-Dichloroethane-d4	90	(60 - 143)
4-Bromofluorobenzene	69	(59 - 129)
Toluene-d8	100	(68 - 134)

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP019 SLUDGE

GC/MS Volatiles

Lot-Sample #...: D6F290294-010 Work Order #...: H8GMQ1AC Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL001 INFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-011 **Work Order #...:** H8GMW1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/04/06
Prep Batch #...: 6181196 **Analysis Time..:** 05:16
Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	1.7
Acenaphthylene	ND	10	ug/L	1.8
Anthracene	ND	10	ug/L	1.9
Benzo(a)anthracene	ND	10	ug/L	1.7
Benzo(a)pyrene	ND	10	ug/L	1.3
Benzo(b)fluoranthene	ND	10	ug/L	0.39
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	0.46
4-Bromophenyl phenyl ether	ND	10	ug/L	2.1
Butyl benzyl phthalate	ND	20	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.4
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.9
bis(2-Chloroisopropyl) ether	ND	10	ug/L	0.43
4-Chloro-3-methylphenol	ND	20	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	1.7
2-Chlorophenol	ND	10	ug/L	0.38
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.4
Di-n-butyl phthalate	ND	20	ug/L	5.0
1,2-Dichlorobenzene	ND	10	ug/L	1.4
1,3-Dichlorobenzene	ND	10	ug/L	1.5
1,4-Dichlorobenzene	ND	10	ug/L	1.4
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	1.3
Diethyl phthalate	**7.9 J**	**20**	**ug/L**	**5.0**
2,4-Dimethylphenol	ND	10	ug/L	0.57
Dimethyl phthalate	ND	20	ug/L	5.0
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	20
2,4-Dinitrophenol	ND	60	ug/L	20
2,4-Dinitrotoluene	ND	20	ug/L	5.0
2,6-Dinitrotoluene	ND	20	ug/L	5.0

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL001 INFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-011 **Work Order #...:** H8GMW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Di-n-octyl phthalate	ND	20	ug/L	5.0
bis(2-Ethylhexyl) phthalate	**21**	**10**	**ug/L**	**1.4**
Fluoranthene	ND	20	ug/L	5.0
Fluorene	ND	10	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	2.1
Hexachlorobutadiene	ND	10	ug/L	1.3
Hexachloroethane	ND	10	ug/L	0.46
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5
Isophorone	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.5
Nitrobenzene	ND	20	ug/L	5.0
2-Nitrophenol	ND	20	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	1.7
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	5.0
Pentachlorophenol	ND	60	ug/L	20
Phenanthrene	ND	10	ug/L	1.0
Phenol	**27**	**10**	**ug/L**	**1.4**
Pyrene	ND	10	ug/L	0.37
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
2,4,6-Trichloro-phenol	ND	20	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(53 - 120)
Phenol-d5	82	(57 - 120)
Nitrobenzene-d5	80	(59 - 120)
2-Fluorobiphenyl	62	(49 - 120)
2,4,6-Tribromophenol	75	(50 - 120)
Terphenyl-d14	52 *	(63 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL002 EFFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-012 **Work Order #...:** H8GMX1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/04/06
Prep Batch #...: 6181196 **Analysis Time..:** 05:39
Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	1.7
Acenaphthylene	ND	10	ug/L	1.8
Anthracene	ND	10	ug/L	1.9
Benzo(a)anthracene	ND	10	ug/L	1.7
Benzo(a)pyrene	ND	10	ug/L	1.3
Benzo(b)fluoranthene	ND	10	ug/L	0.39
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	0.46
4-Bromophenyl phenyl ether	ND	10	ug/L	2.1
Butyl benzyl phthalate	ND	20	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.4
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.9
bis(2-Chloroisopropyl) ether	ND	10	ug/L	0.43
4-Chloro-3-methylphenol	ND	20	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	1.7
2-Chlorophenol	ND	10	ug/L	0.38
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.4
Di-n-butyl phthalate	ND	20	ug/L	5.0
1,2-Dichlorobenzene	ND	10	ug/L	1.4
1,3-Dichlorobenzene	ND	10	ug/L	1.5
1,4-Dichlorobenzene	ND	10	ug/L	1.4
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	1.3
Diethyl phthalate	**7.7 J**	**20**	**ug/L**	**5.0**
2,4-Dimethylphenol	ND	10	ug/L	0.57
Dimethyl phthalate	ND	20	ug/L	5.0
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	20
2,4-Dinitrophenol	ND	60	ug/L	20
2,4-Dinitrotoluene	ND	20	ug/L	5.0
2,6-Dinitrotoluene	ND	20	ug/L	5.0

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL002 EFFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-012 Work Order #...: H8GMX1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Di-n-octyl phthalate	ND	20	ug/L	5.0
bis(2-Ethylhexyl) phthalate	**18**	**10**	**ug/L**	**1.4**
Fluoranthene	ND	20	ug/L	5.0
Fluorene	ND	10	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	2.1
Hexachlorobutadiene	ND	10	ug/L	1.3
Hexachloroethane	ND	10	ug/L	0.46
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5
Isophorone	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.5
Nitrobenzene	ND	20	ug/L	5.0
2-Nitrophenol	ND	20	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	1.7
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	5.0
Pentachlorophenol	ND	60	ug/L	20
Phenanthrene	ND	10	ug/L	1.0
Phenol	**18**	**10**	**ug/L**	**1.4**
Pyrene	ND	10	ug/L	0.37
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
2,4,6-Trichloro-phenol	ND	20	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(53 - 120)
Phenol-d5	76	(57 - 120)
Nitrobenzene-d5	75	(59 - 120)
2-Fluorobiphenyl	68	(49 - 120)
2,4,6-Tribromophenol	82	(50 - 120)
Terphenyl-d14	59 *	(63 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL003 SLUDGE

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-009 **Work Order #...:** H8GMN1AC **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6186393 **Analysis Time..:** 21:02
Dilution Factor: 40

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Isophorone	ND	42000	ug/kg	2200
1,2-Dichlorobenzene	ND	42000	ug/kg	2800
1,2,4-Trichloro-benzene	ND	42000	ug/kg	3600
1,3-Dichlorobenzene	ND	42000	ug/kg	1500
1,4-Dichlorobenzene	ND	42000	ug/kg	1700
Acenaphthene	ND	42000	ug/kg	1300
Acenaphthylene	ND	42000	ug/kg	2200
Anthracene	ND	42000	ug/kg	2200
Benzo(a)anthracene	ND	42000	ug/kg	2600
Benzo(b)fluoranthene	ND	42000	ug/kg	3300
Benzo(k)fluoranthene	ND	42000	ug/kg	5100
Benzo(ghi)perylene	ND	42000	ug/kg	2000
Benzo(a)pyrene	ND	42000	ug/kg	2600
bis(2-Chloroethoxy) methane	ND	42000	ug/kg	2900
bis(2-Chloroethyl)-ether	ND	42000	ug/kg	2100
bis(2-Ethylhexyl) phthalate	**47000**	**42000**	**ug/kg**	**4000**
4-Bromophenyl phenyl ether	ND	42000	ug/kg	2400
Butyl benzyl phthalate	ND	42000	ug/kg	5500
4-Chloro-3-methylphenol	ND	42000	ug/kg	3100
2-Chloronaphthalene	ND	42000	ug/kg	1300
2-Chlorophenol	ND	42000	ug/kg	2700
4-Chlorophenyl phenyl ether	ND	42000	ug/kg	2700
Chrysene	ND	42000	ug/kg	3500
Dibenz(a,h)anthracene	ND	42000	ug/kg	2400
Di-n-butyl phthalate	ND	42000	ug/kg	3700
3,3'-Dichlorobenzidine	ND	84000	ug/kg	6400
2,4-Dichlorophenol	ND	42000	ug/kg	1300
Diethyl phthalate	ND	84000	ug/kg	3300
2,4-Dimethylphenol	ND	42000	ug/kg	3300
Dimethyl phthalate	ND	42000	ug/kg	2300
4,6-Dinitro-2-methylphenol	ND	200000	ug/kg	6400

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL003 SLUDGE

GC/MS Semivolatiles

Lot-Sample #...: D6F290294-009 **Work Order #...:** H8GMN1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	200000	ug/kg	6400
2,4-Dinitrotoluene	ND	42000	ug/kg	2900
2,6-Dinitrotoluene	ND	42000	ug/kg	3600
Di-n-octyl phthalate	ND	42000	ug/kg	1800
Fluoranthene	ND	42000	ug/kg	4600
Fluorene	ND	42000	ug/kg	2300
Hexachlorobenzene	ND	42000	ug/kg	3700
Hexachloroethane	ND	42000	ug/kg	2700
Indeno(1,2,3-cd)pyrene	ND	42000	ug/kg	2800
Naphthalene	ND	42000	ug/kg	4000
Nitrobenzene	ND	42000	ug/kg	2800
2-Nitrophenol	ND	42000	ug/kg	1300
4-Nitrophenol	ND	200000	ug/kg	5500
N-Nitrosodi-n-propyl-amine	ND	42000	ug/kg	4000
Pentachlorophenol	ND	200000	ug/kg	14000
Phenanthrene	ND	42000	ug/kg	2200
Phenol	ND	42000	ug/kg	2300
Pyrene	ND	42000	ug/kg	1500
2,4,6-Trichloro-phenol	ND	42000	ug/kg	1300
bis(2-Chloroisopropyl) ether	ND	42000	ug/kg	4000
Hexachlorobutadiene	ND	42000	ug/kg	1300

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(34 - 120)
Phenol-d5	NC,DIL	(37 - 120)
Nitrobenzene-d5	NC,DIL	(36 - 120)
2-Fluorobiphenyl	NC,DIL	(36 - 120)
2,4,6-Tribromophenol	NC,DIL	(30 - 120)
Terphenyl-d14	NC,DIL	(28 - 120)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES001 INFLUENT-1

GC Semivolatiles

Lot-Sample #...: D6F290294-016 **Work Order #...:** H8GNA1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6181197 **Analysis Time..:** 12:31
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	**0.021 J,COL**	**0.050**	**ug/L**	**0.0059**
alpha-BHC	ND	0.050	ug/L	0.0053
beta-BHC	ND	0.050	ug/L	0.0087
delta-BHC	ND	0.050	ug/L	0.0058
gamma-BHC (Lindane)	**0.052**	**0.050**	**ug/L**	**0.0069**
Chlordane (technical)	ND	0.50	ug/L	0.14
alpha-Chlordane	ND	0.050	ug/L	0.0053
gamma-Chlordane	ND	0.050	ug/L	0.0091
4,4'-DDD	ND	0.10	ug/L	0.0077
4,4'-DDE	ND	0.10	ug/L	0.0075
4,4'-DDT	ND	0.10	ug/L	0.015
Dieldrin	ND	0.10	ug/L	0.0063
Endosulfan I	ND	0.050	ug/L	0.0058
Endosulfan II	ND	0.10	ug/L	0.0070
Endosulfan sulfate	ND	0.10	ug/L	0.0057
Endrin	ND	0.10	ug/L	0.0079
Endrin aldehyde	ND	0.10	ug/L	0.0088
Endrin ketone	ND	0.10	ug/L	0.0070
Heptachlor	ND	0.050	ug/L	0.0077
Heptachlor epoxide	ND	0.050	ug/L	0.0075
Methoxychlor	ND	0.50	ug/L	0.013
Mirex	ND	0.050	ug/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	65	(48 - 127)
Tetrachloro-m-xylene	87	(40 - 107)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES001 INFLUENT-1

GC Semivolatiles

Lot-Sample #...: D6F290294-016 **Work Order #...:** H8GNA2AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6181197 **Analysis Time..:** 18:41
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	1.0	ug/L	0.17
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.092
Aroclor 1254	ND	1.0	ug/L	0.11
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	26 *	(48 - 127)
Tetrachloro-m-xylene	65	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES002 INFLUENT-2

GC Semivolatiles

Lot-Sample #...: D6F290294-017 **Work Order #...:** H8GNF1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6181197 **Analysis Time..:** 12:48
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	**0.020 J**	**0.050**	**ug/L**	**0.0059**
alpha-BHC	ND	0.050	ug/L	0.0053
beta-BHC	ND	0.050	ug/L	0.0087
delta-BHC	ND	0.050	ug/L	0.0058
gamma-BHC (Lindane)	**0.012 J,COL**	**0.050**	**ug/L**	**0.0069**
Chlordane (technical)	ND	0.50	ug/L	0.14
alpha-Chlordane	ND	0.050	ug/L	0.0053
gamma-Chlordane	ND	0.050	ug/L	0.0091
4,4'-DDD	ND	0.10	ug/L	0.0077
4,4'-DDE	ND	0.10	ug/L	0.0075
4,4'-DDT	ND	0.10	ug/L	0.015
Dieldrin	ND	0.10	ug/L	0.0063
Endosulfan I	ND	0.050	ug/L	0.0058
Endosulfan II	ND	0.10	ug/L	0.0070
Endosulfan sulfate	ND	0.10	ug/L	0.0057
Endrin	ND	0.10	ug/L	0.0079
Endrin aldehyde	ND	0.10	ug/L	0.0088
Endrin ketone	ND	0.10	ug/L	0.0070
Heptachlor	ND	0.050	ug/L	0.0077
Heptachlor epoxide	ND	0.050	ug/L	0.0075
Methoxychlor	ND	0.50	ug/L	0.013
Mirex	ND	0.050	ug/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	55	(48 - 127)
Tetrachloro-m-xylene	88	(40 - 107)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES002 INFLUENT-2

GC Semivolatiles

Lot-Sample #...: D6F290294-017 **Work Order #...:** H8GNF2AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6181197 **Analysis Time..:** 18:58
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	1.0	ug/L	0.17
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.092
Aroclor 1254	ND	1.0	ug/L	0.11
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	27 *	(48 - 127)
Tetrachloro-m-xylene	76	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES003 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6F290294-018 **Work Order #...:** H8GNH1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6181197 **Analysis Time..:** 13:05
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0059
alpha-BHC	ND	0.050	ug/L	0.0053
beta-BHC	ND	0.050	ug/L	0.0087
delta-BHC	ND	0.050	ug/L	0.0058
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0069
Chlordane (technical)	ND	0.50	ug/L	0.14
alpha-Chlordane	ND	0.050	ug/L	0.0053
gamma-Chlordane	ND	0.050	ug/L	0.0091
4,4'-DDD	ND	0.10	ug/L	0.0077
4,4'-DDE	**0.0080 J,COL**	**0.10**	**ug/L**	**0.0075**
4,4'-DDT	ND	0.10	ug/L	0.015
Dieldrin	**0.010 J,COL**	**0.10**	**ug/L**	**0.0063**
Endosulfan I	ND	0.050	ug/L	0.0058
Endosulfan II	ND	0.10	ug/L	0.0070
Endosulfan sulfate	ND	0.10	ug/L	0.0057
Endrin	ND	0.10	ug/L	0.0079
Endrin aldehyde	ND	0.10	ug/L	0.0088
Endrin ketone	**0.012 J,COL**	**0.10**	**ug/L**	**0.0070**
Heptachlor	ND	0.050	ug/L	0.0077
Heptachlor epoxide	ND	0.050	ug/L	0.0075
Methoxychlor	ND	0.50	ug/L	0.013
Mirex	ND	0.050	ug/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	70	(48 - 127)
Tetrachloro-m-xylene	61	(40 - 107)

NOTE(S):

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES003 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6F290294-018 **Work Order #...:** H8GNH2AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 06/30/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6181197 **Analysis Time..:** 19:14
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	1.0	ug/L	0.17
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.092
Aroclor 1254	ND	1.0	ug/L	0.11
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	60	(48 - 127)
Tetrachloro-m-xylene	72	(40 - 107)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PST001 INFLUENT-1

GC Semivolatiles

Lot-Sample #...: D6F290294-013 **Work Order #...:** H8GM21AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 07/03/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6184119 **Analysis Time..:** 22:50
Dilution Factor: 1

Method.....: MCAWW 614

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.45
Demeton (total)	ND	1.0	ug/L	0.22
Malathion	ND	1.2	ug/L	0.096
Methyl parathion	ND	4.0	ug/L	1.0
Ethyl parathion	ND	1.0	ug/L	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	82	(49 - 171)
Triphenyl phosphate	94	(60 - 154)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PST002 INFLUENT-2

GC Semivolatiles

Lot-Sample #...: D6F290294-014 **Work Order #...:** H8GM31AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 07/03/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6184119 **Analysis Time..:** 23:22
Dilution Factor: 1

Method.....: MCAWW 614

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.45
Demeton (total)	ND	1.0	ug/L	0.22
Malathion	ND	1.2	ug/L	0.096
Methyl parathion	ND	4.0	ug/L	1.0
Ethyl parathion	ND	1.0	ug/L	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	76	(49 - 171)
Triphenyl phosphate	75	(60 - 154)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PST003 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6F290294-015 **Work Order #...:** H8GM41AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 07/03/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6184119 **Analysis Time..:** 23:53
Dilution Factor: 1

Method.....: MCAWW 614

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.45
Demeton (total)	ND	1.0	ug/L	0.22
Malathion	ND	1.2	ug/L	0.096
Methyl parathion	ND	4.0	ug/L	1.0
Ethyl parathion	ND	1.0	ug/L	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	82	(49 - 171)
Triphenyl phosphate	89	(60 - 154)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES004 SLUDGE

GC Semivolatiles

Lot-Sample #...: D6F290294-008 **Work Order #...:** H8GME1AD **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/12/06
Prep Batch #...: 6186191 **Analysis Time..:** 14:40
Dilution Factor: 10

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Mirex	ND	51	ug/kg	8.1
Aldrin	**79**	**51**	**ug/kg**	**7.6**
alpha-BHC	ND	51	ug/kg	6.5
beta-BHC	ND	51	ug/kg	8.6
delta-BHC	ND	51	ug/kg	5.0
gamma-BHC (Lindane)	**18 J,COL**	**51**	**ug/kg**	**4.3**
Chlordane (technical)	ND	760	ug/kg	240
alpha-Chlordane	ND	51	ug/kg	9.8
gamma-Chlordane	**42 J,COL**	**51**	**ug/kg**	**8.0**
4,4'-DDD	ND	51	ug/kg	16
4,4'-DDE	**19 J,COL**	**51**	**ug/kg**	**7.2**
4,4'-DDT	ND	51	ug/kg	18
Dieldrin	**8.9 J,COL**	**51**	**ug/kg**	**6.3**
Endosulfan I	ND	51	ug/kg	5.3
Endosulfan II	ND	51	ug/kg	8.7
Endosulfan sulfate	ND	51	ug/kg	8.3
Endrin	ND	51	ug/kg	9.2
Endrin aldehyde	ND	51	ug/kg	6.4
Endrin ketone	ND	51	ug/kg	6.4
Heptachlor	ND	51	ug/kg	6.5
Heptachlor epoxide	ND	51	ug/kg	13
Methoxychlor	**72 J**	**100**	**ug/kg**	**14**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(49 - 130)
Tetrachloro-m-xylene	NC,DIL	(46 - 127)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES004 SLUDGE

GC Semivolatiles

Lot-Sample #...: D6F290294-008 **Work Order #...:** H8GME1AE **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6186177 **Analysis Time..:** 14:55
Dilution Factor: 1

Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	100	ug/kg	15
Aroclor 1221	ND	140	ug/kg	47
Aroclor 1232	ND	100	ug/kg	15
Aroclor 1242	ND	100	ug/kg	28
Aroclor 1248	ND	100	ug/kg	17
Aroclor 1254	ND	100	ug/kg	17
Aroclor 1260	ND	100	ug/kg	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	132	(53 - 132)
Decachlorobiphenyl	87	(38 - 162)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: **MOA06PES004 SLUDGE**

GC Semivolatiles

Lot-Sample #...: D6F290294-008 **Work Order #...:** H8GME1AA **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 06/29/06 **Analysis Date..:** 07/08/06
Prep Batch #...: 6180531 **Analysis Time..:** 08:22
Dilution Factor: 1

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	39	ug/kg	11
Demeton (total)	ND	120	ug/kg	23
Malathion	ND	45	ug/kg	14
Ethyl parathion	**51 J**	**54**	**ug/kg**	**16**
Methyl parathion	ND	60	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	51	(37 - 124)
Triphenyl phosphate	65	(50 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: **MOA06DXN001 INFLUENT**

Trace Level Organic Compounds

Lot-Sample #...: D6F290294-005 **Work Order #...:** H8GLX1AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186361 **Analysis Time..:** 16:17
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.30	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	63	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	(25 - 150)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN002 EFFLUENT

Trace Level Organic Compounds

Lot-Sample #...: D6F290294-006 **Work Order #...:** H8GL71AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 08:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186361 **Analysis Time..:** 17:05
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.12	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	74	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	90	(25 - 150)

Kinnetics Laboratories, Inc.

Client Sample ID: **MOA06DXN003 SLUDGE**

Trace Level Organic Compounds

Lot-Sample #...: D6F290294-007 **Work Order #...:** H8GL81AA **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186359 **Analysis Time..:** 08:12
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.090	ng/g	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN003 SLUDGE

General Chemistry

Lot-Sample #...: D6F290294-007 **Work Order #...:** H8GL8 **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**69**	**0.10**	**%**	**ASTM D 2216-90**	**07/10-07/11/06**	**6191258**

Dilution Factor: 1 Analysis Time..: 09:16 MDL.....: 0.10

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES004 SLUDGE

General Chemistry

Lot-Sample #...: D6F290294-008 **Work Order #...:** H8GME **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	67	**0.10**	**%**	**MCAWW 160.3 MOD**	**07/06/06**	**6187186**
		Dilution Factor: 1		Analysis Time..: 16:30	MDL.....: 0.0	

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL003 SLUDGE

General Chemistry

Lot-Sample #...: D6F290294-009 **Work Order #...:** H8GMN **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**69**	**0.10**	**%**	**MCAWW 160.3 MOD**	**07/06/06**	**6187186**

Dilution Factor: 1 Analysis Time..: 16:30 MDL.....: 0.0

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP019 SLUDGE

General Chemistry

Lot-Sample #...: D6F290294-010 **Work Order #...:** H8GMQ **Matrix.....:** SOLID
Date Sampled...: 06/28/06 06:00 **Date Received..:** 06/29/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**69**	**0.10**	**%**	**MCAWW 160.3 MOD**	**07/06/06**	**6187186**

Dilution Factor: 1 Analysis Time..: 16:30 MDL.....: 0.0

QC DATA ASSOCIATION SUMMARY

D6F290294

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	CFR136A 624		6193438	6193255
002	WATER	CFR136A 624		6188464	6188282
003	WATER	CFR136A 624		6188464	6188282
004	WATER	CFR136A 624		6188464	6188282
005	WATER	SW846 8280A		6186361	
006	WATER	SW846 8280A		6186361	
007	SOLID	ASTM D 2216-90		6191258	6191149
	SOLID	SW846 8280A		6186359	
008	SOLID	SW846 8141A		6180531	6180306
	SOLID	SW846 8141A		6193370	6193208
	SOLID	SW846 8082		6186177	6186096
	SOLID	SW846 8081A		6186191	6186114
	SOLID	MCAWW 160.3 MOD		6187186	6187092
009	SOLID	SW846 8270C		6186393	6186257
	SOLID	MCAWW 160.3 MOD		6187186	6187092
010	SOLID	SW846 8260B		6184164	6184119
	SOLID	MCAWW 160.3 MOD		6187186	6187092
011	WATER	CFR136A 625		6181196	
012	WATER	CFR136A 625		6181196	
013	WATER	MCAWW 614		6184119	
014	WATER	MCAWW 614		6184119	
015	WATER	MCAWW 614		6184119	
016	WATER	CFR136A 608		6181197	
017	WATER	CFR136A 608		6181197	

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

D6F290294

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
018	WATER	CFR136A 608		6181197	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8VGQ1AA **Matrix.....:** WATER
MB Lot-Sample #: D6G070000-464

Prep Date.....: 07/07/06 **Analysis Time..:** 13:47
Analysis Date..: 07/07/06 **Prep Batch #...:** 6188464
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	10	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
Chloroethane	ND	10	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
Chloromethane	ND	10	ug/L	CFR136A 624
Dibromochloromethane	ND	5.0	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
cis-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
trans-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
Ethylbenzene	ND	5.0	ug/L	CFR136A 624
Methylene chloride	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
Trichlorofluoromethane	ND	10	ug/L	CFR136A 624
Vinyl chloride	ND	10	ug/L	CFR136A 624
2-Chloroethyl vinyl ether	ND	5.0	ug/L	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(73 - 122)
4-Bromofluorobenzene	93	(79 - 119)
Toluene-d8	96	(80 - 120)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H84J01AA **Matrix.....:** WATER
MB Lot-Sample #: D6G120000-438

Prep Date.....: 07/11/06 **Analysis Time..:** 12:39
Analysis Date..: 07/11/06 **Prep Batch #...:** 6193438
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	10	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
Chloroethane	ND	10	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
Chloromethane	ND	10	ug/L	CFR136A 624
Dibromochloromethane	ND	5.0	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
cis-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
trans-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
Ethylbenzene	ND	5.0	ug/L	CFR136A 624
Methylene chloride	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
Trichlorofluoromethane	ND	10	ug/L	CFR136A 624
Vinyl chloride	ND	10	ug/L	CFR136A 624
2-Chloroethyl vinyl ether	ND	5.0	ug/L	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	103	(73 - 122)
4-Bromofluorobenzene	95	(79 - 119)
Toluene-d8	101	(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 #...: D6F290294 Work Order #...: H8VGQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G070000-464 H8VGQ1AD-LCSD
Prep Date.....: 07/07/06 Analysis Date..: 07/07/06
Prep Batch #...: 6188464 Analysis Time..: 10:21
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	111	(80 - 120)			CFR136A 624
	108	(80 - 120)	2.4	(0-30)	CFR136A 624
Bromodichloromethane	102	(76 - 122)			CFR136A 624
	98	(76 - 122)	3.8	(0-30)	CFR136A 624
Bromoform	107	(68 - 130)			CFR136A 624
	110	(68 - 130)	2.8	(0-30)	CFR136A 624
Bromomethane	77	(49 - 151)			CFR136A 624
	64	(49 - 151)	19	(0-30)	CFR136A 624
Carbon tetrachloride	105	(72 - 130)			CFR136A 624
	105	(72 - 130)	0.080	(0-30)	CFR136A 624
Chlorobenzene	110	(78 - 125)			CFR136A 624
	111	(78 - 125)	0.39	(0-30)	CFR136A 624
Chloroethane	85	(58 - 150)			CFR136A 624
	74	(58 - 150)	14	(0-30)	CFR136A 624
Chloroform	107	(78 - 122)			CFR136A 624
	105	(78 - 122)	1.6	(0-30)	CFR136A 624
Chloromethane	78	(46 - 162)			CFR136A 624
	65	(46 - 162)	18	(0-30)	CFR136A 624
Dibromochloromethane	106	(76 - 123)			CFR136A 624
	107	(76 - 123)	1.4	(0-30)	CFR136A 624
1,2-Dichlorobenzene	116	(75 - 128)			CFR136A 624
	110	(75 - 128)	5.0	(0-30)	CFR136A 624
1,3-Dichlorobenzene	110	(77 - 128)			CFR136A 624
	107	(77 - 128)	2.1	(0-30)	CFR136A 624
1,4-Dichlorobenzene	108	(76 - 126)			CFR136A 624
	110	(76 - 126)	1.7	(0-30)	CFR136A 624
1,1-Dichloroethane	114	(77 - 121)			CFR136A 624
	104	(77 - 121)	9.0	(0-30)	CFR136A 624
1,2-Dichloroethane	107	(75 - 121)			CFR136A 624
	109	(75 - 121)	1.5	(0-30)	CFR136A 624
1,1-Dichloroethene	135	(63 - 137)			CFR136A 624
	120	(63 - 137)	12	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	114	(73 - 127)			CFR136A 624
	107	(73 - 127)	5.6	(0-30)	CFR136A 624
1,2-Dichloropropane	111	(79 - 123)			CFR136A 624
	109	(79 - 123)	1.3	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	105	(76 - 119)			CFR136A 624
	104	(76 - 119)	0.89	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	107	(68 - 126)			CFR136A 624
	109	(68 - 126)	1.3	(0-30)	CFR136A 624

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8VGQ1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G070000-464 H8VGQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	**109**	**(74 - 131)**			**CFR136A 624**
	107	**(74 - 131)**	**0.98**	**(0-30)**	**CFR136A 624**
Methylene chloride	**109**	**(73 - 120)**			**CFR136A 624**
	102	**(73 - 120)**	**6.4**	**(0-30)**	**CFR136A 624**
1,1,2,2-Tetrachloroethane	**119**	**(63 - 133)**			**CFR136A 624**
	111	**(63 - 133)**	**7.0**	**(0-30)**	**CFR136A 624**
Tetrachloroethene	**105**	**(77 - 130)**			**CFR136A 624**
	104	**(77 - 130)**	**1.2**	**(0-30)**	**CFR136A 624**
Toluene	**107**	**(73 - 129)**			**CFR136A 624**
	101	**(73 - 129)**	**5.7**	**(0-30)**	**CFR136A 624**
1,1,1-Trichloroethane	**113**	**(73 - 129)**			**CFR136A 624**
	107	**(73 - 129)**	**5.1**	**(0-30)**	**CFR136A 624**
1,1,2-Trichloroethane	**111**	**(74 - 127)**			**CFR136A 624**
	115	**(74 - 127)**	**3.4**	**(0-30)**	**CFR136A 624**
Trichloroethene	**107**	**(79 - 123)**			**CFR136A 624**
	108	**(79 - 123)**	**1.3**	**(0-30)**	**CFR136A 624**
Trichlorofluoromethane	**94**	**(59 - 145)**			**CFR136A 624**
	84	**(59 - 145)**	**11**	**(0-30)**	**CFR136A 624**
Vinyl chloride	**83**	**(55 - 144)**			**CFR136A 624**
	70	**(55 - 144)**	**17**	**(0-30)**	**CFR136A 624**
1,4-Dioxane	**93**	**(25 - 141)**			**CFR136A 624**
	88	**(25 - 141)**	**4.6**	**(0-20)**	**CFR136A 624**
Acetone	**100**	**(42 - 170)**			**CFR136A 624**
	91	**(42 - 170)**	**9.1**	**(0-20)**	**CFR136A 624**
1,3-Dichloropropene (total)	**106**	**(75 - 119)**			**CFR136A 624**
	106	**(75 - 119)**	**0.20**	**(0-20)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(73 - 122)
	105	(73 - 122)
4-Bromofluorobenzene	103	(79 - 119)
	104	(79 - 119)
Toluene-d8	104	(80 - 120)
	105	(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 #...: D6F290294 Work Order #...: H8VGQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G070000-464 H8VGQ1AD-LCSD
Prep Date.....: 07/07/06 Analysis Date..: 07/07/06
Prep Batch #...: 6188464 Analysis Time..: 10:21
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	20.0	22.1	ug/L	111		CFR136A 624
	20.0	21.6	ug/L	108	2.4	CFR136A 624
Bromodichloromethane	20.0	20.4	ug/L	102		CFR136A 624
	20.0	19.6	ug/L	98	3.8	CFR136A 624
Bromoform	20.0	21.3	ug/L	107		CFR136A 624
	20.0	22.0	ug/L	110	2.8	CFR136A 624
Bromomethane	20.0	15.5	ug/L	77		CFR136A 624
	20.0	12.8	ug/L	64	19	CFR136A 624
Carbon tetrachloride	20.0	20.9	ug/L	105		CFR136A 624
	20.0	20.9	ug/L	105	0.080	CFR136A 624
Chlorobenzene	20.0	22.1	ug/L	110		CFR136A 624
	20.0	22.1	ug/L	111	0.39	CFR136A 624
Chloroethane	20.0	17.1	ug/L	85		CFR136A 624
	20.0	14.9	ug/L	74	14	CFR136A 624
Chloroform	20.0	21.4	ug/L	107		CFR136A 624
	20.0	21.0	ug/L	105	1.6	CFR136A 624
Chloromethane	20.0	15.5	ug/L	78		CFR136A 624
	20.0	13.0	ug/L	65	18	CFR136A 624
Dibromochloromethane	20.0	21.2	ug/L	106		CFR136A 624
	20.0	21.5	ug/L	107	1.4	CFR136A 624
1,2-Dichlorobenzene	20.0	23.2	ug/L	116		CFR136A 624
	20.0	22.0	ug/L	110	5.0	CFR136A 624
1,3-Dichlorobenzene	20.0	21.9	ug/L	110		CFR136A 624
	20.0	21.5	ug/L	107	2.1	CFR136A 624
1,4-Dichlorobenzene	20.0	21.6	ug/L	108		CFR136A 624
	20.0	22.0	ug/L	110	1.7	CFR136A 624
1,1-Dichloroethane	20.0	22.8	ug/L	114		CFR136A 624
	20.0	20.9	ug/L	104	9.0	CFR136A 624
1,2-Dichloroethane	20.0	21.4	ug/L	107		CFR136A 624
	20.0	21.8	ug/L	109	1.5	CFR136A 624
1,1-Dichloroethene	20.0	27.0	ug/L	135		CFR136A 624
	20.0	24.1	ug/L	120	12	CFR136A 624
trans-1,2-Dichloroethene	20.0	22.7	ug/L	114		CFR136A 624
	20.0	21.5	ug/L	107	5.6	CFR136A 624
1,2-Dichloropropane	20.0	22.1	ug/L	111		CFR136A 624
	20.0	21.8	ug/L	109	1.3	CFR136A 624
cis-1,3-Dichloropropene	20.0	21.0	ug/L	105		CFR136A 624
	20.0	20.8	ug/L	104	0.89	CFR136A 624
trans-1,3-Dichloropropene	20.0	21.4	ug/L	107		CFR136A 624
	20.0	21.7	ug/L	109	1.3	CFR136A 624

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 Work Order #...: H8VGQ1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G070000-464 H8VGQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	20.0	21.7	ug/L	109		CFR136A 624
	20.0	21.5	ug/L	107	0.98	CFR136A 624
Methylene chloride	20.0	21.8	ug/L	109		CFR136A 624
	20.0	20.4	ug/L	102	6.4	CFR136A 624
1,1,2,2-Tetrachloroethane	20.0	23.7	ug/L	119		CFR136A 624
	20.0	22.1	ug/L	111	7.0	CFR136A 624
Tetrachloroethene	20.0	21.0	ug/L	105		CFR136A 624
	20.0	20.7	ug/L	104	1.2	CFR136A 624
Toluene	20.0	21.4	ug/L	107		CFR136A 624
	20.0	20.2	ug/L	101	5.7	CFR136A 624
1,1,1-Trichloroethane	20.0	22.5	ug/L	113		CFR136A 624
	20.0	21.4	ug/L	107	5.1	CFR136A 624
1,1,2-Trichloroethane	20.0	22.2	ug/L	111		CFR136A 624
	20.0	23.0	ug/L	115	3.4	CFR136A 624
Trichloroethene	20.0	21.4	ug/L	107		CFR136A 624
	20.0	21.7	ug/L	108	1.3	CFR136A 624
Trichlorofluoromethane	20.0	18.8	ug/L	94		CFR136A 624
	20.0	16.8	ug/L	84	11	CFR136A 624
Vinyl chloride	20.0	16.6	ug/L	83		CFR136A 624
	20.0	14.0	ug/L	70	17	CFR136A 624
1,4-Dioxane	1000	926	ug/L	93		CFR136A 624
	1000	885	ug/L	88	4.6	CFR136A 624
Acetone	40.0	40.0	ug/L	100		CFR136A 624
	40.0	36.5	ug/L	91	9.1	CFR136A 624
1,3-Dichloropropene (total)	40.0	42.5	ug/L	106		CFR136A 624
	40.0	42.6	ug/L	106	0.20	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	99	(73 - 122)
	105	(73 - 122)
4-Bromofluorobenzene	103	(79 - 119)
	104	(79 - 119)
Toluene-d8	104	(80 - 120)
	105	(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 #...: D6F290294 Work Order #...: H84J01AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G120000-438 H84J01AD-LCSD
Prep Date.....: 07/11/06 Analysis Date..: 07/11/06
Prep Batch #...: 6193438 Analysis Time..: 11:33
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	108	(80 - 120)			CFR136A 624
	110	(80 - 120)	1.8	(0-30)	CFR136A 624
Bromodichloromethane	97	(76 - 122)			CFR136A 624
	104	(76 - 122)	6.9	(0-30)	CFR136A 624
Bromoform	100	(68 - 130)			CFR136A 624
	100	(68 - 130)	0.0	(0-30)	CFR136A 624
Bromomethane	91	(49 - 151)			CFR136A 624
	86	(49 - 151)	5.1	(0-30)	CFR136A 624
Carbon tetrachloride	103	(72 - 130)			CFR136A 624
	104	(72 - 130)	0.54	(0-30)	CFR136A 624
Chlorobenzene	100	(78 - 125)			CFR136A 624
	100	(78 - 125)	0.14	(0-30)	CFR136A 624
Chloroethane	101	(58 - 150)			CFR136A 624
	90	(58 - 150)	12	(0-30)	CFR136A 624
Chloroform	101	(78 - 122)			CFR136A 624
	103	(78 - 122)	2.0	(0-30)	CFR136A 624
Chloromethane	94	(46 - 162)			CFR136A 624
	87	(46 - 162)	8.4	(0-30)	CFR136A 624
Dibromochloromethane	101	(76 - 123)			CFR136A 624
	101	(76 - 123)	0.73	(0-30)	CFR136A 624
1,2-Dichlorobenzene	113	(75 - 128)			CFR136A 624
	103	(75 - 128)	9.6	(0-30)	CFR136A 624
1,3-Dichlorobenzene	107	(77 - 128)			CFR136A 624
	101	(77 - 128)	6.0	(0-30)	CFR136A 624
1,4-Dichlorobenzene	108	(76 - 126)			CFR136A 624
	101	(76 - 126)	6.8	(0-30)	CFR136A 624
1,1-Dichloroethane	105	(77 - 121)			CFR136A 624
	104	(77 - 121)	0.81	(0-30)	CFR136A 624
1,2-Dichloroethane	107	(75 - 121)			CFR136A 624
	113	(75 - 121)	5.5	(0-30)	CFR136A 624
1,1-Dichloroethene	121	(63 - 137)			CFR136A 624
	112	(63 - 137)	8.0	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	109	(73 - 127)			CFR136A 624
	106	(73 - 127)	2.3	(0-30)	CFR136A 624
1,2-Dichloropropane	105	(79 - 123)			CFR136A 624
	101	(79 - 123)	3.0	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	103	(76 - 119)			CFR136A 624
	106	(76 - 119)	2.0	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	103	(68 - 126)			CFR136A 624
	103	(68 - 126)	0.50	(0-30)	CFR136A 624

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H84J01AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G120000-438 H84J01AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	**108**	**(74 - 131)**			**CFR136A 624**
	102	**(74 - 131)**	**6.6**	**(0-30)**	**CFR136A 624**
Methylene chloride	**108**	**(73 - 120)**			**CFR136A 624**
	99	**(73 - 120)**	**8.3**	**(0-30)**	**CFR136A 624**
1,1,2,2-Tetrachloroethane	**107**	**(63 - 133)**			**CFR136A 624**
	112	**(63 - 133)**	**4.7**	**(0-30)**	**CFR136A 624**
Tetrachloroethene	**100**	**(77 - 130)**			**CFR136A 624**
	102	**(77 - 130)**	**1.6**	**(0-30)**	**CFR136A 624**
Toluene	**103**	**(73 - 129)**			**CFR136A 624**
	97	**(73 - 129)**	**5.8**	**(0-30)**	**CFR136A 624**
1,1,1-Trichloroethane	**103**	**(73 - 129)**			**CFR136A 624**
	105	**(73 - 129)**	**2.1**	**(0-30)**	**CFR136A 624**
1,1,2-Trichloroethane	**99**	**(74 - 127)**			**CFR136A 624**
	105	**(74 - 127)**	**5.7**	**(0-30)**	**CFR136A 624**
Trichloroethene	**106**	**(79 - 123)**			**CFR136A 624**
	102	**(79 - 123)**	**3.5**	**(0-30)**	**CFR136A 624**
Trichlorofluoromethane	**97**	**(59 - 145)**			**CFR136A 624**
	94	**(59 - 145)**	**3.4**	**(0-30)**	**CFR136A 624**
Vinyl chloride	**95**	**(55 - 144)**			**CFR136A 624**
	87	**(55 - 144)**	**8.8**	**(0-30)**	**CFR136A 624**
2-Chloroethyl vinyl ether	**98**	**(51 - 134)**			**CFR136A 624**
	93	**(51 - 134)**	**5.1**	**(0-45)**	**CFR136A 624**
1,4-Dioxane	**99**	**(25 - 141)**			**CFR136A 624**
	107	**(25 - 141)**	**7.1**	**(0-20)**	**CFR136A 624**
Acetone	**84**	**(42 - 170)**			**CFR136A 624**
	97	**(42 - 170)**	**14**	**(0-20)**	**CFR136A 624**
1,3-Dichloropropene (total)	**103**	**(75 - 119)**			**CFR136A 624**
	104	**(75 - 119)**	**1.3**	**(0-20)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(73 - 122)
	104	(73 - 122)
4-Bromofluorobenzene	91	(79 - 119)
	90	(79 - 119)
Toluene-d8	93	(80 - 120)
	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 #...: D6F290294 Work Order #...: H84J01AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G120000-438 H84J01AD-LCSD
Prep Date.....: 07/11/06 Analysis Date..: 07/11/06
Prep Batch #...: 6193438 Analysis Time..: 11:33
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	20.0	21.6	ug/L	108		CFR136A 624
	20.0	22.0	ug/L	110	1.8	CFR136A 624
Bromodichloromethane	20.0	19.4	ug/L	97		CFR136A 624
	20.0	20.8	ug/L	104	6.9	CFR136A 624
Bromoform	20.0	20.1	ug/L	100		CFR136A 624
	20.0	20.1	ug/L	100	0.0	CFR136A 624
Bromomethane	20.0	18.1	ug/L	91		CFR136A 624
	20.0	17.2	ug/L	86	5.1	CFR136A 624
Carbon tetrachloride	20.0	20.6	ug/L	103		CFR136A 624
	20.0	20.7	ug/L	104	0.54	CFR136A 624
Chlorobenzene	20.0	19.9	ug/L	100		CFR136A 624
	20.0	20.0	ug/L	100	0.14	CFR136A 624
Chloroethane	20.0	20.3	ug/L	101		CFR136A 624
	20.0	18.0	ug/L	90	12	CFR136A 624
Chloroform	20.0	20.2	ug/L	101		CFR136A 624
	20.0	20.7	ug/L	103	2.0	CFR136A 624
Chloromethane	20.0	18.8	ug/L	94		CFR136A 624
	20.0	17.3	ug/L	87	8.4	CFR136A 624
Dibromochloromethane	20.0	20.1	ug/L	101		CFR136A 624
	20.0	20.3	ug/L	101	0.73	CFR136A 624
1,2-Dichlorobenzene	20.0	22.7	ug/L	113		CFR136A 624
	20.0	20.6	ug/L	103	9.6	CFR136A 624
1,3-Dichlorobenzene	20.0	21.4	ug/L	107		CFR136A 624
	20.0	20.2	ug/L	101	6.0	CFR136A 624
1,4-Dichlorobenzene	20.0	21.6	ug/L	108		CFR136A 624
	20.0	20.2	ug/L	101	6.8	CFR136A 624
1,1-Dichloroethane	20.0	21.0	ug/L	105		CFR136A 624
	20.0	20.8	ug/L	104	0.81	CFR136A 624
1,2-Dichloroethane	20.0	21.3	ug/L	107		CFR136A 624
	20.0	22.5	ug/L	113	5.5	CFR136A 624
1,1-Dichloroethene	20.0	24.3	ug/L	121		CFR136A 624
	20.0	22.4	ug/L	112	8.0	CFR136A 624
trans-1,2-Dichloroethene	20.0	21.8	ug/L	109		CFR136A 624
	20.0	21.3	ug/L	106	2.3	CFR136A 624
1,2-Dichloropropane	20.0	20.9	ug/L	105		CFR136A 624
	20.0	20.3	ug/L	101	3.0	CFR136A 624
cis-1,3-Dichloropropene	20.0	20.7	ug/L	103		CFR136A 624
	20.0	21.1	ug/L	106	2.0	CFR136A 624
trans-1,3-Dichloropropene	20.0	20.6	ug/L	103		CFR136A 624
	20.0	20.7	ug/L	103	0.50	CFR136A 624

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 Work Order #...: H84J01AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6G120000-438 H84J01AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	**20.0**	**21.7**	**ug/L**	**108**		**CFR136A 624**
	20.0	**20.3**	**ug/L**	**102**	**6.6**	**CFR136A 624**
Methylene chloride	**20.0**	**21.6**	**ug/L**	**108**		**CFR136A 624**
	20.0	**19.9**	**ug/L**	**99**	**8.3**	**CFR136A 624**
1,1,2,2-Tetrachloroethane	**20.0**	**21.4**	**ug/L**	**107**		**CFR136A 624**
	20.0	**22.5**	**ug/L**	**112**	**4.7**	**CFR136A 624**
Tetrachloroethene	**20.0**	**20.0**	**ug/L**	**100**		**CFR136A 624**
	20.0	**20.3**	**ug/L**	**102**	**1.6**	**CFR136A 624**
Toluene	**20.0**	**20.5**	**ug/L**	**103**		**CFR136A 624**
	20.0	**19.3**	**ug/L**	**97**	**5.8**	**CFR136A 624**
1,1,1-Trichloroethane	**20.0**	**20.5**	**ug/L**	**103**		**CFR136A 624**
	20.0	**21.0**	**ug/L**	**105**	**2.1**	**CFR136A 624**
1,1,2-Trichloroethane	**20.0**	**19.8**	**ug/L**	**99**		**CFR136A 624**
	20.0	**21.0**	**ug/L**	**105**	**5.7**	**CFR136A 624**
Trichloroethene	**20.0**	**21.1**	**ug/L**	**106**		**CFR136A 624**
	20.0	**20.4**	**ug/L**	**102**	**3.5**	**CFR136A 624**
Trichlorofluoromethane	**20.0**	**19.4**	**ug/L**	**97**		**CFR136A 624**
	20.0	**18.8**	**ug/L**	**94**	**3.4**	**CFR136A 624**
Vinyl chloride	**20.0**	**19.0**	**ug/L**	**95**		**CFR136A 624**
	20.0	**17.4**	**ug/L**	**87**	**8.8**	**CFR136A 624**
2-Chloroethyl vinyl ether	**20.0**	**19.5**	**ug/L**	**98**		**CFR136A 624**
	20.0	**18.6**	**ug/L**	**93**	**5.1**	**CFR136A 624**
1,4-Dioxane	**1000**	**994**	**ug/L**	**99**		**CFR136A 624**
	1000	**1070**	**ug/L**	**107**	**7.1**	**CFR136A 624**
Acetone	**40.0**	**33.5**	**ug/L**	**84**		**CFR136A 624**
	40.0	**38.7**	**ug/L**	**97**	**14**	**CFR136A 624**
1,3-Dichloropropene (total)	**40.0**	**41.3**	**ug/L**	**103**		**CFR136A 624**
	40.0	**41.8**	**ug/L**	**104**	**1.3**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	98	(73 - 122)
	104	(73 - 122)
4-Bromofluorobenzene	91	(79 - 119)
	90	(79 - 119)
Toluene-d8	93	(80 - 120)
	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 #...: D6F290294 Work Order #...: H8ELG1A0-MS Matrix.....: WATER
MS Lot-Sample #: D6F280315-001 H8ELG1A1-MSD
Date Sampled...: 06/28/06 09:09 Date Received..: 06/28/06
Prep Date.....: 07/07/06 Analysis Date..: 07/07/06
Prep Batch #...: 6188464 Analysis Time..: 14:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	94	(80 - 120)			CFR136A 624
	88	(80 - 120)	5.8	(0-30)	CFR136A 624
Bromodichloromethane	98	(76 - 122)			CFR136A 624
	92	(76 - 122)	6.3	(0-30)	CFR136A 624
Bromoform	99	(68 - 130)			CFR136A 624
	96	(68 - 130)	3.4	(0-30)	CFR136A 624
Bromomethane	55	(49 - 151)			CFR136A 624
	51	(49 - 151)	8.5	(0-30)	CFR136A 624
Carbon tetrachloride	93	(72 - 130)			CFR136A 624
	89	(72 - 130)	4.2	(0-30)	CFR136A 624
Chlorobenzene	97	(78 - 125)			CFR136A 624
	92	(78 - 125)	5.2	(0-30)	CFR136A 624
Chloroethane	63	(58 - 150)			CFR136A 624
	59	(58 - 150)	6.5	(0-30)	CFR136A 624
Chloroform	101	(78 - 122)			CFR136A 624
	93	(78 - 122)	7.4	(0-30)	CFR136A 624
Chloromethane	54	(46 - 162)			CFR136A 624
	50	(46 - 162)	6.3	(0-30)	CFR136A 624
Dibromochloromethane	97	(76 - 123)			CFR136A 624
	93	(76 - 123)	4.5	(0-30)	CFR136A 624
1,2-Dichlorobenzene	99	(75 - 128)			CFR136A 624
	94	(75 - 128)	5.1	(0-30)	CFR136A 624
1,3-Dichlorobenzene	94	(77 - 128)			CFR136A 624
	93	(77 - 128)	0.85	(0-30)	CFR136A 624
1,4-Dichlorobenzene	94	(76 - 126)			CFR136A 624
	92	(76 - 126)	2.0	(0-30)	CFR136A 624
1,1-Dichloroethane	101	(77 - 121)			CFR136A 624
	90	(77 - 121)	12	(0-30)	CFR136A 624
1,2-Dichloroethane	100	(75 - 121)			CFR136A 624
	94	(75 - 121)	6.1	(0-30)	CFR136A 624
1,1-Dichloroethene	106	(63 - 137)			CFR136A 624
	95	(63 - 137)	10	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	91	(73 - 127)			CFR136A 624
	89	(73 - 127)	2.6	(0-30)	CFR136A 624
1,2-Dichloropropane	102	(79 - 123)			CFR136A 624
	98	(79 - 123)	3.8	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	96	(76 - 119)			CFR136A 624
	97	(76 - 119)	0.47	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	100	(68 - 126)			CFR136A 624
	99	(68 - 126)	1.4	(0-30)	CFR136A 624

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8ELG1A0-MS **Matrix.....:** WATER
MS Lot-Sample #: D6F280315-001 H8ELG1A1-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	92	(74 - 131)			**CFR136A 624**
	85	(74 - 131)	7.5	(0-30)	**CFR136A 624**
Methylene chloride	90	(73 - 120)			**CFR136A 624**
	83	(73 - 120)	7.3	(0-30)	**CFR136A 624**
1,1,2,2-Tetrachloroethane	106	(63 - 133)			**CFR136A 624**
	104	(63 - 133)	1.6	(0-30)	**CFR136A 624**
Tetrachloroethene	89	(77 - 130)			**CFR136A 624**
	85	(77 - 130)	5.0	(0-30)	**CFR136A 624**
Toluene	95	(73 - 129)			**CFR136A 624**
	88	(73 - 129)	8.2	(0-30)	**CFR136A 624**
1,1,1-Trichloroethane	97	(73 - 129)			**CFR136A 624**
	92	(73 - 129)	5.1	(0-30)	**CFR136A 624**
1,1,2-Trichloroethane	107	(74 - 127)			**CFR136A 624**
	97	(74 - 127)	9.0	(0-30)	**CFR136A 624**
Trichloroethene	96	(79 - 123)			**CFR136A 624**
	89	(79 - 123)	7.1	(0-30)	**CFR136A 624**
Trichlorofluoromethane	73	(59 - 145)			**CFR136A 624**
	67	(59 - 145)	9.1	(0-30)	**CFR136A 624**
Vinyl chloride	60	(55 - 144)			**CFR136A 624**
	54 a	(55 - 144)	9.9	(0-30)	**CFR136A 624**
1,4-Dioxane	90	(25 - 141)			**CFR136A 624**
	82	(25 - 141)	9.3	(0-20)	**CFR136A 624**
Acetone	73	(42 - 170)			**CFR136A 624**
	64	(42 - 170)	9.6	(0-20)	**CFR136A 624**
1,3-Dichloropropene (total)	98	(75 - 119)			**CFR136A 624**
	98	(75 - 119)	0.50	(0-20)	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	124 *	(73 - 122)
	99	(73 - 122)
4-Bromofluorobenzene	114	(79 - 119)
	97	(79 - 119)
Toluene-d8	114	(80 - 120)
	97	(80 - 120)

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.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 Work Order #...: H8ELG1A0-MS Matrix.....: WATER
MS Lot-Sample #: D6F280315-001 H8ELG1A1-MSD
Date Sampled...: 06/28/06 09:09 Date Received..: 06/28/06
Prep Date.....: 07/07/06 Analysis Date..: 07/07/06
Prep Batch #...: 6188464 Analysis Time..: 14:38
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	20.0	18.7	ug/L	94		CFR136A 624
	ND	20.0	17.7	ug/L	88	5.8	CFR136A 624
Bromodichloromethane	ND	20.0	19.6	ug/L	98		CFR136A 624
	ND	20.0	18.4	ug/L	92	6.3	CFR136A 624
Bromoform	ND	20.0	19.9	ug/L	99		CFR136A 624
	ND	20.0	19.2	ug/L	96	3.4	CFR136A 624
Bromomethane	ND	20.0	11.1	ug/L	55		CFR136A 624
	ND	20.0	10.2	ug/L	51	8.5	CFR136A 624
Carbon tetrachloride	ND	20.0	18.5	ug/L	93		CFR136A 624
	ND	20.0	17.8	ug/L	89	4.2	CFR136A 624
Chlorobenzene	ND	20.0	19.5	ug/L	97		CFR136A 624
	ND	20.0	18.5	ug/L	92	5.2	CFR136A 624
Chloroethane	ND	20.0	12.7	ug/L	63		CFR136A 624
	ND	20.0	11.9	ug/L	59	6.5	CFR136A 624
Chloroform	1.0	20.0	21.2	ug/L	101		CFR136A 624
	1.0	20.0	19.7	ug/L	93	7.4	CFR136A 624
Chloromethane	ND	20.0	10.7	ug/L	54		CFR136A 624
	ND	20.0	10.1	ug/L	50	6.3	CFR136A 624
Dibromochloromethane	ND	20.0	19.4	ug/L	97		CFR136A 624
	ND	20.0	18.5	ug/L	93	4.5	CFR136A 624
1,2-Dichlorobenzene	ND	20.0	19.7	ug/L	99		CFR136A 624
	ND	20.0	18.7	ug/L	94	5.1	CFR136A 624
1,3-Dichlorobenzene	ND	20.0	18.8	ug/L	94		CFR136A 624
	ND	20.0	18.6	ug/L	93	0.85	CFR136A 624
1,4-Dichlorobenzene	ND	20.0	18.8	ug/L	94		CFR136A 624
	ND	20.0	18.5	ug/L	92	2.0	CFR136A 624
1,1-Dichloroethane	ND	20.0	20.3	ug/L	101		CFR136A 624
	ND	20.0	18.0	ug/L	90	12	CFR136A 624
1,2-Dichloroethane	ND	20.0	20.0	ug/L	100		CFR136A 624
	ND	20.0	18.8	ug/L	94	6.1	CFR136A 624
1,1-Dichloroethene	ND	20.0	21.1	ug/L	106		CFR136A 624
	ND	20.0	19.1	ug/L	95	10	CFR136A 624
trans-1,2-Dichloroethene	ND	20.0	18.2	ug/L	91		CFR136A 624
	ND	20.0	17.7	ug/L	89	2.6	CFR136A 624
1,2-Dichloropropane	ND	20.0	20.3	ug/L	102		CFR136A 624
	ND	20.0	19.6	ug/L	98	3.8	CFR136A 624
cis-1,3-Dichloropropene	ND	20.0	19.2	ug/L	96		CFR136A 624
	ND	20.0	19.3	ug/L	97	0.47	CFR136A 624
trans-1,3-Dichloropropene	ND	20.0	20.1	ug/L	100		CFR136A 624
	ND	20.0	19.8	ug/L	99	1.4	CFR136A 624

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8ELG1A0-MS **Matrix.....:** WATER
MS Lot-Sample #: D6F280315-001 H8ELG1A1-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	**ND**	20.0	18.4	ug/L	92		CFR136A 624
	ND	20.0	17.1	ug/L	85	7.5	CFR136A 624
Methylene chloride	1.1	20.0	19.0	ug/L	90		CFR136A 624
	1.1	20.0	17.7	ug/L	83	7.3	CFR136A 624
1,1,2,2-Tetrachloroethane	ND	20.0	21.2	ug/L	106		CFR136A 624
	ND	20.0	20.8	ug/L	104	1.6	CFR136A 624
Tetrachloroethene	ND	20.0	17.8	ug/L	89		CFR136A 624
	ND	20.0	16.9	ug/L	85	5.0	CFR136A 624
Toluene	ND	20.0	19.0	ug/L	95		CFR136A 624
	ND	20.0	17.5	ug/L	88	8.2	CFR136A 624
1,1,1-Trichloroethane	ND	20.0	19.4	ug/L	97		CFR136A 624
	ND	20.0	18.4	ug/L	92	5.1	CFR136A 624
1,1,2-Trichloroethane	ND	20.0	21.3	ug/L	107		CFR136A 624
	ND	20.0	19.5	ug/L	97	9.0	CFR136A 624
Trichloroethene	ND	20.0	19.2	ug/L	96		CFR136A 624
	ND	20.0	17.9	ug/L	89	7.1	CFR136A 624
Trichlorofluoromethane	ND	20.0	14.7	ug/L	73		CFR136A 624
	ND	20.0	13.4	ug/L	67	9.1	CFR136A 624
Vinyl chloride	ND	20.0	12.0	ug/L	60		CFR136A 624
	ND	20.0	10.9	ug/L	54 a	9.9	CFR136A 624
1,4-Dioxane	ND	1000	899	ug/L	90		CFR136A 624
	ND	1000	820	ug/L	82	9.3	CFR136A 624
Acetone	11	40.0	40.1	ug/L	73		CFR136A 624
	11	40.0	36.4	ug/L	64	9.6	CFR136A 624
1,3-Dichloropropene (total)	ND	40.0	39.3	ug/L	98		CFR136A 624
	ND	40.0	39.1	ug/L	98	0.50	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	124 *	(73 - 122)
	99	(73 - 122)
4-Bromofluorobenzene	114	(79 - 119)
	97	(79 - 119)
Toluene-d8	114	(80 - 120)
	97	(80 - 120)

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.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 Work Order #...: H8PK01CR-MS Matrix.....: WATER
MS Lot-Sample #: D6G050216-001 H8PK01CT-MSD
Date Sampled...: 07/05/06 09:17 Date Received..: 07/05/06
Prep Date.....: 07/11/06 Analysis Date..: 07/11/06
Prep Batch #...: 6193438 Analysis Time..: 15:14
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	111	(80 - 120)			CFR136A 624
	94	(80 - 120)	17	(0-30)	CFR136A 624
Bromodichloromethane	107	(76 - 122)			CFR136A 624
	99	(76 - 122)	8.6	(0-30)	CFR136A 624
Bromoform	110	(68 - 130)			CFR136A 624
	104	(68 - 130)	5.0	(0-30)	CFR136A 624
Bromomethane	84	(49 - 151)			CFR136A 624
	81	(49 - 151)	3.4	(0-30)	CFR136A 624
Carbon tetrachloride	109	(72 - 130)			CFR136A 624
	98	(72 - 130)	11	(0-30)	CFR136A 624
Chlorobenzene	101	(78 - 125)			CFR136A 624
	92	(78 - 125)	9.4	(0-30)	CFR136A 624
Chloroethane	90	(58 - 150)			CFR136A 624
	87	(58 - 150)	2.8	(0-30)	CFR136A 624
Chloroform	111	(78 - 122)			CFR136A 624
	98	(78 - 122)	12	(0-30)	CFR136A 624
Chloromethane	85	(46 - 162)			CFR136A 624
	84	(46 - 162)	1.0	(0-30)	CFR136A 624
Dibromochloromethane	107	(76 - 123)			CFR136A 624
	102	(76 - 123)	4.6	(0-30)	CFR136A 624
1,2-Dichlorobenzene	105	(75 - 128)			CFR136A 624
	100	(75 - 128)	5.0	(0-30)	CFR136A 624
1,3-Dichlorobenzene	100	(77 - 128)			CFR136A 624
	94	(77 - 128)	6.0	(0-30)	CFR136A 624
1,4-Dichlorobenzene	104	(76 - 126)			CFR136A 624
	93	(76 - 126)	11	(0-30)	CFR136A 624
1,1-Dichloroethane	108	(77 - 121)			CFR136A 624
	101	(77 - 121)	6.4	(0-30)	CFR136A 624
1,2-Dichloroethane	127 a	(75 - 121)			CFR136A 624
	107	(75 - 121)	17	(0-30)	CFR136A 624
1,1-Dichloroethene	108	(63 - 137)			CFR136A 624
	97	(63 - 137)	11	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	101	(73 - 127)			CFR136A 624
	94	(73 - 127)	7.7	(0-30)	CFR136A 624
1,2-Dichloropropane	109	(79 - 123)			CFR136A 624
	100	(79 - 123)	8.9	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	108	(76 - 119)			CFR136A 624
	95	(76 - 119)	13	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	110	(68 - 126)			CFR136A 624
	96	(68 - 126)	13	(0-30)	CFR136A 624

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PK01CR-MS **Matrix.....:** WATER
MS Lot-Sample #: D6G050216-001 H8PK01CT-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	**98**	**(74 - 131)**			**CFR136A 624**
	93	**(74 - 131)**	**5.5**	**(0-30)**	**CFR136A 624**
Methylene chloride	**102**	**(73 - 120)**			**CFR136A 624**
	93	**(73 - 120)**	**9.5**	**(0-30)**	**CFR136A 624**
1,1,2,2-Tetrachloroethane	**121**	**(63 - 133)**			**CFR136A 624**
	116	**(63 - 133)**	**4.4**	**(0-30)**	**CFR136A 624**
Tetrachloroethene	**92**	**(77 - 130)**			**CFR136A 624**
	89	**(77 - 130)**	**4.3**	**(0-30)**	**CFR136A 624**
Toluene	**94**	**(73 - 129)**			**CFR136A 624**
	90	**(73 - 129)**	**5.1**	**(0-30)**	**CFR136A 624**
1,1,1-Trichloroethane	**105**	**(73 - 129)**			**CFR136A 624**
	100	**(73 - 129)**	**5.3**	**(0-30)**	**CFR136A 624**
1,1,2-Trichloroethane	**113**	**(74 - 127)**			**CFR136A 624**
	104	**(74 - 127)**	**7.8**	**(0-30)**	**CFR136A 624**
Trichloroethene	**101**	**(79 - 123)**			**CFR136A 624**
	95	**(79 - 123)**	**6.6**	**(0-30)**	**CFR136A 624**
Trichlorofluoromethane	**94**	**(59 - 145)**			**CFR136A 624**
	88	**(59 - 145)**	**6.9**	**(0-30)**	**CFR136A 624**
Vinyl chloride	**85**	**(55 - 144)**			**CFR136A 624**
	80	**(55 - 144)**	**5.8**	**(0-30)**	**CFR136A 624**
2-Chloroethyl vinyl ether	**0.0 a**	**(51 - 134)**			**CFR136A 624**
	0.0 a	**(51 - 134)**	**0.0**	**(0-45)**	**CFR136A 624**
1,4-Dioxane	**113**	**(25 - 141)**			**CFR136A 624**
	103	**(25 - 141)**	**9.8**	**(0-20)**	**CFR136A 624**
Acetone	**47**	**(42 - 170)**			**CFR136A 624**
	58	**(42 - 170)**	**11**	**(0-20)**	**CFR136A 624**
1,3-Dichloropropene (total)	**109**	**(75 - 119)**			**CFR136A 624**
	96	**(75 - 119)**	**13**	**(0-20)**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	125 *	(73 - 122)
	117	(73 - 122)
4-Bromofluorobenzene	103	(79 - 119)
	100	(79 - 119)
Toluene-d8	100	(80 - 120)
	97	(80 - 120)

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.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 Work Order #...: H8PK01CR-MS Matrix.....: WATER
MS Lot-Sample #: D6G050216-001 H8PK01CT-MSD
Date Sampled...: 07/05/06 09:17 Date Received..: 07/05/06
Prep Date.....: 07/11/06 Analysis Date..: 07/11/06
Prep Batch #...: 6193438 Analysis Time..: 15:14
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	20.0	22.1	ug/L	111		CFR136A 624
	ND	20.0	18.8	ug/L	94	17	CFR136A 624
Bromodichloromethane	ND	20.0	21.5	ug/L	107		CFR136A 624
	ND	20.0	19.7	ug/L	99	8.6	CFR136A 624
Bromoform	ND	20.0	21.9	ug/L	110		CFR136A 624
	ND	20.0	20.9	ug/L	104	5.0	CFR136A 624
Bromomethane	ND	20.0	16.8	ug/L	84		CFR136A 624
	ND	20.0	16.3	ug/L	81	3.4	CFR136A 624
Carbon tetrachloride	ND	20.0	21.8	ug/L	109		CFR136A 624
	ND	20.0	19.6	ug/L	98	11	CFR136A 624
Chlorobenzene	ND	20.0	20.2	ug/L	101		CFR136A 624
	ND	20.0	18.3	ug/L	92	9.4	CFR136A 624
Chloroethane	ND	20.0	17.9	ug/L	90		CFR136A 624
	ND	20.0	17.4	ug/L	87	2.8	CFR136A 624
Chloroform	1.4	20.0	23.5	ug/L	111		CFR136A 624
	1.4	20.0	20.9	ug/L	98	12	CFR136A 624
Chloromethane	ND	20.0	17.0	ug/L	85		CFR136A 624
	ND	20.0	16.8	ug/L	84	1.0	CFR136A 624
Dibromochloromethane	ND	20.0	21.3	ug/L	107		CFR136A 624
	ND	20.0	20.4	ug/L	102	4.6	CFR136A 624
1,2-Dichlorobenzene	ND	20.0	21.0	ug/L	105		CFR136A 624
	ND	20.0	20.0	ug/L	100	5.0	CFR136A 624
1,3-Dichlorobenzene	ND	20.0	19.9	ug/L	100		CFR136A 624
	ND	20.0	18.8	ug/L	94	6.0	CFR136A 624
1,4-Dichlorobenzene	ND	20.0	20.7	ug/L	104		CFR136A 624
	ND	20.0	18.6	ug/L	93	11	CFR136A 624
1,1-Dichloroethane	ND	20.0	21.5	ug/L	108		CFR136A 624
	ND	20.0	20.2	ug/L	101	6.4	CFR136A 624
1,2-Dichloroethane	ND	20.0	25.4	ug/L	127 a		CFR136A 624
	ND	20.0	21.4	ug/L	107	17	CFR136A 624
1,1-Dichloroethene	ND	20.0	21.6	ug/L	108		CFR136A 624
	ND	20.0	19.4	ug/L	97	11	CFR136A 624
trans-1,2-Dichloroethene	ND	20.0	20.3	ug/L	101		CFR136A 624
	ND	20.0	18.8	ug/L	94	7.7	CFR136A 624
1,2-Dichloropropane	ND	20.0	21.9	ug/L	109		CFR136A 624
	ND	20.0	20.0	ug/L	100	8.9	CFR136A 624
cis-1,3-Dichloropropene	ND	20.0	21.6	ug/L	108		CFR136A 624
	ND	20.0	18.9	ug/L	95	13	CFR136A 624
trans-1,3-Dichloropropene	ND	20.0	22.1	ug/L	110		CFR136A 624
	ND	20.0	19.3	ug/L	96	13	CFR136A 624

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PK01CR-MS **Matrix.....:** WATER
MS Lot-Sample #: D6G050216-001 H8PK01CT-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	**ND**	**20.0**	**19.6**	**ug/L**	**98**		**CFR136A 624**
	ND	**20.0**	**18.6**	**ug/L**	**93**	**5.5**	**CFR136A 624**
Methylene chloride	**ND**	**20.0**	**20.5**	**ug/L**	**102**		**CFR136A 624**
	ND	**20.0**	**18.6**	**ug/L**	**93**	**9.5**	**CFR136A 624**
1,1,2,2-Tetrachloroethane	**ND**	**20.0**	**24.2**	**ug/L**	**121**		**CFR136A 624**
	ND	**20.0**	**23.1**	**ug/L**	**116**	**4.4**	**CFR136A 624**
Tetrachloroethene	**ND**	**20.0**	**18.5**	**ug/L**	**92**		**CFR136A 624**
	ND	**20.0**	**17.7**	**ug/L**	**89**	**4.3**	**CFR136A 624**
Toluene	**ND**	**20.0**	**18.9**	**ug/L**	**94**		**CFR136A 624**
	ND	**20.0**	**17.9**	**ug/L**	**90**	**5.1**	**CFR136A 624**
1,1,1-Trichloroethane	**ND**	**20.0**	**21.1**	**ug/L**	**105**		**CFR136A 624**
	ND	**20.0**	**20.0**	**ug/L**	**100**	**5.3**	**CFR136A 624**
1,1,2-Trichloroethane	**ND**	**20.0**	**22.6**	**ug/L**	**113**		**CFR136A 624**
	ND	**20.0**	**20.9**	**ug/L**	**104**	**7.8**	**CFR136A 624**
Trichloroethene	**ND**	**20.0**	**20.2**	**ug/L**	**101**		**CFR136A 624**
	ND	**20.0**	**18.9**	**ug/L**	**95**	**6.6**	**CFR136A 624**
Trichlorofluoromethane	**ND**	**20.0**	**18.8**	**ug/L**	**94**		**CFR136A 624**
	ND	**20.0**	**17.5**	**ug/L**	**88**	**6.9**	**CFR136A 624**
Vinyl chloride	**ND**	**20.0**	**17.0**	**ug/L**	**85**		**CFR136A 624**
	ND	**20.0**	**16.0**	**ug/L**	**80**	**5.8**	**CFR136A 624**
2-Chloroethyl vinyl ether	**ND**	**20.0**	**0.0**	**ug/L**	**0.0 a**		**CFR136A 624**
	ND	**20.0**	**0.0**	**ug/L**	**0.0 a**	**0.0**	**CFR136A 624**
1,4-Dioxane	**ND**	**1000**	**1130**	**ug/L**	**113**		**CFR136A 624**
	ND	**1000**	**1030**	**ug/L**	**103**	**9.8**	**CFR136A 624**
Acetone	**18**	**40.0**	**37.0**	**ug/L**	**47**		**CFR136A 624**
	18	**40.0**	**41.4**	**ug/L**	**58**	**11**	**CFR136A 624**
1,3-Dichloropropene (total)	**ND**	**40.0**	**43.7**	**ug/L**	**109**		**CFR136A 624**
	ND	**40.0**	**38.2**	**ug/L**	**96**	**13**	**CFR136A 624**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	125 *	(73 - 122)
	117	(73 - 122)
4-Bromofluorobenzene	103	(79 - 119)
	100	(79 - 119)
Toluene-d8	100	(80 - 120)
	97	(80 - 120)

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.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8MMG1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6G030000-164

Prep Date.....: 06/30/06 **Analysis Time..:** 11:44
Analysis Date..: 06/30/06 **Prep Batch #...:** 6184164
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Chloroethyl vinyl ether	ND	50	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
1,2-Dichlorobenzene	**0.49 J**	**5.0**	**ug/kg**	**SW846 8260B**
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(10 - 179)
1,2-Dichloroethane-d4	84	(60 - 143)
4-Bromofluorobenzene	93	(59 - 129)
Toluene-d8	96	(68 - 134)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8MMG1AA **Matrix.....:** SOLID

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6F290294 **Work Order #...:** H8MMG1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D6G030000-164 H8MMG1AD-LCSD
Prep Date.....: 06/30/06 **Analysis Date..:** 06/30/06
Prep Batch #...: 6184164 **Analysis Time..:** 10:56
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**90**	**(76 - 116)**			**SW846 8260B**
	93	**(76 - 116)**	**3.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**103**	**(74 - 114)**			**SW846 8260B**
	97	**(74 - 114)**	**5.6**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**90**	**(77 - 143)**			**SW846 8260B**
	87	**(77 - 143)**	**3.5**	**(0-20)**	**SW846 8260B**
Toluene	**103**	**(72 - 113)**			**SW846 8260B**
	96	**(72 - 113)**	**6.5**	**(0-20)**	**SW846 8260B**
Trichloroethene	**92**	**(78 - 118)**			**SW846 8260B**
	94	**(78 - 118)**	**1.6**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
	94	(75 - 121)
1,2-Dichloroethane-d4	93	(58 - 140)
	87	(58 - 140)
4-Bromofluorobenzene	103	(76 - 127)
	97	(76 - 127)
Toluene-d8	108	(80 - 126)
	98	(80 - 126)

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 #...: D6F290294 **Work Order #...:** H8MMG1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D6G030000-164 H8MMG1AD-LCSD
Prep Date.....: 06/30/06 **Analysis Date..:** 06/30/06
Prep Batch #...: 6184164 **Analysis Time..:** 10:56
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**50.0**	**45.1**	**ug/kg**	**90**		**SW846 8260B**
	50.0	**46.6**	**ug/kg**	**93**	**3.2**	**SW846 8260B**
Chlorobenzene	**50.0**	**51.4**	**ug/kg**	**103**		**SW846 8260B**
	50.0	**48.6**	**ug/kg**	**97**	**5.6**	**SW846 8260B**
1,1-Dichloroethene	**50.0**	**45.0**	**ug/kg**	**90**		**SW846 8260B**
	50.0	**43.4**	**ug/kg**	**87**	**3.5**	**SW846 8260B**
Toluene	**50.0**	**51.5**	**ug/kg**	**103**		**SW846 8260B**
	50.0	**48.2**	**ug/kg**	**96**	**6.5**	**SW846 8260B**
Trichloroethene	**50.0**	**46.1**	**ug/kg**	**92**		**SW846 8260B**
	50.0	**46.8**	**ug/kg**	**94**	**1.6**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
	94	(75 - 121)
1,2-Dichloroethane-d4	93	(58 - 140)
	87	(58 - 140)
4-Bromofluorobenzene	103	(76 - 127)
	97	(76 - 127)
Toluene-d8	108	(80 - 126)
	98	(80 - 126)

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 #...: D6F290294 **Work Order #...:** H8DD71AM-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F280181-001 H8DD71AN-MSD
Date Sampled...: 06/26/06 14:00 **Date Received..:** 06/28/06
Prep Date.....: 06/30/06 **Analysis Date..:** 06/30/06
Prep Batch #...: 6184164 **Analysis Time..:** 13:25
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**75**	**(41 - 130)**			**SW846 8260B**
	75	**(41 - 130)**	**0.64**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**62**	**(31 - 129)**			**SW846 8260B**
	59	**(31 - 129)**	**5.6**	**(0-29)**	**SW846 8260B**
1,1-Dichloroethene	**72**	**(32 - 146)**			**SW846 8260B**
	76	**(32 - 146)**	**4.9**	**(0-30)**	**SW846 8260B**
Toluene	**76**	**(30 - 130)**			**SW846 8260B**
	74	**(30 - 130)**	**3.3**	**(0-31)**	**SW846 8260B**
Trichloroethene	**72**	**(34 - 132)**			**SW846 8260B**
	71	**(34 - 132)**	**1.3**	**(0-49)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(10 - 200)
	81	(10 - 200)
1,2-Dichloroethane-d4	90	(66 - 161)
	97	(66 - 161)
4-Bromofluorobenzene	76	(65 - 161)
	76	(65 - 161)
Toluene-d8	104	(84 - 124)
	108	(84 - 124)

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 #...: D6F290294 **Work Order #...:** H8DD71AM-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F280181-001 H8DD71AN-MSD
Date Sampled...: 06/26/06 14:00 **Date Received..:** 06/28/06
Prep Date.....: 06/30/06 **Analysis Date..:** 06/30/06
Prep Batch #...: 6184164 **Analysis Time..:** 13:25
Dilution Factor: 5

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	3.7	250	190	ug/kg	75		SW846 8260B
	3.7	250	192	ug/kg	75	0.64	SW846 8260B
Chlorobenzene	ND	250	156	ug/kg	62		SW846 8260B
	ND	250	147	ug/kg	59	5.6	SW846 8260B
1,1-Dichloroethene	ND	250	181	ug/kg	72		SW846 8260B
	ND	250	190	ug/kg	76	4.9	SW846 8260B
Toluene	6.5	250	197	ug/kg	76		SW846 8260B
	6.5	250	191	ug/kg	74	3.3	SW846 8260B
Trichloroethene	ND	250	181	ug/kg	72		SW846 8260B
	ND	250	178	ug/kg	71	1.3	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	74	(10 - 200)
	81	(10 - 200)
1,2-Dichloroethane-d4	90	(66 - 161)
	97	(66 - 161)
4-Bromofluorobenzene	76	(65 - 161)
	76	(65 - 161)
Toluene-d8	104	(84 - 124)
	108	(84 - 124)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H2V1AA **Matrix.....:** WATER
MB Lot-Sample #: D6F300000-196

Prep Date.....: 06/30/06 **Analysis Time..:** 04:07
Analysis Date..: 07/04/06 **Prep Batch #...:** 6181196
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	CFR136A 625
Acenaphthylene	ND	10	ug/L	CFR136A 625
Anthracene	ND	10	ug/L	CFR136A 625
Benzo(a)anthracene	ND	10	ug/L	CFR136A 625
Benzo(a)pyrene	ND	10	ug/L	CFR136A 625
Benzo(b)fluoranthene	ND	10	ug/L	CFR136A 625
Benzo(ghi)perylene	ND	10	ug/L	CFR136A 625
Benzo(k)fluoranthene	ND	10	ug/L	CFR136A 625
4-Bromophenyl phenyl ether	ND	10	ug/L	CFR136A 625
Butyl benzyl phthalate	ND	20	ug/L	CFR136A 625
bis(2-Chloroethoxy) methane	ND	10	ug/L	CFR136A 625
bis(2-Chloroethyl)-ether	ND	10	ug/L	CFR136A 625
bis(2-Chloroisopropyl) ether	ND	10	ug/L	CFR136A 625
4-Chloro-3-methylphenol	ND	20	ug/L	CFR136A 625
2-Chloronaphthalene	ND	10	ug/L	CFR136A 625
2-Chlorophenol	ND	10	ug/L	CFR136A 625
4-Chlorophenyl phenyl ether	ND	10	ug/L	CFR136A 625
Chrysene	ND	10	ug/L	CFR136A 625
Dibenz(a,h)anthracene	ND	10	ug/L	CFR136A 625
Di-n-butyl phthalate	ND	20	ug/L	CFR136A 625
1,2-Dichlorobenzene	ND	10	ug/L	CFR136A 625
1,3-Dichlorobenzene	ND	10	ug/L	CFR136A 625
1,4-Dichlorobenzene	ND	10	ug/L	CFR136A 625
3,3'-Dichlorobenzidine	ND	50	ug/L	CFR136A 625
2,4-Dichlorophenol	ND	10	ug/L	CFR136A 625
Diethyl phthalate	ND	20	ug/L	CFR136A 625
2,4-Dimethylphenol	ND	10	ug/L	CFR136A 625
Dimethyl phthalate	ND	20	ug/L	CFR136A 625
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	CFR136A 625
2,4-Dinitrophenol	ND	60	ug/L	CFR136A 625
2,4-Dinitrotoluene	ND	20	ug/L	CFR136A 625
2,6-Dinitrotoluene	ND	20	ug/L	CFR136A 625
Di-n-octyl phthalate	ND	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	CFR136A 625

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H2V1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluoranthene	ND	20	ug/L	CFR136A 625
Fluorene	ND	10	ug/L	CFR136A 625
Hexachlorobenzene	ND	10	ug/L	CFR136A 625
Hexachlorobutadiene	ND	10	ug/L	CFR136A 625
Hexachloroethane	ND	10	ug/L	CFR136A 625
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	CFR136A 625
Isophorone	ND	10	ug/L	CFR136A 625
Naphthalene	ND	10	ug/L	CFR136A 625
Nitrobenzene	ND	20	ug/L	CFR136A 625
2-Nitrophenol	ND	20	ug/L	CFR136A 625
4-Nitrophenol	ND	50	ug/L	CFR136A 625
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	CFR136A 625
Pentachlorophenol	ND	60	ug/L	CFR136A 625
Phenanthrene	ND	10	ug/L	CFR136A 625
Phenol	ND	10	ug/L	CFR136A 625
Pyrene	ND	10	ug/L	CFR136A 625
1,2,4-Trichloro-benzene	ND	10	ug/L	CFR136A 625
2,4,6-Trichloro-phenol	ND	20	ug/L	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(53 - 120)
Phenol-d5	75	(57 - 120)
Nitrobenzene-d5	70	(59 - 120)
2-Fluorobiphenyl	61	(49 - 120)
2,4,6-Tribromophenol	71	(50 - 120)
Terphenyl-d14	73	(63 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294
LCS Lot-Sample#: D6F300000-196
Prep Date.....: 06/30/06
Prep Batch #...: 6181196
Dilution Factor: 1

Work Order #...: H8H2V1AC-LCS
H8H2V1AD-LCSD
Analysis Date..: 07/03/06
Analysis Time..: 22:41

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	80	(58 - 120)			CFR136A 625
	74	(58 - 120)	8.1	(0-30)	CFR136A 625
Acenaphthylene	80	(58 - 120)			CFR136A 625
	75	(58 - 120)	6.6	(0-30)	CFR136A 625
Anthracene	84	(62 - 120)			CFR136A 625
	76	(62 - 120)	10	(0-30)	CFR136A 625
Benzo(a)anthracene	84	(60 - 120)			CFR136A 625
	76	(60 - 120)	10	(0-30)	CFR136A 625
Benzo(a)pyrene	79	(58 - 120)			CFR136A 625
	73	(58 - 120)	7.8	(0-73)	CFR136A 625
Benzo(b)fluoranthene	88	(55 - 120)			CFR136A 625
	75	(55 - 120)	15	(0-90)	CFR136A 625
Benzo(ghi)perylene	85	(52 - 120)			CFR136A 625
	79	(52 - 120)	6.4	(0-64)	CFR136A 625
Benzo(k)fluoranthene	75	(57 - 120)			CFR136A 625
	78	(57 - 120)	3.8	(0-50)	CFR136A 625
4-Bromophenyl phenyl ether	80	(61 - 120)			CFR136A 625
	74	(61 - 120)	7.6	(0-34)	CFR136A 625
Butyl benzyl phthalate	99	(60 - 120)			CFR136A 625
	90	(60 - 120)	9.2	(0-30)	CFR136A 625
bis(2-Chloroethoxy) methane	78	(56 - 120)			CFR136A 625
	72	(56 - 120)	7.4	(0-30)	CFR136A 625
bis(2-Chloroethyl)-ether	82	(55 - 120)			CFR136A 625
	77	(55 - 120)	6.3	(0-30)	CFR136A 625
bis(2-Chloroisopropyl) ether	69	(57 - 120)			CFR136A 625
	64	(57 - 120)	7.4	(0-30)	CFR136A 625
4-Chloro-3-methylphenol	80	(63 - 120)			CFR136A 625
	75	(63 - 120)	6.1	(0-30)	CFR136A 625
2-Chloronaphthalene	78	(60 - 118)			CFR136A 625
	72	(60 - 118)	7.7	(0-30)	CFR136A 625
2-Chlorophenol	82	(57 - 120)			CFR136A 625
	75	(57 - 120)	9.0	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 Work Order #...: H8H2V1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorophenyl phenyl ether	80	(60 - 120)			CFR136A 625
	74	(60 - 120)	7.6	(0-30)	CFR136A 625
Chrysene	81	(60 - 120)			CFR136A 625
	73	(60 - 120)	10	(0-30)	CFR136A 625
Dibenz(a,h)anthracene	87	(58 - 120)			CFR136A 625
	81	(58 - 120)	7.1	(0-78)	CFR136A 625
Di-n-butyl phthalate	92	(62 - 118)			CFR136A 625
	84	(62 - 118)	9.0	(0-30)	CFR136A 625
1,2-Dichlorobenzene	73	(48 - 120)			CFR136A 625
	68	(48 - 120)	7.3	(0-42)	CFR136A 625
1,3-Dichlorobenzene	69	(45 - 120)			CFR136A 625
	65	(45 - 120)	6.4	(0-47)	CFR136A 625
1,4-Dichlorobenzene	67	(45 - 120)			CFR136A 625
	65	(45 - 120)	3.9	(0-49)	CFR136A 625
3,3'-Dichlorobenzidine	67	(34 - 120)			CFR136A 625
	69	(34 - 120)	2.0	(0-50)	CFR136A 625
2,4-Dichlorophenol	81	(60 - 120)			CFR136A 625
	75	(60 - 120)	7.4	(0-30)	CFR136A 625
Diethyl phthalate	83	(61 - 114)			CFR136A 625
	78	(61 - 114)	7.1	(0-30)	CFR136A 625
2,4-Dimethylphenol	34 a	(44 - 119)			CFR136A 625
	54 p	(44 - 119)	45	(0-35)	CFR136A 625
Dimethyl phthalate	81	(61 - 112)			CFR136A 625
	75	(61 - 112)	7.5	(0-30)	CFR136A 625
2-Methyl-4,6-dinitro-phenol	84	(41 - 120)			CFR136A 625
	77	(41 - 120)	8.6	(0-55)	CFR136A 625
2,4-Dinitrophenol	87	(36 - 121)			CFR136A 625
	83	(36 - 121)	5.4	(0-61)	CFR136A 625
2,4-Dinitrotoluene	89	(60 - 120)			CFR136A 625
	80	(60 - 120)	11	(0-35)	CFR136A 625
2,6-Dinitrotoluene	82	(61 - 120)			CFR136A 625
	75	(61 - 120)	9.0	(0-30)	CFR136A 625
Di-n-octyl phthalate	101	(59 - 120)			CFR136A 625
	92	(59 - 120)	9.6	(0-30)	CFR136A 625
bis(2-Ethylhexyl) phthalate	98	(58 - 120)			CFR136A 625
	89	(58 - 120)	9.5	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 Work Order #...: H8H2V1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Fluoranthene	89	(59 - 120)			CFR136A 625
	80	(59 - 120)	10	(0-30)	CFR136A 625
Fluorene	82	(60 - 120)			CFR136A 625
	77	(60 - 120)	6.9	(0-30)	CFR136A 625
Hexachlorobenzene	81	(62 - 120)			CFR136A 625
	73	(62 - 120)	9.5	(0-30)	CFR136A 625
Hexachlorobutadiene	66	(49 - 116)			CFR136A 625
	63	(49 - 116)	5.2	(0-41)	CFR136A 625
Hexachloroethane	64	(43 - 113)			CFR136A 625
	60	(43 - 113)	6.0	(0-52)	CFR136A 625
Indeno(1,2,3-cd)pyrene	87	(56 - 120)			CFR136A 625
	80	(56 - 120)	7.8	(0-73)	CFR136A 625
Isophorone	84	(54 - 120)			CFR136A 625
	77	(54 - 120)	8.2	(0-30)	CFR136A 625
Naphthalene	76	(52 - 120)			CFR136A 625
	73	(52 - 120)	4.2	(0-30)	CFR136A 625
Nitrobenzene	77	(58 - 120)			CFR136A 625
	73	(58 - 120)	5.8	(0-30)	CFR136A 625
2-Nitrophenol	88	(59 - 120)			CFR136A 625
	83	(59 - 120)	5.4	(0-30)	CFR136A 625
4-Nitrophenol	79	(53 - 120)			CFR136A 625
	71	(53 - 120)	11	(0-42)	CFR136A 625
N-Nitrosodi-n-propyl-amine	79	(58 - 120)			CFR136A 625
	75	(58 - 120)	6.3	(0-30)	CFR136A 625
Pentachlorophenol	95	(49 - 120)			CFR136A 625
	86	(49 - 120)	10	(0-30)	CFR136A 625
Phenanthrene	84	(63 - 120)			CFR136A 625
	77	(63 - 120)	8.8	(0-30)	CFR136A 625
Phenol	82	(58 - 112)			CFR136A 625
	76	(58 - 112)	7.4	(0-30)	CFR136A 625
Pyrene	82	(60 - 115)			CFR136A 625
	75	(60 - 115)	8.5	(0-30)	CFR136A 625
1,2,4-Trichloro-benzene	71	(50 - 120)			CFR136A 625
	69	(50 - 120)	3.2	(0-35)	CFR136A 625
2,4,6-Trichloro-phenol	83	(60 - 120)			CFR136A 625
	75	(60 - 120)	9.1	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H2V1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzidine	**56**	**(10 - 218)**			**CFR136A 625**
	46	**(10 - 218)**	**19**	**(0-50)**	**CFR136A 625**
Hexachlorocyclopenta-diene	**37**	**(10 - 120)**			**CFR136A 625**
	22	**(10 - 120)**	**49**	**(0-82)**	**CFR136A 625**
N-Nitrosodimethylamine	**76**	**(52 - 120)**			**CFR136A 625**
	70	**(52 - 120)**	**7.6**	**(0-30)**	**CFR136A 625**
N-Nitrosodiphenylamine	**66**	**(10 - 203)**			**CFR136A 625**
	64	**(10 - 203)**	**4.0**	**(0-50)**	**CFR136A 625**
4-Methylphenol	**79**	**(58 - 120)**			**CFR136A 625**
	77	**(58 - 120)**	**3.6**	**(0-39)**	**CFR136A 625**
2-Methylphenol	**80**	**(56 - 120)**			**CFR136A 625**
	76	**(56 - 120)**	**5.4**	**(0-35)**	**CFR136A 625**
n-Decane	**56**	**(28 - 120)**			**CFR136A 625**
	57	**(28 - 120)**	**1.5**	**(0-61)**	**CFR136A 625**
2-Methylnaphthalene	**84**	**(57 - 120)**			**CFR136A 625**
	79	**(57 - 120)**	**5.9**	**(0-30)**	**CFR136A 625**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(53 - 120)
	75	(53 - 120)
Phenol-d5	82	(57 - 120)
	78	(57 - 120)
Nitrobenzene-d5	79	(59 - 120)
	75	(59 - 120)
2-Fluorobiphenyl	76	(49 - 120)
	72	(49 - 120)
2,4,6-Tribromophenol	88	(50 - 120)
	80	(50 - 120)
Terphenyl-d14	80	(63 - 120)
	74	(63 - 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.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294
LCS Lot-Sample#: D6F300000-196
Prep Date.....: 06/30/06
Prep Batch #...: 6181196
Dilution Factor: 1

Work Order #...: H8H2V1AC-LCS
H8H2V1AD-LCSD
Analysis Date..: 07/03/06
Analysis Time..: 22:41

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	80.3	ug/L	80		CFR136A 625
	100	74.0	ug/L	74	8.1	CFR136A 625
Acenaphthylene	100	80.4	ug/L	80		CFR136A 625
	100	75.2	ug/L	75	6.6	CFR136A 625
Anthracene	100	83.7	ug/L	84		CFR136A 625
	100	75.5	ug/L	76	10	CFR136A 625
Benzo(a)anthracene	100	83.9	ug/L	84		CFR136A 625
	100	75.8	ug/L	76	10	CFR136A 625
Benzo(a)pyrene	100	79.3	ug/L	79		CFR136A 625
	100	73.3	ug/L	73	7.8	CFR136A 625
Benzo(b)fluoranthene	100	87.6	ug/L	88		CFR136A 625
	100	75.4	ug/L	75	15	CFR136A 625
Benzo(ghi)perylene	100	84.7	ug/L	85		CFR136A 625
	100	79.4	ug/L	79	6.4	CFR136A 625
Benzo(k)fluoranthene	100	75.4	ug/L	75		CFR136A 625
	100	78.3	ug/L	78	3.8	CFR136A 625
4-Bromophenyl phenyl ether	100	80.1	ug/L	80		CFR136A 625
	100	74.2	ug/L	74	7.6	CFR136A 625
Butyl benzyl phthalate	100	99.1	ug/L	99		CFR136A 625
	100	90.4	ug/L	90	9.2	CFR136A 625
bis(2-Chloroethoxy) methane	100	77.6	ug/L	78		CFR136A 625
	100	72.0	ug/L	72	7.4	CFR136A 625
bis(2-Chloroethyl)-ether	100	81.8	ug/L	82		CFR136A 625
	100	76.8	ug/L	77	6.3	CFR136A 625
bis(2-Chloroisopropyl) ether	100	68.7	ug/L	69		CFR136A 625
	100	63.8	ug/L	64	7.4	CFR136A 625
4-Chloro-3-methylphenol	100	80.1	ug/L	80		CFR136A 625
	100	75.4	ug/L	75	6.1	CFR136A 625
2-Chloronaphthalene	100	78.2	ug/L	78		CFR136A 625
	100	72.4	ug/L	72	7.7	CFR136A 625
2-Chlorophenol	100	81.7	ug/L	82		CFR136A 625
	100	74.7	ug/L	75	9.0	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 Work Order #...: H8H2V1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorophenyl phenyl ether	100	79.7	ug/L	80		CFR136A 625
	100	73.8	ug/L	74	7.6	CFR136A 625
Chrysene	100	81.2	ug/L	81		CFR136A 625
	100	73.3	ug/L	73	10	CFR136A 625
Dibenz(a,h)anthracene	100	86.8	ug/L	87		CFR136A 625
	100	80.8	ug/L	81	7.1	CFR136A 625
Di-n-butyl phthalate	100	91.6	ug/L	92		CFR136A 625
	100	83.7	ug/L	84	9.0	CFR136A 625
1,2-Dichlorobenzene	100	72.8	ug/L	73		CFR136A 625
	100	67.7	ug/L	68	7.3	CFR136A 625
1,3-Dichlorobenzene	100	69.3	ug/L	69		CFR136A 625
	100	64.9	ug/L	65	6.4	CFR136A 625
1,4-Dichlorobenzene	100	67.1	ug/L	67		CFR136A 625
	100	64.6	ug/L	65	3.9	CFR136A 625
3,3'-Dichlorobenzidine	100	67.1	ug/L	67		CFR136A 625
	100	68.5	ug/L	69	2.0	CFR136A 625
2,4-Dichlorophenol	100	80.8	ug/L	81		CFR136A 625
	100	75.0	ug/L	75	7.4	CFR136A 625
Diethyl phthalate	100	83.3	ug/L	83		CFR136A 625
	100	77.6	ug/L	78	7.1	CFR136A 625
2,4-Dimethylphenol	100	34.0 a	ug/L	34		CFR136A 625
	100	53.9 p	ug/L	54	45	CFR136A 625
Dimethyl phthalate	100	80.9	ug/L	81		CFR136A 625
	100	75.0	ug/L	75	7.5	CFR136A 625
2-Methyl-4,6-dinitro-phenol	100	83.9	ug/L	84		CFR136A 625
	100	77.0	ug/L	77	8.6	CFR136A 625
2,4-Dinitrophenol	100	87.2	ug/L	87		CFR136A 625
	100	82.6	ug/L	83	5.4	CFR136A 625
2,4-Dinitrotoluene	100	88.9	ug/L	89		CFR136A 625
	100	79.6	ug/L	80	11	CFR136A 625
2,6-Dinitrotoluene	100	81.6	ug/L	82		CFR136A 625
	100	74.6	ug/L	75	9.0	CFR136A 625
Di-n-octyl phthalate	100	101	ug/L	101		CFR136A 625
	100	92.1	ug/L	92	9.6	CFR136A 625
bis(2-Ethylhexyl) phthalate	100	97.6	ug/L	98		CFR136A 625
	100	88.7	ug/L	89	9.5	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 Work Order #...: H8H2V1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Fluoranthene	100	88.8	ug/L	89		CFR136A 625
	100	80.0	ug/L	80	10	CFR136A 625
Fluorene	100	82.3	ug/L	82		CFR136A 625
	100	76.9	ug/L	77	6.9	CFR136A 625
Hexachlorobenzene	100	80.8	ug/L	81		CFR136A 625
	100	73.5	ug/L	73	9.5	CFR136A 625
Hexachlorobutadiene	100	66.2	ug/L	66		CFR136A 625
	100	62.9	ug/L	63	5.2	CFR136A 625
Hexachloroethane	100	64.3	ug/L	64		CFR136A 625
	100	60.5	ug/L	60	6.0	CFR136A 625
Indeno(1,2,3-cd)pyrene	100	87.0	ug/L	87		CFR136A 625
	100	80.5	ug/L	80	7.8	CFR136A 625
Isophorone	100	83.7	ug/L	84		CFR136A 625
	100	77.1	ug/L	77	8.2	CFR136A 625
Naphthalene	100	75.7	ug/L	76		CFR136A 625
	100	72.6	ug/L	73	4.2	CFR136A 625
Nitrobenzene	100	77.4	ug/L	77		CFR136A 625
	100	73.0	ug/L	73	5.8	CFR136A 625
2-Nitrophenol	100	87.8	ug/L	88		CFR136A 625
	100	83.2	ug/L	83	5.4	CFR136A 625
4-Nitrophenol	100	78.9	ug/L	79		CFR136A 625
	100	70.8	ug/L	71	11	CFR136A 625
N-Nitrosodi-n-propyl-amine	100	79.5	ug/L	79		CFR136A 625
	100	74.6	ug/L	75	6.3	CFR136A 625
Pentachlorophenol	100	94.7	ug/L	95		CFR136A 625
	100	85.7	ug/L	86	10	CFR136A 625
Phenanthrene	100	83.6	ug/L	84		CFR136A 625
	100	76.6	ug/L	77	8.8	CFR136A 625
Phenol	100	81.5	ug/L	82		CFR136A 625
	100	75.8	ug/L	76	7.4	CFR136A 625
Pyrene	100	81.7	ug/L	82		CFR136A 625
	100	75.0	ug/L	75	8.5	CFR136A 625
1,2,4-Trichloro-benzene	100	70.9	ug/L	71		CFR136A 625
	100	68.6	ug/L	69	3.2	CFR136A 625
2,4,6-Trichloro-phenol	100	82.7	ug/L	83		CFR136A 625
	100	75.5	ug/L	75	9.1	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H2V1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6F300000-196 H8H2V1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzidine	**100**	**56.4**	**ug/L**	**56**		**CFR136A 625**
	100		**ug/L**	**46**	**19**	**CFR136A 625**
Hexachlorocyclopenta-diene	**100**	**36.8**	**ug/L**	**37**		**CFR136A 625**
	100	**22.4**	**ug/L**	**22**	**49**	**CFR136A 625**
N-Nitrosodimethylamine	**100**	**75.5**	**ug/L**	**76**		**CFR136A 625**
	100	**70.0**	**ug/L**	**70**	**7.6**	**CFR136A 625**
N-Nitrosodiphenylamine	**100**	**66.2**	**ug/L**	**66**		**CFR136A 625**
	100	**63.6**	**ug/L**	**64**	**4.0**	**CFR136A 625**
4-Methylphenol	**100**	**79.4**	**ug/L**	**79**		**CFR136A 625**
	100	**76.6**	**ug/L**	**77**	**3.6**	**CFR136A 625**
2-Methylphenol	**100**	**79.8**	**ug/L**	**80**		**CFR136A 625**
	100	**75.6**	**ug/L**	**76**	**5.4**	**CFR136A 625**
n-Decane	**100**	**56.0**	**ug/L**	**56**		**CFR136A 625**
	100	**56.8**	**ug/L**	**57**	**1.5**	**CFR136A 625**
2-Methylnaphthalene	**100**	**84.0**	**ug/L**	**84**		**CFR136A 625**
	100	**79.2**	**ug/L**	**79**	**5.9**	**CFR136A 625**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(53 - 120)
	75	(53 - 120)
Phenol-d5	82	(57 - 120)
	78	(57 - 120)
Nitrobenzene-d5	79	(59 - 120)
	75	(59 - 120)
2-Fluorobiphenyl	76	(49 - 120)
	72	(49 - 120)
2,4,6-Tribromophenol	88	(50 - 120)
	80	(50 - 120)
Terphenyl-d14	80	(63 - 120)
	74	(63 - 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.

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PDF1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6G050000-393

Prep Date.....: 07/05/06 **Analysis Time..:** 17:07
Analysis Date..: 07/06/06
Prep Batch #...: 6186393
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	660	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	660	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PDF1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(34 - 120)
Phenol-d5	78	(37 - 120)
Nitrobenzene-d5	74	(36 - 120)
2-Fluorobiphenyl	74	(36 - 120)
2,4,6-Tribromophenol	77	(30 - 120)
Terphenyl-d14	83	(28 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PDF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-393
Prep Date.....: 07/05/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6186393 **Analysis Time..:** 17:31
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	**70**	**(43 - 120)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**70**	**(46 - 120)**	**SW846 8270C**
Acenaphthene	**73**	**(46 - 120)**	**SW846 8270C**
4-Chloro-3-methylphenol	**70**	**(50 - 120)**	**SW846 8270C**
2-Chlorophenol	**76**	**(49 - 120)**	**SW846 8270C**
2,4-Dinitrotoluene	**76**	**(48 - 120)**	**SW846 8270C**
4-Nitrophenol	**59**	**(41 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**73**	**(45 - 120)**	**SW846 8270C**
Pentachlorophenol	**78**	**(33 - 120)**	**SW846 8270C**
Phenol	**73**	**(48 - 120)**	**SW846 8270C**
Pyrene	**82**	**(45 - 120)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(49 - 120)
Phenol-d5	78	(49 - 120)
Nitrobenzene-d5	76	(47 - 120)
2-Fluorobiphenyl	73	(44 - 120)
2,4,6-Tribromophenol	77	(44 - 120)
Terphenyl-d14	83	(50 - 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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8PDF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-393
Prep Date.....: 07/05/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6186393 **Analysis Time..:** 17:31
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,4-Dichlorobenzene	**3510**	**2450**	**ug/kg**	**70**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3510**	**2460**	**ug/kg**	**70**	**SW846 8270C**
Acenaphthene	**3510**	**2540**	**ug/kg**	**73**	**SW846 8270C**
4-Chloro-3-methylphenol	**5260**	**3690**	**ug/kg**	**70**	**SW846 8270C**
2-Chlorophenol	**5260**	**3980**	**ug/kg**	**76**	**SW846 8270C**
2,4-Dinitrotoluene	**3510**	**2670**	**ug/kg**	**76**	**SW846 8270C**
4-Nitrophenol	**5260**	**3100**	**ug/kg**	**59**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3510**	**2550**	**ug/kg**	**73**	**SW846 8270C**
Pentachlorophenol	**5260**	**4080**	**ug/kg**	**78**	**SW846 8270C**
Phenol	**5260**	**3850**	**ug/kg**	**73**	**SW846 8270C**
Pyrene	**3510**	**2860**	**ug/kg**	**82**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(49 - 120)
Phenol-d5	78	(49 - 120)
Nitrobenzene-d5	76	(47 - 120)
2-Fluorobiphenyl	73	(44 - 120)
2,4,6-Tribromophenol	77	(44 - 120)
Terphenyl-d14	83	(50 - 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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8KJW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F300310-001 H8KJW1AD-MSD
Date Sampled...: 06/29/06 11:00 **Date Received..:** 06/30/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6186393 **Analysis Time..:** 19:28
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,4-Dichlorobenzene	49	(30 - 120)			SW846 8270C
	54	(30 - 120)	8.2	(0-68)	SW846 8270C
1,2,4-Trichloro-benzene	51	(35 - 120)			SW846 8270C
	56	(35 - 120)	8.8	(0-62)	SW846 8270C
Acenaphthene	58	(36 - 120)			SW846 8270C
	63	(36 - 120)	8.3	(0-50)	SW846 8270C
4-Chloro-3-methylphenol	60	(36 - 120)			SW846 8270C
	62	(36 - 120)	3.8	(0-50)	SW846 8270C
2-Chlorophenol	56	(32 - 120)			SW846 8270C
	62	(32 - 120)	11	(0-62)	SW846 8270C
2,4-Dinitrotoluene	64	(33 - 120)			SW846 8270C
	66	(33 - 120)	3.8	(0-49)	SW846 8270C
4-Nitrophenol	52	(23 - 120)			SW846 8270C
	54	(23 - 120)	3.7	(0-54)	SW846 8270C
N-Nitrosodi-n-propyl-amine	54	(34 - 120)			SW846 8270C
	60	(34 - 120)	12	(0-57)	SW846 8270C
Pentachlorophenol	69	(19 - 120)			SW846 8270C
	74	(19 - 120)	7.6	(0-60)	SW846 8270C
Phenol	56	(36 - 120)			SW846 8270C
	61	(36 - 120)	9.7	(0-54)	SW846 8270C
Pyrene	69	(16 - 127)			SW846 8270C
	73	(16 - 127)	5.8	(0-48)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(34 - 120)
	63	(34 - 120)
Phenol-d5	58	(37 - 120)
	64	(37 - 120)
Nitrobenzene-d5	54	(36 - 120)
	61	(36 - 120)
2-Fluorobiphenyl	56	(36 - 120)
	62	(36 - 120)
2,4,6-Tribromophenol	66	(30 - 120)
	72	(30 - 120)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8KJW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F300310-001 H8KJW1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	70	(28 - 120)
	74	(28 - 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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8KJW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F300310-001 H8KJW1AD-MSD
Date Sampled...: 06/29/06 11:00 **Date Received..:** 06/30/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/06/06
Prep Batch #...: 6186393 **Analysis Time..:** 19:28
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,4-Dichlorobenzene	ND	3330	1640	ug/kg	49		SW846 8270C
	ND	3330	1780	ug/kg	54	8.2	SW846 8270C
1,2,4-Trichloro-benzene	ND	3330	1710	ug/kg	51		SW846 8270C
	ND	3330	1870	ug/kg	56	8.8	SW846 8270C
Acenaphthene	ND	3330	1930	ug/kg	58		SW846 8270C
	ND	3330	2100	ug/kg	63	8.3	SW846 8270C
4-Chloro-3-methylphenol	ND	5000	2980	ug/kg	60		SW846 8270C
	ND	5000	3100	ug/kg	62	3.8	SW846 8270C
2-Chlorophenol	ND	5000	2780	ug/kg	56		SW846 8270C
	ND	5000	3100	ug/kg	62	11	SW846 8270C
2,4-Dinitrotoluene	ND	3330	2130	ug/kg	64		SW846 8270C
	ND	3330	2210	ug/kg	66	3.8	SW846 8270C
4-Nitrophenol	ND	5000	2590	ug/kg	52		SW846 8270C
	ND	5000	2690	ug/kg	54	3.7	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	3330	1800	ug/kg	54		SW846 8270C
	ND	3330	2020	ug/kg	60	12	SW846 8270C
Pentachlorophenol	ND	5000	3430	ug/kg	69		SW846 8270C
	ND	5000	3700	ug/kg	74	7.6	SW846 8270C
Phenol	ND	5000	2790	ug/kg	56		SW846 8270C
	ND	5000	3070	ug/kg	61	9.7	SW846 8270C
Pyrene	ND	3330	2300	ug/kg	69		SW846 8270C
	ND	3330	2440	ug/kg	73	5.8	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	56	(34 - 120)
	63	(34 - 120)
Phenol-d5	58	(37 - 120)
	64	(37 - 120)
Nitrobenzene-d5	54	(36 - 120)
	61	(36 - 120)
2-Fluorobiphenyl	56	(36 - 120)
	62	(36 - 120)
2,4,6-Tribromophenol	66	(30 - 120)
	72	(30 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8KJW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6F300310-001 H8KJW1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	70	(28 - 120)
	74	(28 - 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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H3Q1AA **Matrix.....:** WATER
MB Lot-Sample #: D6F300000-197

Prep Date.....: 06/30/06 **Analysis Time..:** 13:22
Analysis Date..: 07/07/06 **Prep Batch #...:** 6181197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	CFR136A 608
alpha-BHC	ND	0.050	ug/L	CFR136A 608
Chlordane (technical)	ND	0.50	ug/L	CFR136A 608
Dieldrin	ND	0.10	ug/L	CFR136A 608
Endosulfan I	ND	0.050	ug/L	CFR136A 608
Endosulfan II	ND	0.10	ug/L	CFR136A 608
Endrin	ND	0.10	ug/L	CFR136A 608
Heptachlor	ND	0.050	ug/L	CFR136A 608
Heptachlor epoxide	ND	0.050	ug/L	CFR136A 608
Mirex	ND	0.050	ug/L	CFR136A 608
4,4'-DDT	ND	0.10	ug/L	CFR136A 608
Endosulfan sulfate	ND	0.10	ug/L	CFR136A 608
4,4'-DDD	ND	0.10	ug/L	CFR136A 608
4,4'-DDE	ND	0.10	ug/L	CFR136A 608
beta-BHC	ND	0.050	ug/L	CFR136A 608
delta-BHC	ND	0.050	ug/L	CFR136A 608
gamma-BHC (Lindane)	ND	0.050	ug/L	CFR136A 608
Endrin aldehyde	ND	0.10	ug/L	CFR136A 608
alpha-Chlordane	ND	0.050	ug/L	CFR136A 608
gamma-Chlordane	ND	0.050	ug/L	CFR136A 608
Endrin ketone	ND	0.10	ug/L	CFR136A 608
Methoxychlor	ND	0.50	ug/L	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	69	(48 - 127)
Tetrachloro-m-xylene	81	(40 - 107)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H3Q1AE **Matrix.....:** WATER
MB Lot-Sample #: D6F300000-197

Prep Date.....: 06/30/06 **Analysis Time..:** 17:50
Analysis Date..: 07/06/06 **Prep Batch #...:** 6181197
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	CFR136A 608
Aroclor 1221	ND	2.0	ug/L	CFR136A 608
Aroclor 1232	ND	1.0	ug/L	CFR136A 608
Aroclor 1242	ND	1.0	ug/L	CFR136A 608
Aroclor 1248	ND	1.0	ug/L	CFR136A 608
Aroclor 1254	ND	1.0	ug/L	CFR136A 608
Aroclor 1260	ND	1.0	ug/L	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	106	(48 - 127)
Tetrachloro-m-xylene	68	(40 - 107)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H3Q1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6F300000-197 H8H3Q1AD-LCSD
Prep Date.....: 06/30/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6181197 **Analysis Time..:** 11:24
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4,4'-DDD	**93**	**(64 - 117)**			**CFR136A 608**
	94	**(64 - 117)**	**1.2**	**(0-26)**	**CFR136A 608**
4,4'-DDE	**95**	**(69 - 113)**			**CFR136A 608**
	95	**(69 - 113)**	**0.15**	**(0-28)**	**CFR136A 608**
4,4'-DDT	**104**	**(63 - 133)**			**CFR136A 608**
	104	**(63 - 133)**	**0.34**	**(0-28)**	**CFR136A 608**
Aldrin	**73**	**(35 - 112)**			**CFR136A 608**
	73	**(35 - 112)**	**0.25**	**(0-69)**	**CFR136A 608**
alpha-BHC	**80**	**(56 - 111)**			**CFR136A 608**
	78	**(56 - 111)**	**2.4**	**(0-67)**	**CFR136A 608**
beta-BHC	**91**	**(63 - 112)**			**CFR136A 608**
	92	**(63 - 112)**	**1.0**	**(0-32)**	**CFR136A 608**
delta-BHC	**72**	**(59 - 99)**			**CFR136A 608**
	73	**(59 - 99)**	**2.0**	**(0-28)**	**CFR136A 608**
Dieldrin	**87**	**(66 - 113)**			**CFR136A 608**
	89	**(66 - 113)**	**2.9**	**(0-25)**	**CFR136A 608**
Endosulfan I	**96**	**(45 - 127)**			**CFR136A 608**
	96	**(45 - 127)**	**0.32**	**(0-25)**	**CFR136A 608**
Endosulfan II	**97**	**(60 - 125)**			**CFR136A 608**
	99	**(60 - 125)**	**1.7**	**(0-26)**	**CFR136A 608**
Endosulfan sulfate	**96**	**(71 - 109)**			**CFR136A 608**
	97	**(71 - 109)**	**0.90**	**(0-24)**	**CFR136A 608**
Endrin aldehyde	**96**	**(62 - 110)**			**CFR136A 608**
	98	**(62 - 110)**	**1.4**	**(0-26)**	**CFR136A 608**
Endrin	**98**	**(65 - 118)**			**CFR136A 608**
	98	**(65 - 118)**	**0.61**	**(0-26)**	**CFR136A 608**
gamma-BHC (Lindane)	**90**	**(61 - 114)**			**CFR136A 608**
	90	**(61 - 114)**	**0.46**	**(0-49)**	**CFR136A 608**
Heptachlor epoxide	**92**	**(65 - 113)**			**CFR136A 608**
	93	**(65 - 113)**	**0.81**	**(0-27)**	**CFR136A 608**
Heptachlor	**85**	**(47 - 113)**			**CFR136A 608**
	86	**(47 - 113)**	**0.74**	**(0-58)**	**CFR136A 608**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(48 - 127)
	99	(48 - 127)
Tetrachloro-m-xylene	80	(40 - 107)
	74	(40 - 107)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8H3Q1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6F300000-197 H8H3Q1AD-LCSD
Prep Date.....: 06/30/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6181197 **Analysis Time..:** 11:24
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4,4'-DDD	**0.500**	**0.465**	**ug/L**	**93**		**CFR136A 608**
	0.500	**0.471**	**ug/L**	**94**	**1.2**	**CFR136A 608**
4,4'-DDE	**0.500**	**0.473**	**ug/L**	**95**		**CFR136A 608**
	0.500	**0.474**	**ug/L**	**95**	**0.15**	**CFR136A 608**
4,4'-DDT	**0.500**	**0.520**	**ug/L**	**104**		**CFR136A 608**
	0.500	**0.519**	**ug/L**	**104**	**0.34**	**CFR136A 608**
Aldrin	**0.500**	**0.364**	**ug/L**	**73**		**CFR136A 608**
	0.500	**0.363**	**ug/L**	**73**	**0.25**	**CFR136A 608**
alpha-BHC	**0.500**	**0.398**	**ug/L**	**80**		**CFR136A 608**
	0.500	**0.388**	**ug/L**	**78**	**2.4**	**CFR136A 608**
beta-BHC	**0.500**	**0.455**	**ug/L**	**91**		**CFR136A 608**
	0.500	**0.460**	**ug/L**	**92**	**1.0**	**CFR136A 608**
delta-BHC	**0.500**	**0.359**	**ug/L**	**72**		**CFR136A 608**
	0.500	**0.366**	**ug/L**	**73**	**2.0**	**CFR136A 608**
Dieldrin	**0.500**	**0.434**	**ug/L**	**87**		**CFR136A 608**
	0.500	**0.447**	**ug/L**	**89**	**2.9**	**CFR136A 608**
Endosulfan I	**0.500**	**0.479**	**ug/L**	**96**		**CFR136A 608**
	0.500	**0.480**	**ug/L**	**96**	**0.32**	**CFR136A 608**
Endosulfan II	**0.500**	**0.487**	**ug/L**	**97**		**CFR136A 608**
	0.500	**0.495**	**ug/L**	**99**	**1.7**	**CFR136A 608**
Endosulfan sulfate	**0.500**	**0.478**	**ug/L**	**96**		**CFR136A 608**
	0.500	**0.483**	**ug/L**	**97**	**0.90**	**CFR136A 608**
Endrin aldehyde	**0.500**	**0.482**	**ug/L**	**96**		**CFR136A 608**
	0.500	**0.489**	**ug/L**	**98**	**1.4**	**CFR136A 608**
Endrin	**0.500**	**0.488**	**ug/L**	**98**		**CFR136A 608**
	0.500	**0.491**	**ug/L**	**98**	**0.61**	**CFR136A 608**
gamma-BHC (Lindane)	**0.500**	**0.449**	**ug/L**	**90**		**CFR136A 608**
	0.500	**0.452**	**ug/L**	**90**	**0.46**	**CFR136A 608**
Heptachlor epoxide	**0.500**	**0.461**	**ug/L**	**92**		**CFR136A 608**
	0.500	**0.465**	**ug/L**	**93**	**0.81**	**CFR136A 608**
Heptachlor	**0.500**	**0.425**	**ug/L**	**85**		**CFR136A 608**
	0.500	**0.428**	**ug/L**	**86**	**0.74**	**CFR136A 608**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(48 - 127)
	99	(48 - 127)
Tetrachloro-m-xylene	80	(40 - 107)
	74	(40 - 107)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8L981AA **Matrix.....:** WATER
MB Lot-Sample #: D6G030000-119

Prep Date.....: 07/03/06 **Analysis Time..:** 00:25
Analysis Date..: 07/08/06 **Prep Batch #...:** 6184119
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	2.5	ug/L	MCAWW 614
Demeton (total)	ND	1.0	ug/L	MCAWW 614
Methyl parathion	ND	4.0	ug/L	MCAWW 614
Ethyl parathion	ND	1.0	ug/L	MCAWW 614
Malathion	ND	1.2	ug/L	MCAWW 614

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	78	(49 - 171)
Triphenyl phosphate	61	(60 - 154)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8L981AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G030000-119 H8L981AD-LCSD
Prep Date.....: 07/03/06 **Analysis Date..:** 07/08/06
Prep Batch #...: 6184119 **Analysis Time..:** 00:57
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Demeton (total)	**84**	**(33 - 141)**			**MCAWW 614**
	86	**(33 - 141)**	**2.3**	**(0-40)**	**MCAWW 614**
Malathion	**93**	**(53 - 137)**			**MCAWW 614**
	94	**(53 - 137)**	**0.72**	**(0-40)**	**MCAWW 614**
Ethyl parathion	**86**	**(47 - 142)**			**MCAWW 614**
	84	**(47 - 142)**	**1.4**	**(0-40)**	**MCAWW 614**
Methyl parathion	**90**	**(55 - 131)**			**MCAWW 614**
	88	**(55 - 131)**	**2.7**	**(0-40)**	**MCAWW 614**
Diazinon	**93**	**(47 - 149)**			**MCAWW 614**
	96	**(47 - 149)**	**3.3**	**(0-40)**	**MCAWW 614**
Phorate	**90**	**(46 - 142)**			**MCAWW 614**
	94	**(46 - 142)**	**3.8**	**(0-40)**	**MCAWW 614**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	92	(49 - 171)
	98	(49 - 171)
Triphenyl phosphate	62	(60 - 154)
	62	(60 - 154)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8L981AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G030000-119 H8L981AD-LCSD
Prep Date.....: 07/03/06 **Analysis Date..:** 07/08/06
Prep Batch #...: 6184119 **Analysis Time..:** 00:57
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Demeton (total)	**4.00**	**3.38**	**ug/L**	**84**		**MCAWW 614**
	4.00	**3.46**	**ug/L**	**86**	**2.3**	**MCAWW 614**
Malathion	**4.00**	**3.73**	**ug/L**	**93**		**MCAWW 614**
	4.00	**3.75**	**ug/L**	**94**	**0.72**	**MCAWW 614**
Ethyl parathion	**4.00**	**3.42**	**ug/L**	**86**		**MCAWW 614**
	4.00	**3.37**	**ug/L**	**84**	**1.4**	**MCAWW 614**
Methyl parathion	**4.00**	**3.60**	**ug/L**	**90**		**MCAWW 614**
	4.00	**3.50**	**ug/L**	**88**	**2.7**	**MCAWW 614**
Diazinon	**8.00**	**7.44**	**ug/L**	**93**		**MCAWW 614**
	8.00	**7.69**	**ug/L**	**96**	**3.3**	**MCAWW 614**
Phorate	**4.00**	**3.60**	**ug/L**	**90**		**MCAWW 614**
	4.00	**3.74**	**ug/L**	**94**	**3.8**	**MCAWW 614**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	92	(49 - 171)
	98	(49 - 171)
Triphenyl phosphate	62	(60 - 154)
	62	(60 - 154)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NPF1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6G050000-191

Prep Date.....: 07/05/06 **Analysis Time..:** 14:57
Analysis Date..: 07/12/06 **Prep Batch #...:** 6186191
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Mirex	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Chlordane (technical)	ND	25	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	70	(49 - 130)
Tetrachloro-m-xylene	89	(46 - 127)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NPF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-191
Prep Date.....: 07/05/06 **Analysis Date..:** 07/12/06
Prep Batch #...: 6186191 **Analysis Time..:** 11:01
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aldrin	**88**	**(60 - 118)**	**SW846 8081A**
gamma-BHC (Lindane)	**86**	**(60 - 117)**	**SW846 8081A**
4,4'-DDT	**98**	**(44 - 150)**	**SW846 8081A**
Dieldrin	**93**	**(67 - 119)**	**SW846 8081A**
Endrin	**96**	**(63 - 122)**	**SW846 8081A**
Heptachlor	**92**	**(46 - 137)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	84	(55 - 130)
Tetrachloro-m-xylene	90	(64 - 118)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NPF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-191
Prep Date.....: 07/05/06 **Analysis Date..:** 07/12/06
Prep Batch #...: 6186191 **Analysis Time..:** 11:01
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**16.7**	**14.7**	**ug/kg**	**88**	**SW846 8081A**
gamma-BHC (Lindane)	**16.7**	**14.3**	**ug/kg**	**86**	**SW846 8081A**
4,4'-DDT	**16.7**	**16.3**	**ug/kg**	**98**	**SW846 8081A**
Dieldrin	**16.7**	**15.5**	**ug/kg**	**93**	**SW846 8081A**
Endrin	**16.7**	**15.9**	**ug/kg**	**96**	**SW846 8081A**
Heptachlor	**16.7**	**15.3**	**ug/kg**	**92**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	84	(55 - 130)
Tetrachloro-m-xylene	90	(64 - 118)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NM91AA **Matrix.....:** SOLID
MB Lot-Sample #: D6G050000-177

Prep Date.....: 07/05/06 **Analysis Time..:** 14:21
Analysis Date..: 07/10/06 **Prep Batch #...:** 6186177
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	47	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(53 - 132)
Decachlorobiphenyl	86	(38 - 162)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NM91AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-177
Prep Date.....: 07/05/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6186177 **Analysis Time..:** 14:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**136 a**	**(54 - 132)**	**SW846 8082**
Aroclor 1260	**112**	**(62 - 129)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(53 - 128)
Decachlorobiphenyl	86	(59 - 130)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8NM91AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6G050000-177
Prep Date.....: 07/05/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6186177 **Analysis Time..:** 14:38
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**65.8**	**89.7 a**	**ug/kg**	**136**	**SW846 8082**
Aroclor 1260	**65.8**	**73.4**	**ug/kg**	**112**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(53 - 128)
Decachlorobiphenyl	86	(59 - 130)

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 Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8MLW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6G030133-015 H8MLW1AD-MSD
Date Sampled...: 06/30/06 **Date Received..:** 07/03/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6186177 **Analysis Time..:** 15:46
Dilution Factor: 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**NC,DIL**	**(24 - 170)**			**SW846 8082**
	NC,DIL	**(24 - 170)**		**(0-40)**	**SW846 8082**
Aroclor 1260	**NC,DIL**	**(40 - 166)**			**SW846 8082**
	NC,DIL	**(40 - 166)**		**(0-40)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(53 - 132)
	NC,DIL	(53 - 132)
Decachlorobiphenyl	NC,DIL	(38 - 162)
	NC,DIL	(38 - 162)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8MLW1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6G030133-015 H8MLW1AD-MSD
Date Sampled...: 06/30/06 **Date Received..:** 07/03/06
Prep Date.....: 07/05/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6186177 **Analysis Time..:** 15:46
Dilution Factor: 20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**			**ug/kg**	**NC,DIL**		**SW846 8082**
	ND			**ug/kg**	**NC,DIL**		**SW846 8082**
Aroclor 1260	**640**			**ug/kg**	**NC,DIL**		**SW846 8082**
	640			**ug/kg**	**NC,DIL**		**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	NC,DIL	(53 - 132)
	NC,DIL	(53 - 132)
Decachlorobiphenyl	NC,DIL	(38 - 162)
	NC,DIL	(38 - 162)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8HCP1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6F290000-531

Prep Date.....: 06/29/06 **Analysis Time..:** 08:54
Analysis Date..: 07/08/06 **Prep Batch #...:** 6180531
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Malathion	ND	15	ug/kg	SW846 8141A
Methyl parathion	ND	20	ug/kg	SW846 8141A
Ethyl parathion	ND	18	ug/kg	SW846 8141A
Azinphos-methyl	ND	13	ug/kg	SW846 8141A
Demeton (total)	ND	39	ug/kg	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	40	(37 - 124)
Triphenyl phosphate	56	(50 - 150)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8HCP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6F290000-531
Prep Date.....: 06/29/06 **Analysis Date..:** 07/08/06
Prep Batch #...: 6180531 **Analysis Time..:** 09:26
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Malathion	**75**	**(49 - 124)**	**SW846 8141A**
Ethyl parathion	**72**	**(38 - 134)**	**SW846 8141A**
Methyl parathion	**67**	**(51 - 115)**	**SW846 8141A**
Demeton (total)	**12**	**(10 - 123)**	**SW846 8141A**
Diazinon	**64**	**(49 - 122)**	**SW846 8141A**
Phorate	**41 a**	**(45 - 115)**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	32 *	(42 - 132)
Triphenyl phosphate	57	(47 - 161)

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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D6F290294 **Work Order #...:** H8HCP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6F290000-531
Prep Date.....: 06/29/06 **Analysis Date..:** 07/08/06
Prep Batch #...: 6180531 **Analysis Time..:** 09:26
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Malathion	125	**93.8**	**ug/kg**	**75**	**SW846 8141A**
Ethyl parathion	125	**90.3**	**ug/kg**	**72**	**SW846 8141A**
Methyl parathion	125	**83.6**	**ug/kg**	**67**	**SW846 8141A**
Demeton (total)	125	**15.0**	**ug/kg**	**12**	**SW846 8141A**
Diazinon	125	**79.8**	**ug/kg**	**64**	**SW846 8141A**
Phorate	125	**50.8 a**	**ug/kg**	**41**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	32 *	(42 - 132)
Triphenyl phosphate	57	(47 - 161)

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.

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8N971AA **Matrix.....:** SOLID
MB Lot-Sample #: G6G050000-359

Prep Date.....: 07/05/06 **Analysis Time..:** 01:45
Analysis Date..: 07/07/06 **Prep Batch #...:** 6186359
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.0092	ng/g	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	89	(25 - 150)

NOTE(S):

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

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8PAD1AA **Matrix.....:** WATER
MB Lot-Sample #: G6G050000-361

Prep Date.....: 07/05/06 **Analysis Time..:** 13:03
Analysis Date..: 07/07/06 **Prep Batch #...:** 6186361
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.13	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	66	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	90	(25 - 150)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8N971AC **Matrix.....:** SOLID
LCS Lot-Sample#: G6G050000-359
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186359 **Analysis Time..:** 02:33
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**104**	**(70 - 130)**	**SW846 8280A**
1,2,3,7,8-PeCDD	**105**	**(70 - 138)**	**SW846 8280A**
1,2,3,4,7,8-HxCDD	**101**	**(67 - 127)**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**108**	**(69 - 129)**	**SW846 8280A**
1,2,3,7,8,9-HxCDD	**103**	**(66 - 126)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**103**	**(68 - 128)**	**SW846 8280A**
OCDD	**98**	**(66 - 126)**	**SW846 8280A**
2,3,7,8-TCDF	**107**	**(68 - 128)**	**SW846 8280A**
1,2,3,7,8-PeCDF	**106**	**(70 - 140)**	**SW846 8280A**
2,3,4,7,8-PeCDF	**101**	**(71 - 137)**	**SW846 8280A**
1,2,3,4,7,8-HxCDF	**106**	**(67 - 127)**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**103**	**(67 - 127)**	**SW846 8280A**
2,3,4,6,7,8-HxCDF	**108**	**(66 - 126)**	**SW846 8280A**
1,2,3,7,8,9-HxCDF	**104**	**(65 - 125)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**104**	**(67 - 127)**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	**105**	**(67 - 127)**	**SW846 8280A**
OCDF	**100**	**(65 - 125)**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(25 - 150)
13C-2,3,7,8-TCDF	94	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	104	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	103	(25 - 150)
13C-OCDD	107	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	92	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8N971AC **Matrix.....:** SOLID
LCS Lot-Sample#: G6G050000-359
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186359 **Analysis Time..:** 02:33
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**2.50**	**2.61**	**ng/g**	**104**	**SW846 8280A**
1,2,3,7,8-PeCDD	**6.25**	**6.58**	**ng/g**	**105**	**SW846 8280A**
1,2,3,4,7,8-HxCDD	**6.25**	**6.29**	**ng/g**	**101**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**6.25**	**6.73**	**ng/g**	**108**	**SW846 8280A**
1,2,3,7,8,9-HxCDD	**6.25**	**6.45**	**ng/g**	**103**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**6.25**	**6.44**	**ng/g**	**103**	**SW846 8280A**
OCDD	**12.5**	**12.2**	**ng/g**	**98**	**SW846 8280A**
2,3,7,8-TCDF	**2.50**	**2.67**	**ng/g**	**107**	**SW846 8280A**
1,2,3,7,8-PeCDF	**6.25**	**6.61**	**ng/g**	**106**	**SW846 8280A**
2,3,4,7,8-PeCDF	**6.25**	**6.34**	**ng/g**	**101**	**SW846 8280A**
1,2,3,4,7,8-HxCDF	**6.25**	**6.64**	**ng/g**	**106**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**6.25**	**6.46**	**ng/g**	**103**	**SW846 8280A**
2,3,4,6,7,8-HxCDF	**6.25**	**6.73**	**ng/g**	**108**	**SW846 8280A**
1,2,3,7,8,9-HxCDF	**6.25**	**6.51**	**ng/g**	**104**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**6.25**	**6.50**	**ng/g**	**104**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	**6.25**	**6.54**	**ng/g**	**105**	**SW846 8280A**
OCDF	**12.5**	**12.5**	**ng/g**	**100**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(25 - 150)
13C-2,3,7,8-TCDF	94	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	104	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	103	(25 - 150)
13C-OCDD	107	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	92	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8PAD1AC **Matrix.....:** WATER
LCS Lot-Sample#: G6G050000-361
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186361 **Analysis Time..:** 13:51
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**109**	**(65 - 135)**	**SW846 8280A**
1,2,3,7,8-PeCDD	**118**	**(68 - 140)**	**SW846 8280A**
1,2,3,4,7,8-HxCDD	**112**	**(66 - 126)**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**116**	**(68 - 128)**	**SW846 8280A**
1,2,3,7,8,9-HxCDD	**117**	**(68 - 128)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**117**	**(67 - 127)**	**SW846 8280A**
OCDD	**103**	**(67 - 127)**	**SW846 8280A**
2,3,7,8-TCDF	**114**	**(70 - 130)**	**SW846 8280A**
1,2,3,7,8-PeCDF	**127**	**(69 - 138)**	**SW846 8280A**
2,3,4,7,8-PeCDF	**119**	**(69 - 137)**	**SW846 8280A**
1,2,3,4,7,8-HxCDF	**110**	**(64 - 129)**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**111**	**(68 - 128)**	**SW846 8280A**
2,3,4,6,7,8-HxCDF	**114**	**(71 - 131)**	**SW846 8280A**
1,2,3,7,8,9-HxCDF	**115**	**(70 - 130)**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**112**	**(68 - 128)**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	**113**	**(69 - 129)**	**SW846 8280A**
OCDF	**106**	**(66 - 126)**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(25 - 150)
13C-2,3,7,8-TCDF	72	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	82	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	85	(25 - 150)
13C-OCDD	91	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	98	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6F290294 **Work Order #...:** H8PAD1AC **Matrix.....:** WATER
LCS Lot-Sample#: G6G050000-361
Prep Date.....: 07/05/06 **Analysis Date..:** 07/07/06
Prep Batch #...: 6186361 **Analysis Time..:** 13:51
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**25.0**	**27.1**	**ng/L**	**109**	**SW846 8280A**
1,2,3,7,8-PeCDD	**62.5**	**73.7**	**ng/L**	**118**	**SW846 8280A**
1,2,3,4,7,8-HxCDD	**62.5**	**69.8**	**ng/L**	**112**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**62.5**	**72.6**	**ng/L**	**116**	**SW846 8280A**
1,2,3,7,8,9-HxCDD	**62.5**	**73.2**	**ng/L**	**117**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**62.5**	**73.3**	**ng/L**	**117**	**SW846 8280A**
OCDD	**125**	**129**	**ng/L**	**103**	**SW846 8280A**
2,3,7,8-TCDF	**25.0**	**28.4**	**ng/L**	**114**	**SW846 8280A**
1,2,3,7,8-PeCDF	**62.5**	**79.4**	**ng/L**	**127**	**SW846 8280A**
2,3,4,7,8-PeCDF	**62.5**	**74.3**	**ng/L**	**119**	**SW846 8280A**
1,2,3,4,7,8-HxCDF	**62.5**	**68.5**	**ng/L**	**110**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**62.5**	**69.5**	**ng/L**	**111**	**SW846 8280A**
2,3,4,6,7,8-HxCDF	**62.5**	**71.4**	**ng/L**	**114**	**SW846 8280A**
1,2,3,7,8,9-HxCDF	**62.5**	**72.0**	**ng/L**	**115**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**62.5**	**69.8**	**ng/L**	**112**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	**62.5**	**70.9**	**ng/L**	**113**	**SW846 8280A**
OCDF	**125**	**132**	**ng/L**	**106**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(25 - 150)
13C-2,3,7,8-TCDF	72	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	82	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	85	(25 - 150)
13C-OCDD	91	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	98	(25 - 150)

NOTE(S):

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

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D6F290294 **Work Order #...:** H8J3R-SMP H8J3R-DUP **Matrix.....:** SOLID

Date Sampled...: 06/29/06 15:45 **Date Received..:** 06/30/06

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: D6F290315-023		
	11	11	%	3.6	(0-20)	MCAWW 160.3 MOD	07/06/06	6187186

Dilution Factor: 1 Analysis Time..: 16:30

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D6F290294 **Work Order #...:** H8DML-SMP H8DML-DUP **Matrix.....:** SOLID

Date Sampled...: 06/26/06 11:40 **Date Received..:** 06/28/06

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: C6F280214-011		
	11	5.4	%	72	(0-10)	ASTM D 2216-90	07/10-07/11/06	6191258

Dilution Factor: 1 Analysis Time..: 09:13

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06VOP001	INF CMP #1	3	6/27/06	0845		
MOA06VOP002	INF CMP #2	3	6/27/06	1150		
MOA06VOP003	INF CMP #3	3	6/27/06	1450		
MOA06VOP004	INF CMP #4	3	6/27/06	1745		
MOA06VOP005	INF CMP #5	3	6/27/06	2055		
MOA06VOP006	INF CMP #6	3	6/27/06	2350		
MOA06VOP007	INF CMP #7	3	6/28/06	0300		
MOA06VOP008	INF CMP #8	3	6/28/06	0550		

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
	6/28/06	hand		6/28/06 0550
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1900	FEDEX		6/29/06 0530
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 10 days	**P.O. #:** AK06-1012	**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
MOA06VOP009	EFF CMP #1	3	6/27/06	0900		
MOA06VOP010	EFF CMP #2	3	6/27/06	1203		
MOA06VOP011	EFF CMP #3	3	6/27/06	1504		
MOA06VOP012	EFF CMP #4	3	6/27/06	1801		
MOA06VOP013	EFF CMP #5	3	6/27/06	2100		
MOA06VOP014	EFF CMP #6	3	6/28/06	0005		
MOA06VOP015	EFF CMP #7	3	6/28/06	0300		
MOA06VOP016	EFF CMP #8	3	6/28/06	0600		

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
	6/26/06			6/28/06 0850
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1012	**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
MOA06VOP017	C-Station	3	6/24/06	0700		
MOA06VOP018	Trip Blank	3				

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
	6/28/06	hand		6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FED EX		Gloria 0630
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06DXN001	Influent	2	6/27-28/06	0800 - 0800		
MOA06DXN002	Effluent	2	↓	↓		

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
	6/28/06	FAX		6/28/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06DXN003	Sludge	1	6/27-28/06	~~0800~~ 0901-0600		

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]	6/28/06	hand	[signature]	6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/28/06 1400	FED EX	[signature]	6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PES004	Sludge	1	6/27/06	0901-0600		

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
	6/28/06	hand		6/28/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/29/06 1400	FED EX		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06SVL003	Sludge	1	6/27-28/06	0901-0600		

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
	6/28/06	hand		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1700	FED EX		
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1012	**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
MOA06VOP019	Sludge	1	6/27&28/06	0901-0600		

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
	6/28/06	hand		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/29/06 1900	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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3.5°
6/29/06
[illegible]

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1012 | **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
MOA06SVL001	Influent	2	6/24-28/06	0800-0800		
MOA06SVL002	Effluent	2	↓	↓		

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]	6/28/06	[signature]	[signature]	6/28/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/28/06 1400	FED EX	[signature]	6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PST001	Influent-1	1	6/29-28/06	0800-0800		
MOA06PST002	Influent-2	1	↓	↓		
MOA06PST003	Effluent	3	↓	↓		

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
	6/28/06	Hand		6/28/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1900	FedEx		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PES001	Influent-1	1	6/27-28/06	0800-0800		
MOA06PES002	Influent-2	1	↓	↓		
MOA06PES003	Effluent	3	↓	↓		

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
	6/28/06	hand		0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	1400	FED EX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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3.8 [illegible] 6/29/06 [illegible]

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1012 | **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
MOA06VOP001	INF CMP #1	3 6/27	6/27/06	0845		
MOA06VOP002	INF CMP #2	3 6/27	6/27/06	1150		
MOA06VOP003	INF CMP #3	3 6/27	6/27/06	1450		
MOA06VOP004	INF CMP #4	3 6/27	6/27/06	1745		
MOA06VOP005	INF CMP #5	3 6/27	6/27/06	2055		
MOA06VOP006	INF CMP #6	3 6/27	6/27/06	2350		
MOA06VOP007	INF CMP #7	3 6/28	6/28/06	0300		
MOA06VOP008	INF CMP #8	3 6/28	6/28/06	0550		

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]	6/28/06	[signature]	[signature]	6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/28/06 1900	FEDEX	[signature]	6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 10 days	**P.O. #:** AK06-1012	**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
MOA06VOP009	EFF CMP #1	3	6/27/06	0900		
MOA06VOP010	EFF CMP #2	3	6/27/06	1203		
MOA06VOP011	EFF CMP #3	3	6/27/06	1504		
MOA06VOP012	EFF CMP #4	3	6/27/06	1801		
MOA06VOP013	EFF CMP #5	3	6/27/06	2100		
MOA06VOP014	EFF CMP #6	3	6/28/06	0005		
MOA06VOP015	EFF CMP #7	3	6/28/06	0300		
MOA06VOP016	EFF CMP #8	3	6/28/06	0600		

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
	6/26/06			6/28/06 0850
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

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Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1012	**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
MOA06VOP017	C-Station	3	6/24/06	0700		
MOA06VOP018	Trip Blank	3				

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
	6/28/06	Hand		6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FED EX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06DXN001	Influent	2	6/27-28/06	0800 - 0800		
MOA06DXN002	Effluent	2	"	"		

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
	6/28/06	KLI		6/28/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06DXN003	Sludge	1	6/27-28/06	~~0800~~ 0901-0600		

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
	6/28/06	hand		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/29/06 1800	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PES004	Sludge	1	6/27/2006	0901-0605		

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
	6/28/06	hand		6/28/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FED EX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06SVL003	Sludge	1	6/27-28/06	0901-0600		

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
	6/28/06	hand		6/28/06 0730
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1800	FEDEX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1012	**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
MOA06VOP019	Sludge	1	6/27&28/06	0901-0600		

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
	6/28/06	hand		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FED EX		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

3.5 6/29/06 FAX

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06SVL001	Influent	2	6/24-28/06	0800 - 0800		
MOA06SVL002	Effluent	2	↓	↓		

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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	6/28/06			6/29/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1800	FED EX		06/29/06 0836
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PST001	Influent-1	1	6/24-28/06	0800-0800		
MOA06PST002	Influent-2	1	↓	↓		
MOA06PST003	Effluent	3	↓	↓		

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.

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	6/28/06			6/28/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1900			6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmPEST_DRY06COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 ATTN: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06PES001	Influent-1	1	6/27-28/06	0800-0800		
MOA06PES002	Influent-2	1	↓	↓		
MOA06PES003	Effluent	3	↓	↓		

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
	6/28/06	Hand		6/29/06 0955
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FedEx		6/29/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A4 Asbestos

Solar Environmental Services, Inc. and EMSL Analytical, Inc

JUNE SAMPLING, ASBESTOS, SES AND EMSL SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06ASB001	INFLUENT	SAMPLE
MOA06ASB002	EFFLUENT	SAMPLE
MOA06ASB003	SLUDGE	SAMPLE

Solar Environmental Services, Inc.

7401 Meadow Street
Anchorage, AK 99507
Home Page: www.alaska.net/~sesenvir/

Phone: (907) 349-7705
Fax: (907) 349-7944
E-mail: sesenvir@alaska.net

CERTIFICATE OF ANALYSIS

CLIENT:	Kinnetic Laboratories, Inc.	**CLIENT ORDER #:**	194019
ATTN:	Tim Mayers	**PROJECT NAME:**	AK06-1008/KL# 516.01
	1102 West 7th Ave.	**PROJECT #:**	AK06-1008/KL# 516.01
	Anchorage, Alaska 99501	**REPORT #:**	B2006-76
		REPORT DATE:	July 28, 2006
		COLLECTED BY:	Client
		DATE SAMPLED:	June 27-28, 2006
		DATE RECEIVED:	June 28, 2006
		DATE ANALYZED:	July 28, 2006
		ANALYZED BY:	Grace T.

PAGE: 1 of 1

BULK ASBESTOS ANALYSIS REPORT

POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

LAB. #	CLIENT#	DESCRIPTION/ LOCATION/ COLOR	% ASBESTOS PRESENT	% OTHER FIBROUS MATERIALS	%NONFIBROUS MATERIALS
2006531BO152	MOA06ASB003	Sludge	None Detected	Cellulose Positive Synthetic Positive	N/A

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: _____ Date: 8/14/06

Gracita O. Torrijos, Chemist – I.H.

FORM# SES 1008 REVISED 6-17-98

AIHA – AAR – PAT Certified

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: westmontasblab@EMSL.com

Attn: **Solar Environmental Services, Inc.**
7401 Meadow Street
Anchorage, AK 99507

Fax: Phone: (907) 349-7705
Project: **516.01 KINNETIC-MCA**

Customer ID:	SOLA50
Customer PO:	1751 071006
Received:	07/11/06 9:30 AM
EMSL Order:	040613964
EMSL Proj:	
Analysis Date:	7/12/2006
Report Date:	7/12/2006

Determination of Asbestos Structures over 10um in Length in Waste Water Performed by the EPA 100.2 Method

Sample ID	Sample Prep Date	# Fibers Asbestos	# Fibers Non-Asbestos	Type(s) Of Asbestos	Analytical Sensitivity (MFL)	Confidence Limits	Concentration Of Asbestos Fibers (MFL)	Comments
MOA06 ASB001 *040613964-0001*	7/11/2006	0	0		100.00	0.00-380.00	<100.00	
MOA06 ASB002 *040613964-0002*	7/11/2006	0	0		100.00	0.00-380.00	<100.00	

Analyst(s)
Steve Siegel (2)

Stephen Siegel, CIH
or other approved signatory

Sample collection and containers provided by the client, acceptable bottle blank level is defined as <=0.01MFL>10um. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.
ACCREDITATIONS: NJ Lab ID: 04006, NYS ELAP Lab ID: 10872, NVLAP 101048-0, FL Lab ID: E87788

THIS IS THE LAST PAGE OF THE REPORT.

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:

Solar Environmental Services Inc.
7401 Meadow Street
Anchorage, AK 99507

FROM:

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers
(907)276-6178

B2006-76

2006531B0 152

REQUIRED COMPLETION DATE: 30 days

P.O. #: AK06-1008

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
152 MOA06ASB003	Sludge	1	6/27&28/06	0901-0600		

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
	6/28/06	hand		6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1305	hand		6/28/06 1:05p
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmDRY06COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Solar Environmental Services Inc. **7401 Meadow Street** **Anchorage, AK 99507**	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1008	**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
MOA06ASB001	Influent	1	6/27-28/06	0800-0800		
MOA06ASB002	Effluent	1	6/27-28/06	0800-0800		

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
	6/28/06	hand		6/28/06 0935
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1305	hand		6/28/06 1:05pm
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): _____

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APPENDIX A

Toxic Pollutant and Pesticide Monitoring, June Sampling

A5 Enterococci

Analytica Alaska, Inc.

JUNE SAMPLING, ENTEROCOCCI, ANALYTICA ALASKA SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06ENT001	EFFLUENT REP-1	SAMPLE
MOA06ENT002	EFFLUENT REP-2	SAMPLE

Analytica International, Inc.
5761 Silverado Way, Unit N
Anchorage, AK 99518
Phone: 907-258-2155

7/25/2006

Kinnetic Laboratories
1102 W. 7th
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: A0606352
Date: 7/25/2006
Work ID: 2006 AWWU MOA
Date Received: 6/27/2006

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A0606352-01	MOA06ENT001	A0606352-02	MOA06ENT002
A0606352-03	E 1-1	A0606352-04	E 1-2
A0606352-05	E 1-3	A0606352-06	E 1-4
A0606352-07	E 2-1	A0606352-08	E 2-2
A0606352-09	E 2-3	A0606352-10	E 2-4
A0606352-11	E 3-1	A0606352-12	E 3-2
A0606352-13	E 3-3	A0606352-14	E 3-4
A0606352-15	F 1-1	A0606352-16	F 1-2
A0606352-17	F 1-3	A0606352-18	F 1-4
A0606352-19	F 2-1	A0606352-20	F 2-2
A0606352-21	F 2-3	A0606352-22	F 2-4
A0606352-23	F 3-1	A0606352-24	F 3-2
A0606352-25	F 3-3	A0606352-26	F 3-4
A0606352-27	C 1-1	A0606352-28	C 1-2
A0606352-29	C 1-3	A0606352-30	C 1-4
A0606352-31	C 2-1	A0606352-32	C 2-2
A0606352-33	C 2-3	A0606352-34	C 2-4
A0606352-35	C 3-1	A0606352-36	C 3-2
A0606352-37	C 3-3	A0606352-38	C 3-4

Enclosed are the analytical results, in summary format, for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues.

Sincerely,

Krissy Plett
Project Manager

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: MOA06ENT001

Matrix: Aqueous

Collection Date: 6/27/2006 3:00:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Enterococci by MPN	**2,400**	1.0	MPN/100ml	6/27/06 16:15		pl	SM9230B - Enterococcus - Quantit

Client Sample Name: MOA06ENT002

Matrix: Aqueous

Collection Date: 6/27/2006 3:00:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Enterococci by MPN	**2,400**	1.0	MPN/100ml	6/27/06 16:15		pl	SM9230B - Enterococcus - Quantit

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Analytica Alaska, Inc. 5761 Silverado Way, Suite N Anchorage, AK 99518 (907) 258-2155 Attn: Krissy Plett	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim MAyers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1007 | **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
MOA06ENT001	Effluent-1	2	6/27/06	1500		
MOA06ENT002	Effluent-2	2	6/27/06	1500		

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
M Kann	6/27/06-1506	HAND	[signature]	6/27/06 15:09
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/27/06 15:28	HAND	[signature]	6/27/06 1528
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/27/06 1606	Hand	[signature]	6/27/06 16:06

SAMPLED BY (NAME/SIGNATURE): _____

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APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B1 Oil & Grease and Cyanide

Anchorage Water and Wastewater Utility

Mark Begich
Mayor

ANCHORAGE WATER AND WASTEWATER UTILITY
WATER QUALITY SECTION - LABORATORY SERVICES

ANALYTICAL RESULTS

Date of the Report: 10/26/06

Owned by the
Municipality of Anchorage

Sample ID			AA55380	AA55381	AA55385	AA55386	AA55387	AA55388
Sample Location			Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent
Collection Date			06/27-28/06	06/27-28/06	06/28-29/06	06/28-29/06	06/29-30/06	06/29-30/06
Sample Collector			P. JESKIE	P. JESKIE	P. JESKIE	P. JESKIE	B. NIZIOL	B. NIZIOL
Project Code			WW-PW	WW-PW	WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Cyanide, Total	4500CN C,E	mg/L	ND (<0.001)	0.005	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)

Sample ID			AA55960	AA55961	AA55965	AA55966	AA55967	AA55968
Sample Location			Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent	Pt. Woronzof WWTF - Influent	Pt. Woronzof WWTF - F.Effluent
Collection Date			08/15-16/06	08/15-16/06	08/16-17/06	08/16-17/06	08/17-18/06	08/17-18/06
Sample Collector			P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE	P.JESKIE
Project Code			WW-PW	WW-PW	WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Cyanide, Total	4500CN C,E	mg/L	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)

QA/QC data available upon request. ND = Not Detected (Method Detection Limit in parentheses)

Reported by: Mark Spano Date: 10/26/06

Mark Spano, Water Quality Section Supervisor

W:\Wastewater\Asplund WWTF\Toxic Pollutants\2006\CN results.doc

Mark Begich
Mayor

ANCHORAGE WATER AND WASTEWATER UTILITY
WATER QUALITY SECTION - LABORATORY SERVICES

ANALYTICAL RESULTS

Date of the Report: 10/26/06

Owned by the
Municipality of Anchorage

Sample ID			AA55383	AA55384	AA55963	AA55964
Sample Location			Pt. Woronzof WWTF Influent	Pt. Woronzof WWTF F. Effluent	Pt. Woronzof WWTF Influent	Pt. Woronzof WWTF F. Effluent
Collection Date			06/27/06	06/27/06	08/15/06	08/15/06
Sample Collector			B. NIZIOL	B. NIZIOL	S.LANG	S.LANG
Project Code			WW-PW	WW-PW	WW-PW	WW-PW
Analysis	**Method**	**Unit**	**Result**	**Result**	**Result**	**Result**
Oil and Grease (O&G)	EPA 1664	mg/L	49.4	19.9	51.9[1]	19.4[1]

[1] Matrix spike recovery (74%) was slightly outside the 78-114 range specified by the method. Check sample recovery was acceptable.

QA/QC data available upon request.

Reported by: Mark Spano Date: 10/26/06

Mark Spano, Water Quality Section Supervisor

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APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B2 Metals

Soil Control Lab

AUGUST SAMPLING, METALS, SOIL CONTROL LAB SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06MET008	INFLUENT	SAMPLE
MOA06MET009	EFFLUENT	SAMPLE
MOA06MET010	SLUDGE	SAMPLE
MOA06MET011	INFLUENT	SAMPLE
MOA06MET012	EFFLUENT	SAMPLE
MOA06MET013	INFLUENT	SAMPLE
MOA06MET014	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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6080468

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 8/17/2006 10:15:00 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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6080468-01	MOA06MET008	Influent	Water	08/15/06 08:00	08/17/06 10:15
6080468-02	MOA06MET009	Effluent	Water	08/16/06 08:00	08/17/06 10:15

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

Date Received: August 17, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET008
Matrix: Water
Laboratory #: 6080468-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	1.3	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.66	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	4.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.55	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.032	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	3.0	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Se)	0.25	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	12	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.81	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	2.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.37	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	4.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	81	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	7.1	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.17	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	7.7	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	1.2	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	4.3	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	200	ug/L	1.0	1	EPA 200.8	08/24/06	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

Date Received: August 17, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET009
Matrix: Water
Laboratory #: 6080468-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	1.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.55	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	26	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.42	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.027	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	2.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	1.1	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	35	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.58	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	2.6	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.24	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	2.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	49	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	2.9	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.10	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	4.2	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	1.4	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	2.3	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	97	ug/L	1.0	1	EPA 200.8	08/24/06	

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Work Order #: 6080468
Reporting Date: October 19, 2006

Metals - Quality Control
Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Blank (PH60239-BLK1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	ND		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
Blank (PH60239-BLK2)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Lead (Pb)	0.2550		0.20	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
LCS (PH60239-BS1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Total Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Total Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Total Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Total Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Total Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Total Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Total Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Total Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Total Silver (Ag)	19.97		0.20	"	20.00		99.8	85-115		20	
Total Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Total Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
LCS Dup (PH60239-BSD1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Total Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Total Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Total Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Total Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Total Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Total Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Total Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Total Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Total Silver (Ag)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Total Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Total Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	
Duplicate (PH60239-DUP1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.5970		0.50	ug/L		0.5830			2.37	20	
Total Arsenic (As)	2.777		0.50	"		2.631			5.40	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	0.2490		0.20	"		0.2360			5.36	20	
Total Chromium (Cr)	2.734		0.50	"		2.788			1.96	20	
Total Copper (Cu)	47.95		0.50	"		48.78			1.72	20	
Total Lead (Pb)	2.936		0.20	"		2.870			2.27	20	
Total Nickel (Ni)	4.275		0.50	"		4.218			1.34	20	
Total Selenium (Se)	0.9980		1.0	"		1.414			34.5	20	QR-04
Total Silver (Ag)	2.356		0.20	"		2.345			0.468	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	95.47		1.0	"		96.86			1.45	20	
Duplicate (PH60239-DUP2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.7350		2.5	ug/L		0.7650			4.00	20	
Total Arsenic (As)	0.4750		2.5	"		0.4150			13.5	20	
Total Beryllium (Be)	ND		2.5	"		ND				20	
Total Cadmium (Cd)	ND		1.0	"		ND				20	
Total Chromium (Cr)	0.7750		2.5	"		0.7800			0.643	20	
Total Copper (Cu)	3.940		2.5	"		3.865			1.92	20	
Total Lead (Pb)	ND		1.0	"		0.8600				20	
Total Nickel (Ni)	21.46		2.5	"		21.68			1.02	20	
Total Selenium (Se)	19.30		5.0	"		18.52			4.12	20	
Total Silver (Ag)	ND		1.0	"		ND				20	
Total Thallium (Tl)	ND		2.5	"		ND				20	
Total Zinc (Zn)	0.7350		5.0	"		1.545			71.1	20	QR-04

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike (PH60239-MS1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.91		0.50	ug/L	20.00	0.5830	91.6	75-125		20	
Total Arsenic (As)	24.86		0.50	"	20.00	2.631	111	75-125		20	
Total Beryllium (Be)	18.50		0.50	"	20.00	ND	92.5	75-125		20	
Total Cadmium (Cd)	18.89		0.20	"	20.00	0.2360	93.3	75-125		20	
Total Chromium (Cr)	24.20		0.50	"	20.00	2.788	107	75-125		20	
Total Copper (Cu)	67.50		0.50	"	20.00	48.78	93.6	75-125		20	
Total Lead (Pb)	20.10		0.20	"	20.00	2.870	86.2	75-125		20	
Total Nickel (Ni)	24.75		0.50	"	20.00	4.218	103	75-125		20	
Total Selenium (Se)	23.15		1.0	"	20.00	1.414	109	75-125		20	
Total Silver (Ag)	19.75		0.20	"	20.00	2.345	87.0	75-125		20	
Total Thallium (Tl)	17.32		0.50	"	20.00	ND	86.6	75-125		20	
Total Zinc (Zn)	198.8		1.0	"	100.0	96.86	102	75-125		20	
Matrix Spike (PH60239-MS2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	98.15		2.5	ug/L	100.0	0.7650	97.4	75-125		20	
Total Arsenic (As)	115.1		2.5	"	100.0	0.4150	115	75-125		20	
Total Beryllium (Be)	85.95		2.5	"	100.0	ND	86.0	75-125		20	
Total Cadmium (Cd)	91.45		1.0	"	100.0	ND	91.4	75-125		20	
Total Chromium (Cr)	110.0		2.5	"	100.0	0.7800	109	75-125		20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125		20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125		20	
Total Nickel (Ni)	125.2		2.5	"	100.0	21.68	104	75-125		20	
Total Selenium (Se)	130.0		5.0	"	100.0	18.52	111	75-125		20	
Total Silver (Ag)	83.70		1.0	"	100.0	ND	83.7	75-125		20	
Total Thallium (Tl)	98.05		2.5	"	100.0	ND	98.0	75-125		20	
Total Zinc (Zn)	509.5		5.0	"	500.0	1.545	102	75-125		20	
Matrix Spike Dup (PH60239-MSD1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	19.10		0.50	ug/L	20.00	0.5830	92.6	75-125	1.00	20	
Total Arsenic (As)	25.33		0.50	"	20.00	2.631	113	75-125	1.87	20	
Total Beryllium (Be)	18.38		0.50	"	20.00	ND	91.9	75-125	0.651	20	
Total Cadmium (Cd)	19.10		0.20	"	20.00	0.2360	94.3	75-125	1.11	20	
Total Chromium (Cr)	24.37		0.50	"	20.00	2.788	108	75-125	0.700	20	
Total Copper (Cu)	67.81		0.50	"	20.00	48.78	95.1	75-125	0.458	20	
Total Lead (Pb)	20.22		0.20	"	20.00	2.870	86.8	75-125	0.595	20	
Total Nickel (Ni)	25.07		0.50	"	20.00	4.218	104	75-125	1.28	20	
Total Selenium (Se)	23.74		1.0	"	20.00	1.414	112	75-125	2.52	20	
Total Silver (Ag)	19.95		0.20	"	20.00	2.345	88.0	75-125	1.01	20	
Total Thallium (Tl)	17.59		0.50	"	20.00	ND	88.0	75-125	1.55	20	
Total Zinc (Zn)	200.2		1.0	"	100.0	96.86	103	75-125	0.702	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike Dup (PH60239-MSD2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	97.50		2.5	ug/L	100.0	0.7650	96.7	75-125	0.664	20	
Total Arsenic (As)	112.6		2.5	"	100.0	0.4150	112	75-125	2.20	20	
Total Beryllium (Be)	84.55		2.5	"	100.0	ND	84.6	75-125	1.64	20	
Total Cadmium (Cd)	90.15		1.0	"	100.0	ND	90.2	75-125	1.43	20	
Total Chromium (Cr)	108.8		2.5	"	100.0	0.7800	108	75-125	1.10	20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125	0.00	20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125	0.00	20	
Total Nickel (Ni)	123.7		2.5	"	100.0	21.68	102	75-125	1.21	20	
Total Selenium (Se)	128.1		5.0	"	100.0	18.52	110	75-125	1.47	20	
Total Silver (Ag)	82.60		1.0	"	100.0	ND	82.6	75-125	1.32	20	
Total Thallium (Tl)	97.50		2.5	"	100.0	ND	97.5	75-125	0.563	20	
Total Zinc (Zn)	512.0		5.0	"	500.0	1.545	102	75-125	0.489	20	
Reference (PH60239-SRM1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	34.69		0.50	ug/L	35.60		97.4	80-120			
Total Arsenic (As)	89.49		0.50	"	90.80		98.6	80-120			
Total Beryllium (Be)	5.855		0.50	"	6.340		92.4	80-120			
Total Cadmium (Cd)	26.74		0.20	"	28.40		94.2	80-120			
Total Chromium (Cr)	145.0		0.50	"	135.0		107	80-120			
Total Copper (Cu)	1744		0.50	"	1620		108	80-120			
Total Lead (Pb)	87.93		0.20	"	86.10		102	80-120			
Total Nickel (Ni)	383.6		0.50	"	354.0		108	80-120			
Total Selenium (Se)	77.88		1.0	"	75.30		103	80-120			
Total Silver (Ag)	241.0		0.20	"	256.0		94.1	80-120			
Total Thallium (Tl)	5.169		0.50	"	5.010		103	80-120			
Total Zinc (Zn)	1770		1.0	"	1640		108	80-120			
Reference (PH60239-SRM2)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	33.73		0.50	ug/L	35.60		94.7	80-120			
Total Arsenic (As)	93.96		0.50	"	90.80		103	80-120			
Total Beryllium (Be)	5.740		0.50	"	6.340		90.5	80-120			
Total Cadmium (Cd)	26.47		0.20	"	28.40		93.2	80-120			
Total Chromium (Cr)	142.2		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1727		0.50	"	1620		107	80-120			
Total Lead (Pb)	83.70		0.20	"	86.10		97.2	80-120			
Total Nickel (Ni)	377.9		0.50	"	354.0		107	80-120			
Total Selenium (Se)	77.78		1.0	"	75.30		103	80-120			
Total Silver (Ag)	238.0		0.20	"	256.0		93.0	80-120			
Total Thallium (Tl)	4.847		0.50	"	5.010		96.7	80-120			
Total Zinc (Zn)	1743		1.0	"	1640		106	80-120			

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Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Reference (PH60239-SRM3)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Total Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Total Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Total Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1681		0.50	"	1620		104	80-120			
Total Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Total Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Total Silver (Ag)	259.6		0.20	"	256.0		101	80-120			
Total Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Total Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60239-SRM4)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Total Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Total Copper (Cu)	1753		0.50	"	1620		108	80-120			
Total Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Total Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Total Silver (Ag)	257.2		0.20	"	256.0		100	80-120			
Total Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Total Zinc (Zn)	1742		1.0	"	1640		106	80-120			

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Blank (PH60240-BLK1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60240-BS1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Dissolved Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Dissolved Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Dissolved Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Dissolved Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Dissolved Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Dissolved Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Dissolved Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Dissolved Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Dissolved Silver (Se)	19.97		0.20	"	20.00		99.8	85-115		20	
Dissolved Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Dissolved Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	
LCS Dup (PH60240-BSD1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Dissolved Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Dissolved Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Dissolved Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Dissolved Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Dissolved Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Dissolved Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Dissolved Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Dissolved Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Dissolved Silver (Se)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Dissolved Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Dissolved Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Duplicate (PH60240-DUP1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	0.3870		0.50	ug/L		0.4300			10.5	20	
Dissolved Arsenic (As)	1.334		0.50	"		1.285			3.74	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	0.6200		0.50	"		0.6560			5.64	20	
Dissolved Copper (Cu)	4.716		0.50	"		4.771			1.16	20	
Dissolved Lead (Pb)	0.5040		0.20	"		0.5470			8.18	20	
Dissolved Nickel (Ni)	2.997		0.50	"		3.027			0.996	20	
Dissolved Selenium (Se)	0.5770		1.0	"		0.6040			4.57	20	
Dissolved Silver (Se)	0.2400		0.20	"		0.2490			3.68	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	11.55		1.0	"		12.30			6.29	20	
Matrix Spike (PH60240-MS1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	18.69		0.50	ug/L	20.00	0.4300	91.3	75-125		20	
Dissolved Arsenic (As)	23.06		0.50	"	20.00	1.285	109	75-125		20	
Dissolved Beryllium (Be)	20.15		0.50	"	20.00	ND	101	75-125		20	
Dissolved Cadmium (Cd)	19.24		0.20	"	20.00	ND	96.2	75-125		20	
Dissolved Chromium (Cr)	21.03		0.50	"	20.00	0.6560	102	75-125		20	
Dissolved Copper (Cu)	24.55		0.50	"	20.00	4.771	98.9	75-125		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00	0.5470	93.8	75-125		20	
Dissolved Nickel (Ni)	22.75		0.50	"	20.00	3.027	98.6	75-125		20	
Dissolved Selenium (Se)	23.12		1.0	"	20.00	0.6040	113	75-125		20	
Dissolved Silver (Se)	11.76		0.20	"	20.00	0.2490	57.6	75-125		20	QM-01
Dissolved Thallium (Tl)	18.80		0.50	"	20.00	ND	94.0	75-125		20	
Dissolved Zinc (Zn)	116.4		1.0	"	100.0	12.30	104	75-125		20	
Matrix Spike Dup (PH60240-MSD1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	18.48		0.50	ug/L	20.00	0.4300	90.2	75-125	1.13	20	
Dissolved Arsenic (As)	22.83		0.50	"	20.00	1.285	108	75-125	1.00	20	
Dissolved Beryllium (Be)	19.74		0.50	"	20.00	ND	98.7	75-125	2.06	20	
Dissolved Cadmium (Cd)	18.81		0.20	"	20.00	ND	94.0	75-125	2.26	20	
Dissolved Chromium (Cr)	20.71		0.50	"	20.00	0.6560	100	75-125	1.53	20	
Dissolved Copper (Cu)	24.50		0.50	"	20.00	4.771	98.6	75-125	0.204	20	
Dissolved Lead (Pb)	19.23		0.20	"	20.00	0.5470	93.4	75-125	0.415	20	
Dissolved Nickel (Ni)	22.72		0.50	"	20.00	3.027	98.5	75-125	0.132	20	
Dissolved Selenium (Se)	23.88		1.0	"	20.00	0.6040	116	75-125	3.23	20	
Dissolved Silver (Se)	14.35		0.20	"	20.00	0.2490	70.5	75-125	19.8	20	QM-01
Dissolved Thallium (Tl)	18.58		0.50	"	20.00	ND	92.9	75-125	1.18	20	
Dissolved Zinc (Zn)	114.2		1.0	"	100.0	12.30	102	75-125	1.91	20	

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Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Reference (PH60240-SRM1)					Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Dissolved Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Dissolved Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Dissolved Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Dissolved Copper (Cu)	1681		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Dissolved Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	259.6		0.20	"	256.0		101	80-120			
Dissolved Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Dissolved Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60240-SRM2)					Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Dissolved Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Dissolved Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Dissolved Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Dissolved Copper (Cu)	1690		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Dissolved Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	257.2		0.20	"	256.0		100	80-120			
Dissolved Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Dissolved Zinc (Zn)	1742		1.0	"	1640		106	80-120			

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Attn: Tim Mayers

Work Order #: 6080468
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60299 - EPA 245.7											
Blank (PH60299-BLK1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60299-DUP1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.0370		0.010	ug/L		0.0328			12.0	25	
Matrix Spike (PH60299-MS1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.112		0.010	ug/L	0.100	0.0328	79.2	75-125		20	
Matrix Spike Dup (PH60299-MSD1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.114		0.010	ug/L	0.100	0.0328	81.2	75-125	1.77	20	
Reference (PH60299-SRM1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			
Batch PH60300 - EPA 245.7											
Blank (PH60300-BLK1)					Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60300-DUP1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.0816		0.050	ug/L		0.0986			18.9	25	
Matrix Spike (PH60300-MS1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.584		0.050	ug/L	0.500	0.0986	97.1	75-125		20	
Matrix Spike Dup (PH60300-MSD1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.583		0.050	ug/L	0.500	0.0986	96.9	75-125	0.171	20	

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Work Order #: 6080468
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60300 - EPA 245.7											
Reference (PH60300-SRM1)				Prepared & Analyzed: 22-Aug-06							
Total Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			

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Work Order #: 6080468
Reporting Date: October 19, 2006

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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

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2381 6080468

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: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1015 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: Antimony and thallium (EPA 200.8) and selenium (EPA 270.3), arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), and zinc (SM18 3111B). Detection limit 10 µg/L.

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
MOA06MET008	Influent	1	8/15-16/06	0800-0800	Intact	6080468-01
MOA06MET009	Effluent	1	"	"	↓	6080468-02

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
Susan Lang	8/16/06/1035	hand	M. [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/16/06 1300	FED EX	[illegible]	8/17/06 1015
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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: Tim Mayers

November 02, 2006

RE: None provided (sediment) / 516.01
Workorder: 6080467

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 8/17/2006 10:15:00 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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6080467-01	MOA06MET010	Sludge	Sludge	08/16/06 00:00	08/17/06 10:15

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

Date Received: August 17, 2006
Project # / Name: 516.01 / None provided (sediment)
Sample Identification: MOA06MET010
Matrix: Sludge
Laboratory #: 6080467-01

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.22	mg/kg dry	0.018	0.0036	0.588	EPA 335.2	08/28/06	
Percent Solids	33	% by Wt	0.10	0.0050	1	EPA 160.3	08/22/06	
Total Antimony (Sb)	1.6	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Arsenic (As)	4.4	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Beryllium (Be)	ND	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Cadmium (Cd)	1.6	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Chromium (Cr)	25	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Copper (Cu)	230	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Lead (Pb)	25	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Mercury (Hg)	910	ug/kg dry	95	7.9	256	EPA 7471A	08/25/06	
Total Nickel (Ni)	14	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Selenium (Se)	4.5	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Silver (Ag)	11	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Thallium (Tl)	2.1	mg/kg dry	0.79	0.079	25.6	EPA 6020	08/25/06	
Total Zinc (Zn)	570	mg/kg dry	3.9	0.39	25.6	EPA 6020	08/25/06	

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Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

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 PH60284 - NO PREP											
Blank (PH60284-BLK1)					Prepared & Analyzed: 22-Aug-06						
Percent Solids	ND	0.0050	0.10	% by Wt							
Duplicate (PH60284-DUP1)		**Source: 6080467-01**			Prepared & Analyzed: 22-Aug-06						
Percent Solids	32.51	0.0050	0.10	% by Wt		32.54			0.0922	20	
Batch PJ60101 - NO PREP											
Blank (PJ60101-BLK1)					Prepared & Analyzed: 28-Aug-06						
Cyanide (total)	ND		0.010	mg/kg wet							
Duplicate (PJ60101-DUP1)		**Source: 6080467-01**			Prepared & Analyzed: 28-Aug-06						
Cyanide (total)	0.2380		0.018	mg/kg dry		0.2200			7.86	20	
Matrix Spike (PJ60101-MS1)		**Source: 6080467-01**			Prepared & Analyzed: 28-Aug-06						
Cyanide (total)	1.742		0.18	mg/kg dry	1.810	0.2200	84.1	70-130			
Matrix Spike Dup (PJ60101-MSD1)		**Source: 6080467-01**			Prepared & Analyzed: 28-Aug-06						
Cyanide (total)	1.815		0.18	mg/kg dry	1.810	0.2200	88.1	70-130	4.10	20	
Reference (PJ60101-SRM1)					Prepared & Analyzed: 28-Aug-06						
Cyanide (total)	0.09126		0.010	mg/kg wet	0.09660		94.5	70-130			

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Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60242 - EPA 3050B											
Blank (PH60242-BLK1)				Prepared & Analyzed: 25-Aug-06							
Total Antimony (Sb)	ND		0.40	mg/kg wet							
Total Arsenic (As)	ND		0.40	"							
Total Beryllium (Be)	ND		0.40	"							
Total Cadmium (Cd)	ND		0.40	"							
Total Chromium (Cr)	ND		0.40	"							
Total Copper (Cu)	ND		0.40	"							
Total Lead (Pb)	ND		0.40	"							
Total Nickel (Ni)	0.8430		0.40	"							
Total Selenium (Se)	ND		0.40	"							
Total Silver (Ag)	ND		0.40	"							
Total Thallium (Tl)	0.4030		0.40	"							
Total Zinc (Zn)	ND		2.0	"							
LCS (PH60242-BS1)				Prepared & Analyzed: 25-Aug-06							
Total Antimony (Sb)	104.4		0.40	mg/kg wet	100.0		104	70-130		20	
Total Arsenic (As)	9.776		0.40	"	10.00		97.8	70-130		20	
Total Beryllium (Be)	9.417		0.40	"	10.00		94.2	70-130		20	
Total Cadmium (Cd)	9.568		0.40	"	10.00		95.7	70-130		20	
Total Chromium (Cr)	101.5		0.40	"	100.0		102	70-130		20	
Total Copper (Cu)	101.9		0.40	"	100.0		102	70-130		20	
Total Lead (Pb)	52.03		0.40	"	50.00		104	70-130		20	
Total Nickel (Ni)	102.4		0.40	"	100.0		102	70-130		20	
Total Selenium (Se)	4.830		0.40	"	5.000		96.6	70-130		20	
Total Silver (Ag)	10.10		0.40	"	10.00		101	70-130		20	
Total Thallium (Tl)	95.10		0.40	"	100.0		95.1	70-130		20	
Total Zinc (Zn)	101.9		2.0	"	100.0		102	70-130		20	
LCS Dup (PH60242-BSD1)				Prepared & Analyzed: 25-Aug-06							
Total Antimony (Sb)	102.8		0.40	mg/kg wet	100.0		103	70-130	1.54	20	
Total Arsenic (As)	9.637		0.40	"	10.00		96.4	70-130	1.43	20	
Total Beryllium (Be)	9.467		0.40	"	10.00		94.7	70-130	0.530	20	
Total Cadmium (Cd)	9.458		0.40	"	10.00		94.6	70-130	1.16	20	
Total Chromium (Cr)	99.94		0.40	"	100.0		99.9	70-130	1.55	20	
Total Copper (Cu)	100.5		0.40	"	100.0		100	70-130	1.38	20	
Total Lead (Pb)	51.49		0.40	"	50.00		103	70-130	1.04	20	
Total Nickel (Ni)	100.2		0.40	"	100.0		100	70-130	2.17	20	
Total Selenium (Se)	4.903		0.40	"	5.000		98.1	70-130	1.50	20	
Total Silver (Ag)	9.994		0.40	"	10.00		99.9	70-130	1.06	20	
Total Thallium (Tl)	95.25		0.40	"	100.0		95.2	70-130	0.158	20	
Total Zinc (Zn)	99.49		2.0	"	100.0		99.5	70-130	2.39	20	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60242 - EPA 3050B											
Matrix Spike (PH60242-MS1)		**Source: 6080467-01**			Prepared & Analyzed: 25-Aug-06						
Total Antimony (Sb)	148.7		0.77	mg/kg dry	192.3	1.617	76.5	70-130		20	
Total Arsenic (As)	22.13		0.77	"	19.23	4.410	92.1	70-130		20	
Total Beryllium (Be)	18.66		0.77	"	19.23	0.08284	96.6	70-130		20	
Total Cadmium (Cd)	19.92		0.77	"	19.23	1.560	95.5	70-130		20	
Total Chromium (Cr)	210.2		0.77	"	192.3	25.07	96.3	70-130		20	
Total Copper (Cu)	405.0		0.77	"	192.3	233.7	89.1	70-130		20	
Total Lead (Pb)	125.1		0.77	"	96.15	24.87	104	70-130		20	
Total Nickel (Ni)	199.6		0.77	"	192.3	14.02	96.5	70-130		20	
Total Selenium (Se)	11.83		0.77	"	9.615	4.456	76.7	70-130		20	
Total Silver (Ag)	30.67		0.77	"	19.23	11.25	101	70-130		20	
Total Thallium (Tl)	179.8		0.77	"	192.3	2.122	92.4	70-130		20	
Total Zinc (Zn)	741.0		3.8	"	192.3	570.8	88.5	70-130		20	
Matrix Spike Dup (PH60242-MSD1)		**Source: 6080467-01**			Prepared & Analyzed: 25-Aug-06						
Total Antimony (Sb)	139.7		0.75	mg/kg dry	186.5	1.617	74.0	70-130	6.24	20	
Total Arsenic (As)	21.45		0.75	"	18.65	4.410	91.4	70-130	3.12	20	
Total Beryllium (Be)	17.80		0.75	"	18.65	0.08284	95.0	70-130	4.72	20	
Total Cadmium (Cd)	18.91		0.75	"	18.65	1.560	93.0	70-130	5.20	20	
Total Chromium (Cr)	204.0		0.75	"	186.5	25.07	95.9	70-130	2.99	20	
Total Copper (Cu)	402.6		0.75	"	186.5	233.7	90.6	70-130	0.594	20	
Total Lead (Pb)	119.4		0.75	"	93.24	24.87	101	70-130	4.66	20	
Total Nickel (Ni)	192.8		0.75	"	186.5	14.02	95.9	70-130	3.47	20	
Total Selenium (Se)	12.67		0.75	"	9.324	4.456	88.1	70-130	6.86	20	
Total Silver (Ag)	28.79		0.75	"	18.65	11.25	94.0	70-130	6.32	20	
Total Thallium (Tl)	171.7		0.75	"	186.5	2.122	90.9	70-130	4.61	20	
Total Zinc (Zn)	732.1		3.7	"	186.5	570.8	86.5	70-130	1.21	20	
Reference (PH60242-SRM1)					Prepared & Analyzed: 25-Aug-06						
Total Antimony (Sb)	84.80		2.0	mg/kg wet	105.0		80.8	70-130			
Total Arsenic (As)	297.4		2.0	"	283.0		105	70-130			
Total Beryllium (Be)	49.62		2.0	"	46.70		106	70-130			
Total Cadmium (Cd)	54.25		2.0	"	50.70		107	70-130			
Total Chromium (Cr)	68.05		2.0	"	64.80		105	70-130			
Total Copper (Cu)	177.2		2.0	"	169.0		105	70-130			
Total Lead (Pb)	95.70		2.0	"	84.70		113	70-130			
Total Nickel (Ni)	65.50		2.0	"	58.80		111	70-130			
Total Selenium (Se)	133.6		2.0	"	124.0		108	70-130			
Total Silver (Ag)	102.6		2.0	"	92.20		111	70-130			
Total Thallium (Tl)	101.0		2.0	"	90.40		112	70-130			
Total Zinc (Zn)	165.0		10	"	149.0		111	70-130			

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080467
Reporting Date: November 2, 2006

Metals - Quality Control
Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60242 - EPA 3050B											
Reference (PH60242-SRM2)					Prepared & Analyzed: 25-Aug-06						
Total Antimony (Sb)	84.80		2.0	mg/kg wet	105.0		80.8	70-130			
Total Arsenic (As)	297.4		2.0	"	283.0		105	70-130			
Total Beryllium (Be)	49.62		2.0	"	46.70		106	70-130			
Total Cadmium (Cd)	54.25		2.0	"	50.70		107	70-130			
Total Chromium (Cr)	68.05		2.0	"	64.80		105	70-130			
Total Copper (Cu)	177.2		2.0	"	169.0		105	70-130			
Total Lead (Pb)	95.70		2.0	"	84.70		113	70-130			
Total Nickel (Ni)	65.50		2.0	"	58.80		111	70-130			
Total Selenium (Se)	133.6		2.0	"	124.0		108	70-130			
Total Silver (Ag)	102.6		2.0	"	92.20		111	70-130			
Total Thallium (Tl)	101.0		2.0	"	90.40		112	70-130			
Total Zinc (Zn)	165.0		10	"	149.0		111	70-130			
Batch PH60296 - Default Prep Metals											
Blank (PH60296-BLK1)					Prepared & Analyzed: 25-Aug-06						
Total Mercury (Hg)	ND		0.12	ug/kg wet							
Duplicate (PH60296-DUP1)		**Source: 6080467-01**			Prepared & Analyzed: 25-Aug-06						
Total Mercury (Hg)	901.4		95	ug/kg dry		905.3			0.432	25	
Matrix Spike (PH60296-MS1)		**Source: 6080467-01**			Prepared & Analyzed: 25-Aug-06						
Total Mercury (Hg)	2110		95	ug/kg dry	1183	905.3	102	75-125		25	
Matrix Spike Dup (PH60296-MSD1)		**Source: 6080467-01**			Prepared & Analyzed: 25-Aug-06						
Total Mercury (Hg)	2091		95	ug/kg dry	1183	905.3	100	75-125	0.905	25	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60296 - Default Prep Metals											
Reference (PH60296-SRM1)					Prepared & Analyzed: 25-Aug-06						
Total Mercury (Hg)	13.12		0.96	ug/kg wet	11.50		114	80-120			

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381 6080467

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: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1015 | **KLI Proj. #:** 516.01

ANALYSIS TYPE: Metals: Antimony and thallium (EPA 6020) and selenium (EPA 7741), arsenic (EPA 7060A), beryllium (EPA 7091), cadmium (EPA 7130A), chromium (EPA 7190), copper (7210), lead (EPA 7421), mercury (EPA 7470A), nickel (7520), silver (EPA 7761), zinc (EPA 7950), CN (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:** 125-mL glass

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06MET010	Sludge	1	8/15-16/06	8 grabs see COC	Intact	6080467-01

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
Susan Lang	8/16/06 / 1035	hand	M. [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/16/06 1300	FED EX	[illegible]	8/17/06, 1015
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6080553

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 8/18/2006 2:30:00 PM.

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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6080553-01	MOA06MET011	Influent	Water	08/17/06 09:15	08/18/06 14:30
6080553-02	MOA06MET012	Effluent	Water	08/17/06 09:15	08/18/06 14:30

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

Date Received: August 18, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET011
Matrix: Water
Laboratory #: 6080553-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	1.3	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.58	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	4.2	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.65	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.027	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	2.4	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	13	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.81	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	3.0	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.43	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	5.5	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	85	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	7.8	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.12	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	5.4	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	2.5	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	190	ug/L	1.0	1	EPA 200.8	08/24/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

Date Received: August 18, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET012
Matrix: Water
Laboratory #: 6080553-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	1.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.62	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	24	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.70	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.037	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	2.6	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	1.2	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	33	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.59	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	2.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.24	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	2.0	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	58	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	3.2	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.099	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	3.6	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	1.3	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	2.0	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	96	ug/L	1.0	1	EPA 200.8	08/24/06	

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Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Blank (PH60239-BLK1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	ND		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
Blank (PH60239-BLK2)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Lead (Pb)	0.2550		0.20	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
LCS (PH60239-BS1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Total Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Total Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Total Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Total Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Total Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Total Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Total Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Total Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Total Silver (Ag)	19.97		0.20	"	20.00		99.8	85-115		20	
Total Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Total Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	

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Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
LCS Dup (PH60239-BSD1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Total Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Total Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Total Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Total Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Total Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Total Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Total Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Total Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Total Silver (Ag)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Total Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Total Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	
Duplicate (PH60239-DUP1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.5970		0.50	ug/L		0.5830			2.37	20	
Total Arsenic (As)	2.777		0.50	"		2.631			5.40	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	0.2490		0.20	"		0.2360			5.36	20	
Total Chromium (Cr)	2.734		0.50	"		2.788			1.96	20	
Total Copper (Cu)	47.95		0.50	"		48.78			1.72	20	
Total Lead (Pb)	2.936		0.20	"		2.870			2.27	20	
Total Nickel (Ni)	4.275		0.50	"		4.218			1.34	20	
Total Selenium (Se)	0.9980		1.0	"		1.414			34.5	20	QR-04
Total Silver (Ag)	2.356		0.20	"		2.345			0.468	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	95.47		1.0	"		96.86			1.45	20	
Duplicate (PH60239-DUP2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.7350		2.5	ug/L		0.7650			4.00	20	
Total Arsenic (As)	0.4750		2.5	"		0.4150			13.5	20	
Total Beryllium (Be)	ND		2.5	"		ND				20	
Total Cadmium (Cd)	ND		1.0	"		ND				20	
Total Chromium (Cr)	0.7750		2.5	"		0.7800			0.643	20	
Total Copper (Cu)	3.940		2.5	"		3.865			1.92	20	
Total Lead (Pb)	ND		1.0	"		0.8600				20	
Total Nickel (Ni)	21.46		2.5	"		21.68			1.02	20	
Total Selenium (Se)	19.30		5.0	"		18.52			4.12	20	
Total Silver (Ag)	ND		1.0	"		ND				20	
Total Thallium (Tl)	ND		2.5	"		ND				20	
Total Zinc (Zn)	0.7350		5.0	"		1.545			71.1	20	QR-04

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Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike (PH60239-MS1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.91		0.50	ug/L	20.00	0.5830	91.6	75-125		20	
Total Arsenic (As)	24.86		0.50	"	20.00	2.631	111	75-125		20	
Total Beryllium (Be)	18.50		0.50	"	20.00	ND	92.5	75-125		20	
Total Cadmium (Cd)	18.89		0.20	"	20.00	0.2360	93.3	75-125		20	
Total Chromium (Cr)	24.20		0.50	"	20.00	2.788	107	75-125		20	
Total Copper (Cu)	67.50		0.50	"	20.00	48.78	93.6	75-125		20	
Total Lead (Pb)	20.10		0.20	"	20.00	2.870	86.2	75-125		20	
Total Nickel (Ni)	24.75		0.50	"	20.00	4.218	103	75-125		20	
Total Selenium (Se)	23.15		1.0	"	20.00	1.414	109	75-125		20	
Total Silver (Ag)	19.75		0.20	"	20.00	2.345	87.0	75-125		20	
Total Thallium (Tl)	17.32		0.50	"	20.00	ND	86.6	75-125		20	
Total Zinc (Zn)	198.8		1.0	"	100.0	96.86	102	75-125		20	
Matrix Spike (PH60239-MS2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	98.15		2.5	ug/L	100.0	0.7650	97.4	75-125		20	
Total Arsenic (As)	115.1		2.5	"	100.0	0.4150	115	75-125		20	
Total Beryllium (Be)	85.95		2.5	"	100.0	ND	86.0	75-125		20	
Total Cadmium (Cd)	91.45		1.0	"	100.0	ND	91.4	75-125		20	
Total Chromium (Cr)	110.0		2.5	"	100.0	0.7800	109	75-125		20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125		20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125		20	
Total Nickel (Ni)	125.2		2.5	"	100.0	21.68	104	75-125		20	
Total Selenium (Se)	130.0		5.0	"	100.0	18.52	111	75-125		20	
Total Silver (Ag)	83.70		1.0	"	100.0	ND	83.7	75-125		20	
Total Thallium (Tl)	98.05		2.5	"	100.0	ND	98.0	75-125		20	
Total Zinc (Zn)	509.5		5.0	"	500.0	1.545	102	75-125		20	
Matrix Spike Dup (PH60239-MSD1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	19.10		0.50	ug/L	20.00	0.5830	92.6	75-125	1.00	20	
Total Arsenic (As)	25.33		0.50	"	20.00	2.631	113	75-125	1.87	20	
Total Beryllium (Be)	18.38		0.50	"	20.00	ND	91.9	75-125	0.651	20	
Total Cadmium (Cd)	19.10		0.20	"	20.00	0.2360	94.3	75-125	1.11	20	
Total Chromium (Cr)	24.37		0.50	"	20.00	2.788	108	75-125	0.700	20	
Total Copper (Cu)	67.81		0.50	"	20.00	48.78	95.1	75-125	0.458	20	
Total Lead (Pb)	20.22		0.20	"	20.00	2.870	86.8	75-125	0.595	20	
Total Nickel (Ni)	25.07		0.50	"	20.00	4.218	104	75-125	1.28	20	
Total Selenium (Se)	23.74		1.0	"	20.00	1.414	112	75-125	2.52	20	
Total Silver (Ag)	19.95		0.20	"	20.00	2.345	88.0	75-125	1.01	20	
Total Thallium (Tl)	17.59		0.50	"	20.00	ND	88.0	75-125	1.55	20	
Total Zinc (Zn)	200.2		1.0	"	100.0	96.86	103	75-125	0.702	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike Dup (PH60239-MSD2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	97.50		2.5	ug/L	100.0	0.7650	96.7	75-125	0.664	20	
Total Arsenic (As)	112.6		2.5	"	100.0	0.4150	112	75-125	2.20	20	
Total Beryllium (Be)	84.55		2.5	"	100.0	ND	84.6	75-125	1.64	20	
Total Cadmium (Cd)	90.15		1.0	"	100.0	ND	90.2	75-125	1.43	20	
Total Chromium (Cr)	108.8		2.5	"	100.0	0.7800	108	75-125	1.10	20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125	0.00	20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125	0.00	20	
Total Nickel (Ni)	123.7		2.5	"	100.0	21.68	102	75-125	1.21	20	
Total Selenium (Se)	128.1		5.0	"	100.0	18.52	110	75-125	1.47	20	
Total Silver (Ag)	82.60		1.0	"	100.0	ND	82.6	75-125	1.32	20	
Total Thallium (Tl)	97.50		2.5	"	100.0	ND	97.5	75-125	0.563	20	
Total Zinc (Zn)	512.0		5.0	"	500.0	1.545	102	75-125	0.489	20	
Reference (PH60239-SRM1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	34.69		0.50	ug/L	35.60		97.4	80-120			
Total Arsenic (As)	89.49		0.50	"	90.80		98.6	80-120			
Total Beryllium (Be)	5.855		0.50	"	6.340		92.4	80-120			
Total Cadmium (Cd)	26.74		0.20	"	28.40		94.2	80-120			
Total Chromium (Cr)	145.0		0.50	"	135.0		107	80-120			
Total Copper (Cu)	1744		0.50	"	1620		108	80-120			
Total Lead (Pb)	87.93		0.20	"	86.10		102	80-120			
Total Nickel (Ni)	383.6		0.50	"	354.0		108	80-120			
Total Selenium (Se)	77.88		1.0	"	75.30		103	80-120			
Total Silver (Ag)	241.0		0.20	"	256.0		94.1	80-120			
Total Thallium (Tl)	5.169		0.50	"	5.010		103	80-120			
Total Zinc (Zn)	1770		1.0	"	1640		108	80-120			
Reference (PH60239-SRM2)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	33.73		0.50	ug/L	35.60		94.7	80-120			
Total Arsenic (As)	93.96		0.50	"	90.80		103	80-120			
Total Beryllium (Be)	5.740		0.50	"	6.340		90.5	80-120			
Total Cadmium (Cd)	26.47		0.20	"	28.40		93.2	80-120			
Total Chromium (Cr)	142.2		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1727		0.50	"	1620		107	80-120			
Total Lead (Pb)	83.70		0.20	"	86.10		97.2	80-120			
Total Nickel (Ni)	377.9		0.50	"	354.0		107	80-120			
Total Selenium (Se)	77.78		1.0	"	75.30		103	80-120			
Total Silver (Ag)	238.0		0.20	"	256.0		93.0	80-120			
Total Thallium (Tl)	4.847		0.50	"	5.010		96.7	80-120			
Total Zinc (Zn)	1743		1.0	"	1640		106	80-120			

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Reference (PH60239-SRM3)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Total Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Total Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Total Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1681		0.50	"	1620		104	80-120			
Total Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Total Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Total Silver (Ag)	259.6		0.20	"	256.0		101	80-120			
Total Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Total Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60239-SRM4)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Total Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Total Copper (Cu)	1753		0.50	"	1620		108	80-120			
Total Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Total Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Total Silver (Ag)	257.2		0.20	"	256.0		100	80-120			
Total Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Total Zinc (Zn)	1742		1.0	"	1640		106	80-120			

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Metals - Quality Control
Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Blank (PH60240-BLK1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60240-BS1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Dissolved Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Dissolved Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Dissolved Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Dissolved Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Dissolved Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Dissolved Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Dissolved Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Dissolved Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Dissolved Silver (Se)	19.97		0.20	"	20.00		99.8	85-115		20	
Dissolved Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Dissolved Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	
LCS Dup (PH60240-BSD1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Dissolved Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Dissolved Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Dissolved Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Dissolved Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Dissolved Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Dissolved Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Dissolved Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Dissolved Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Dissolved Silver (Se)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Dissolved Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Dissolved Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	

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Metals - Quality Control
Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Duplicate (PH60240-DUP1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	0.3870		0.50	ug/L		0.4300			10.5	20	
Dissolved Arsenic (As)	1.334		0.50	"		1.285			3.74	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	0.6200		0.50	"		0.6560			5.64	20	
Dissolved Copper (Cu)	4.716		0.50	"		4.771			1.16	20	
Dissolved Lead (Pb)	0.5040		0.20	"		0.5470			8.18	20	
Dissolved Nickel (Ni)	2.997		0.50	"		3.027			0.996	20	
Dissolved Selenium (Se)	0.5770		1.0	"		0.6040			4.57	20	
Dissolved Silver (Se)	0.2400		0.20	"		0.2490			3.68	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	11.55		1.0	"		12.30			6.29	20	
Matrix Spike (PH60240-MS1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	18.69		0.50	ug/L	20.00	0.4300	91.3	75-125		20	
Dissolved Arsenic (As)	23.06		0.50	"	20.00	1.285	109	75-125		20	
Dissolved Beryllium (Be)	20.15		0.50	"	20.00	ND	101	75-125		20	
Dissolved Cadmium (Cd)	19.24		0.20	"	20.00	ND	96.2	75-125		20	
Dissolved Chromium (Cr)	21.03		0.50	"	20.00	0.6560	102	75-125		20	
Dissolved Copper (Cu)	24.55		0.50	"	20.00	4.771	98.9	75-125		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00	0.5470	93.8	75-125		20	
Dissolved Nickel (Ni)	22.75		0.50	"	20.00	3.027	98.6	75-125		20	
Dissolved Selenium (Se)	23.12		1.0	"	20.00	0.6040	113	75-125		20	
Dissolved Silver (Se)	11.76		0.20	"	20.00	0.2490	57.6	75-125		20	QM-01
Dissolved Thallium (Tl)	18.80		0.50	"	20.00	ND	94.0	75-125		20	
Dissolved Zinc (Zn)	116.4		1.0	"	100.0	12.30	104	75-125		20	
Matrix Spike Dup (PH60240-MSD1)		**Source: 6080468-01**			Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	18.48		0.50	ug/L	20.00	0.4300	90.2	75-125	1.13	20	
Dissolved Arsenic (As)	22.83		0.50	"	20.00	1.285	108	75-125	1.00	20	
Dissolved Beryllium (Be)	19.74		0.50	"	20.00	ND	98.7	75-125	2.06	20	
Dissolved Cadmium (Cd)	18.81		0.20	"	20.00	ND	94.0	75-125	2.26	20	
Dissolved Chromium (Cr)	20.71		0.50	"	20.00	0.6560	100	75-125	1.53	20	
Dissolved Copper (Cu)	24.50		0.50	"	20.00	4.771	98.6	75-125	0.204	20	
Dissolved Lead (Pb)	19.23		0.20	"	20.00	0.5470	93.4	75-125	0.415	20	
Dissolved Nickel (Ni)	22.72		0.50	"	20.00	3.027	98.5	75-125	0.132	20	
Dissolved Selenium (Se)	23.88		1.0	"	20.00	0.6040	116	75-125	3.23	20	
Dissolved Silver (Se)	14.35		0.20	"	20.00	0.2490	70.5	75-125	19.8	20	QM-01
Dissolved Thallium (Tl)	18.58		0.50	"	20.00	ND	92.9	75-125	1.18	20	
Dissolved Zinc (Zn)	114.2		1.0	"	100.0	12.30	102	75-125	1.91	20	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Reference (PH60240-SRM1)					Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Dissolved Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Dissolved Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Dissolved Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Dissolved Copper (Cu)	1681		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Dissolved Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	259.6		0.20	"	256.0		101	80-120			
Dissolved Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Dissolved Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60240-SRM2)					Prepared & Analyzed: 24-Aug-06						
Dissolved Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Dissolved Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Dissolved Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Dissolved Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Dissolved Copper (Cu)	1690		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Dissolved Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	257.2		0.20	"	256.0		100	80-120			
Dissolved Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Dissolved Zinc (Zn)	1742		1.0	"	1640		106	80-120			

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60299 - EPA 245.7											
Blank (PH60299-BLK1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60299-DUP1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.0370		0.010	ug/L		0.0328			12.0	25	
Matrix Spike (PH60299-MS1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.112		0.010	ug/L	0.100	0.0328	79.2	75-125		20	
Matrix Spike Dup (PH60299-MSD1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.114		0.010	ug/L	0.100	0.0328	81.2	75-125	1.77	20	
Reference (PH60299-SRM1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			
Batch PH60300 - EPA 245.7											
Blank (PH60300-BLK1)					Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60300-DUP1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.0816		0.050	ug/L		0.0986			18.9	25	
Matrix Spike (PH60300-MS1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.584		0.050	ug/L	0.500	0.0986	97.1	75-125		20	
Matrix Spike Dup (PH60300-MSD1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.583		0.050	ug/L	0.500	0.0986	96.9	75-125	0.171	20	

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Work Order #: 6080553
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60300 - EPA 245.7											
Reference (PH60300-SRM1)				Prepared & Analyzed: 22-Aug-06							
Total Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			

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1102 West 7th Avenue
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Attn: Tim Mayers

Work Order #: 6080553
Reporting Date: October 19, 2006

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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

2381 6080553 0°C FedEx

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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1015	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: Antimony and thallium (EPA 200.8) and selenium (EPA 270.3), arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), and zinc (SM18 3111B). Detection limit 10 µg/L.

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
MOA06MET011	Influent	1	8-16/17/06	0915-0915	Intact	6080553-01
MOA06MET012	Effluent	1	8/16-17/06	0915-0915	"	6080553-02

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
Susan Long	8/17/06	Hand	[signature]	8/17/06 1000
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	8/17/06 1130	FEDEX	Shenda	8-18-06 1430
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Long / Susan Long

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: Tim Mayers

October 19, 2006

RE: None provided / 516.01
Workorder: 6080559

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 8/19/2006 11:15:00 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

Lab Manager

Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6080559-01	MOA06MET013	Influent	Water	08/18/06 12:45	08/19/06 11:15
6080559-02	MOA06MET014	Effluent	Water	08/18/06 12:45	08/19/06 11:15

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Date Received: August 19, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET013
Matrix: Water
Laboratory #: 6080559-01

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	1.4	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.56	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	3.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.22	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.037	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	4.8	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Se)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	11	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.72	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	3.1	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.30	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	4.3	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	75	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	1.8	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.12	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	9.7	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	6.5	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	190	ug/L	1.0	1	EPA 200.8	08/24/06	

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Date Received: August 19, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06MET014
Matrix: Water
Laboratory #: 6080559-02

	Results	Units	RL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Dissolved Antimony (Sb)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Arsenic (As)	2.0	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Cadmium (Cd)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Chromium (Cr)	0.52	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Copper (Cu)	19	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Lead (Pb)	0.28	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Mercury (Hg)	0.033	ug/L	0.010	2	EPA 245.7	08/22/06	
Dissolved Nickel (Ni)	2.7	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Selenium (Se)	ND	ug/L	1.0	1	EPA 200.8	08/24/06	
Dissolved Silver (Sc)	ND	ug/L	0.20	1	EPA 200.8	08/24/06	
Dissolved Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Dissolved Zinc (Zn)	30	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Antimony (Sb)	0.55	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Arsenic (As)	2.7	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Beryllium (Be)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Cadmium (Cd)	0.24	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Chromium (Cr)	1.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Copper (Cu)	77	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Lead (Pb)	2.1	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Mercury (Hg)	0.089	ug/L	0.010	2	EPA 245.7	08/22/06	
Total Nickel (Ni)	3.9	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Selenium (Se)	1.1	ug/L	1.0	1	EPA 200.8	08/24/06	
Total Silver (Ag)	2.4	ug/L	0.20	1	EPA 200.8	08/24/06	
Total Thallium (Tl)	ND	ug/L	0.50	1	EPA 200.8	08/24/06	
Total Zinc (Zn)	94	ug/L	1.0	1	EPA 200.8	08/24/06	

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Blank (PH60239-BLK1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Copper (Cu)	ND		0.50	"							
Total Lead (Pb)	ND		0.20	"							
Total Nickel (Ni)	ND		0.50	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
Total Zinc (Zn)	ND		1.0	"							
Blank (PH60239-BLK2)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	ND		0.50	ug/L							
Total Arsenic (As)	ND		0.50	"							
Total Beryllium (Be)	ND		0.50	"							
Total Cadmium (Cd)	ND		0.20	"							
Total Chromium (Cr)	ND		0.50	"							
Total Lead (Pb)	0.2550		0.20	"							
Total Selenium (Se)	ND		1.0	"							
Total Silver (Ag)	ND		0.20	"							
Total Thallium (Tl)	ND		0.50	"							
LCS (PH60239-BS1)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Total Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Total Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Total Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Total Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Total Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Total Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Total Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Total Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Total Silver (Ag)	19.97		0.20	"	20.00		99.8	85-115		20	
Total Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Total Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	

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1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
LCS Dup (PH60239-BSD1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Total Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Total Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Total Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Total Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Total Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Total Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Total Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Total Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Total Silver (Ag)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Total Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Total Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	
Duplicate (PH60239-DUP1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.5970		0.50	ug/L		0.5830			2.37	20	
Total Arsenic (As)	2.777		0.50	"		2.631			5.40	20	
Total Beryllium (Be)	ND		0.50	"		ND				20	
Total Cadmium (Cd)	0.2490		0.20	"		0.2360			5.36	20	
Total Chromium (Cr)	2.734		0.50	"		2.788			1.96	20	
Total Copper (Cu)	47.95		0.50	"		48.78			1.72	20	
Total Lead (Pb)	2.936		0.20	"		2.870			2.27	20	
Total Nickel (Ni)	4.275		0.50	"		4.218			1.34	20	
Total Selenium (Se)	0.9980		1.0	"		1.414			34.5	20	QR-04
Total Silver (Ag)	2.356		0.20	"		2.345			0.468	20	
Total Thallium (Tl)	ND		0.50	"		ND				20	
Total Zinc (Zn)	95.47		1.0	"		96.86			1.45	20	
Duplicate (PH60239-DUP2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	0.7350		2.5	ug/L		0.7650			4.00	20	
Total Arsenic (As)	0.4750		2.5	"		0.4150			13.5	20	
Total Beryllium (Be)	ND		2.5	"		ND				20	
Total Cadmium (Cd)	ND		1.0	"		ND				20	
Total Chromium (Cr)	0.7750		2.5	"		0.7800			0.643	20	
Total Copper (Cu)	3.940		2.5	"		3.865			1.92	20	
Total Lead (Pb)	ND		1.0	"		0.8600				20	
Total Nickel (Ni)	21.46		2.5	"		21.68			1.02	20	
Total Selenium (Se)	19.30		5.0	"		18.52			4.12	20	
Total Silver (Ag)	ND		1.0	"		ND				20	
Total Thallium (Tl)	ND		2.5	"		ND				20	
Total Zinc (Zn)	0.7350		5.0	"		1.545			71.1	20	QR-04

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Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike (PH60239-MS1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	18.91		0.50	ug/L	20.00	0.5830	91.6	75-125		20	
Total Arsenic (As)	24.86		0.50	"	20.00	2.631	111	75-125		20	
Total Beryllium (Be)	18.50		0.50	"	20.00	ND	92.5	75-125		20	
Total Cadmium (Cd)	18.89		0.20	"	20.00	0.2360	93.3	75-125		20	
Total Chromium (Cr)	24.20		0.50	"	20.00	2.788	107	75-125		20	
Total Copper (Cu)	67.50		0.50	"	20.00	48.78	93.6	75-125		20	
Total Lead (Pb)	20.10		0.20	"	20.00	2.870	86.2	75-125		20	
Total Nickel (Ni)	24.75		0.50	"	20.00	4.218	103	75-125		20	
Total Selenium (Se)	23.15		1.0	"	20.00	1.414	109	75-125		20	
Total Silver (Ag)	19.75		0.20	"	20.00	2.345	87.0	75-125		20	
Total Thallium (Tl)	17.32		0.50	"	20.00	ND	86.6	75-125		20	
Total Zinc (Zn)	198.8		1.0	"	100.0	96.86	102	75-125		20	
Matrix Spike (PH60239-MS2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	98.15		2.5	ug/L	100.0	0.7650	97.4	75-125		20	
Total Arsenic (As)	115.1		2.5	"	100.0	0.4150	115	75-125		20	
Total Beryllium (Be)	85.95		2.5	"	100.0	ND	86.0	75-125		20	
Total Cadmium (Cd)	91.45		1.0	"	100.0	ND	91.4	75-125		20	
Total Chromium (Cr)	110.0		2.5	"	100.0	0.7800	109	75-125		20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125		20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125		20	
Total Nickel (Ni)	125.2		2.5	"	100.0	21.68	104	75-125		20	
Total Selenium (Se)	130.0		5.0	"	100.0	18.52	111	75-125		20	
Total Silver (Ag)	83.70		1.0	"	100.0	ND	83.7	75-125		20	
Total Thallium (Tl)	98.05		2.5	"	100.0	ND	98.0	75-125		20	
Total Zinc (Zn)	509.5		5.0	"	500.0	1.545	102	75-125		20	
Matrix Spike Dup (PH60239-MSD1)		**Source: 6080468-02**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	19.10		0.50	ug/L	20.00	0.5830	92.6	75-125	1.00	20	
Total Arsenic (As)	25.33		0.50	"	20.00	2.631	113	75-125	1.87	20	
Total Beryllium (Be)	18.38		0.50	"	20.00	ND	91.9	75-125	0.651	20	
Total Cadmium (Cd)	19.10		0.20	"	20.00	0.2360	94.3	75-125	1.11	20	
Total Chromium (Cr)	24.37		0.50	"	20.00	2.788	108	75-125	0.700	20	
Total Copper (Cu)	67.81		0.50	"	20.00	48.78	95.1	75-125	0.458	20	
Total Lead (Pb)	20.22		0.20	"	20.00	2.870	86.8	75-125	0.595	20	
Total Nickel (Ni)	25.07		0.50	"	20.00	4.218	104	75-125	1.28	20	
Total Selenium (Se)	23.74		1.0	"	20.00	1.414	112	75-125	2.52	20	
Total Silver (Ag)	19.95		0.20	"	20.00	2.345	88.0	75-125	1.01	20	
Total Thallium (Tl)	17.59		0.50	"	20.00	ND	88.0	75-125	1.55	20	
Total Zinc (Zn)	200.2		1.0	"	100.0	96.86	103	75-125	0.702	20	

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Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Matrix Spike Dup (PH60239-MSD2)		**Source: 6080519-18**			Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	97.50		2.5	ug/L	100.0	0.7650	96.7	75-125	0.664	20	
Total Arsenic (As)	112.6		2.5	"	100.0	0.4150	112	75-125	2.20	20	
Total Beryllium (Be)	84.55		2.5	"	100.0	ND	84.6	75-125	1.64	20	
Total Cadmium (Cd)	90.15		1.0	"	100.0	ND	90.2	75-125	1.43	20	
Total Chromium (Cr)	108.8		2.5	"	100.0	0.7800	108	75-125	1.10	20	
Total Copper (Cu)	106.4		2.5	"	100.0	3.865	103	75-125	0.00	20	
Total Lead (Pb)	99.00		1.0	"	100.0	0.8600	98.1	75-125	0.00	20	
Total Nickel (Ni)	123.7		2.5	"	100.0	21.68	102	75-125	1.21	20	
Total Selenium (Se)	128.1		5.0	"	100.0	18.52	110	75-125	1.47	20	
Total Silver (Ag)	82.60		1.0	"	100.0	ND	82.6	75-125	1.32	20	
Total Thallium (Tl)	97.50		2.5	"	100.0	ND	97.5	75-125	0.563	20	
Total Zinc (Zn)	512.0		5.0	"	500.0	1.545	102	75-125	0.489	20	
Reference (PH60239-SRM1)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	34.69		0.50	ug/L	35.60		97.4	80-120			
Total Arsenic (As)	89.49		0.50	"	90.80		98.6	80-120			
Total Beryllium (Be)	5.855		0.50	"	6.340		92.4	80-120			
Total Cadmium (Cd)	26.74		0.20	"	28.40		94.2	80-120			
Total Chromium (Cr)	145.0		0.50	"	135.0		107	80-120			
Total Copper (Cu)	1744		0.50	"	1620		108	80-120			
Total Lead (Pb)	87.93		0.20	"	86.10		102	80-120			
Total Nickel (Ni)	383.6		0.50	"	354.0		108	80-120			
Total Selenium (Se)	77.88		1.0	"	75.30		103	80-120			
Total Silver (Ag)	241.0		0.20	"	256.0		94.1	80-120			
Total Thallium (Tl)	5.169		0.50	"	5.010		103	80-120			
Total Zinc (Zn)	1770		1.0	"	1640		108	80-120			
Reference (PH60239-SRM2)					Prepared & Analyzed: 24-Aug-06						
Total Antimony (Sb)	33.73		0.50	ug/L	35.60		94.7	80-120			
Total Arsenic (As)	93.96		0.50	"	90.80		103	80-120			
Total Beryllium (Be)	5.740		0.50	"	6.340		90.5	80-120			
Total Cadmium (Cd)	26.47		0.20	"	28.40		93.2	80-120			
Total Chromium (Cr)	142.2		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1727		0.50	"	1620		107	80-120			
Total Lead (Pb)	83.70		0.20	"	86.10		97.2	80-120			
Total Nickel (Ni)	377.9		0.50	"	354.0		107	80-120			
Total Selenium (Se)	77.78		1.0	"	75.30		103	80-120			
Total Silver (Ag)	238.0		0.20	"	256.0		93.0	80-120			
Total Thallium (Tl)	4.847		0.50	"	5.010		96.7	80-120			
Total Zinc (Zn)	1743		1.0	"	1640		106	80-120			

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Work Order #: 6080559
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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60239 - EPA 3005A											
Reference (PH60239-SRM3)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Total Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Total Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Total Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Total Copper (Cu)	1681		0.50	"	1620		104	80-120			
Total Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Total Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Total Silver (Ag)	259.6		0.20	"	256.0		101	80-120			
Total Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Total Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60239-SRM4)				Prepared & Analyzed: 24-Aug-06							
Total Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Total Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Total Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Total Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Total Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Total Copper (Cu)	1753		0.50	"	1620		108	80-120			
Total Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Total Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Total Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Total Silver (Ag)	257.2		0.20	"	256.0		100	80-120			
Total Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Total Zinc (Zn)	1742		1.0	"	1640		106	80-120			

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Blank (PH60240-BLK1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	ND		0.50	ug/L							
Dissolved Arsenic (As)	ND		0.50	"							
Dissolved Beryllium (Be)	ND		0.50	"							
Dissolved Cadmium (Cd)	ND		0.20	"							
Dissolved Chromium (Cr)	ND		0.50	"							
Dissolved Copper (Cu)	ND		0.50	"							
Dissolved Lead (Pb)	ND		0.20	"							
Dissolved Nickel (Ni)	ND		0.50	"							
Dissolved Selenium (Se)	ND		1.0	"							
Dissolved Silver (Se)	ND		0.20	"							
Dissolved Thallium (Tl)	ND		0.50	"							
Dissolved Zinc (Zn)	ND		1.0	"							
LCS (PH60240-BS1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	19.03		0.50	ug/L	20.00		95.2	85-115		20	
Dissolved Arsenic (As)	20.18		0.50	"	20.00		101	85-115		20	
Dissolved Beryllium (Be)	20.11		0.50	"	20.00		101	85-115		20	
Dissolved Cadmium (Cd)	19.21		0.20	"	20.00		96.0	85-115		20	
Dissolved Chromium (Cr)	19.65		0.50	"	20.00		98.2	85-115		20	
Dissolved Copper (Cu)	19.82		0.50	"	20.00		99.1	85-115		20	
Dissolved Lead (Pb)	18.79		0.20	"	20.00		94.0	85-115		20	
Dissolved Nickel (Ni)	19.74		0.50	"	20.00		98.7	85-115		20	
Dissolved Selenium (Se)	19.90		1.0	"	20.00		99.5	85-115		20	
Dissolved Silver (Se)	19.97		0.20	"	20.00		99.8	85-115		20	
Dissolved Thallium (Tl)	18.62		0.50	"	20.00		93.1	85-115		20	
Dissolved Zinc (Zn)	98.59		1.0	"	100.0		98.6	85-115		20	
LCS Dup (PH60240-BSD1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	18.98		0.50	ug/L	20.00		94.9	85-115	0.263	20	
Dissolved Arsenic (As)	20.09		0.50	"	20.00		100	85-115	0.447	20	
Dissolved Beryllium (Be)	20.20		0.50	"	20.00		101	85-115	0.447	20	
Dissolved Cadmium (Cd)	19.07		0.20	"	20.00		95.4	85-115	0.731	20	
Dissolved Chromium (Cr)	19.79		0.50	"	20.00		99.0	85-115	0.710	20	
Dissolved Copper (Cu)	19.73		0.50	"	20.00		98.6	85-115	0.455	20	
Dissolved Lead (Pb)	18.66		0.20	"	20.00		93.3	85-115	0.694	20	
Dissolved Nickel (Ni)	19.80		0.50	"	20.00		99.0	85-115	0.303	20	
Dissolved Selenium (Se)	20.92		1.0	"	20.00		105	85-115	5.00	20	
Dissolved Silver (Se)	19.79		0.20	"	20.00		99.0	85-115	0.905	20	
Dissolved Thallium (Tl)	18.54		0.50	"	20.00		92.7	85-115	0.431	20	
Dissolved Zinc (Zn)	98.40		1.0	"	100.0		98.4	85-115	0.193	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Duplicate (PH60240-DUP1)		**Source: 6080468-01**		Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	0.3870		0.50	ug/L		0.4300			10.5	20	
Dissolved Arsenic (As)	1.334		0.50	"		1.285			3.74	20	
Dissolved Beryllium (Be)	ND		0.50	"		ND				20	
Dissolved Cadmium (Cd)	ND		0.20	"		ND				20	
Dissolved Chromium (Cr)	0.6200		0.50	"		0.6560			5.64	20	
Dissolved Copper (Cu)	4.716		0.50	"		4.771			1.16	20	
Dissolved Lead (Pb)	0.5040		0.20	"		0.5470			8.18	20	
Dissolved Nickel (Ni)	2.997		0.50	"		3.027			0.996	20	
Dissolved Selenium (Se)	0.5770		1.0	"		0.6040			4.57	20	
Dissolved Silver (Se)	0.2400		0.20	"		0.2490			3.68	20	
Dissolved Thallium (Tl)	ND		0.50	"		ND				20	
Dissolved Zinc (Zn)	11.55		1.0	"		12.30			6.29	20	
Matrix Spike (PH60240-MS1)		**Source: 6080468-01**		Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	18.69		0.50	ug/L	20.00	0.4300	91.3	75-125		20	
Dissolved Arsenic (As)	23.06		0.50	"	20.00	1.285	109	75-125		20	
Dissolved Beryllium (Be)	20.15		0.50	"	20.00	ND	101	75-125		20	
Dissolved Cadmium (Cd)	19.24		0.20	"	20.00	ND	96.2	75-125		20	
Dissolved Chromium (Cr)	21.03		0.50	"	20.00	0.6560	102	75-125		20	
Dissolved Copper (Cu)	24.55		0.50	"	20.00	4.771	98.9	75-125		20	
Dissolved Lead (Pb)	19.31		0.20	"	20.00	0.5470	93.8	75-125		20	
Dissolved Nickel (Ni)	22.75		0.50	"	20.00	3.027	98.6	75-125		20	
Dissolved Selenium (Se)	23.12		1.0	"	20.00	0.6040	113	75-125		20	
Dissolved Silver (Se)	11.76		0.20	"	20.00	0.2490	57.6	75-125		20	QM-01
Dissolved Thallium (Tl)	18.80		0.50	"	20.00	ND	94.0	75-125		20	
Dissolved Zinc (Zn)	116.4		1.0	"	100.0	12.30	104	75-125		20	
Matrix Spike Dup (PH60240-MSD1)		**Source: 6080468-01**		Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	18.48		0.50	ug/L	20.00	0.4300	90.2	75-125	1.13	20	
Dissolved Arsenic (As)	22.83		0.50	"	20.00	1.285	108	75-125	1.00	20	
Dissolved Beryllium (Be)	19.74		0.50	"	20.00	ND	98.7	75-125	2.06	20	
Dissolved Cadmium (Cd)	18.81		0.20	"	20.00	ND	94.0	75-125	2.26	20	
Dissolved Chromium (Cr)	20.71		0.50	"	20.00	0.6560	100	75-125	1.53	20	
Dissolved Copper (Cu)	24.50		0.50	"	20.00	4.771	98.6	75-125	0.204	20	
Dissolved Lead (Pb)	19.23		0.20	"	20.00	0.5470	93.4	75-125	0.415	20	
Dissolved Nickel (Ni)	22.72		0.50	"	20.00	3.027	98.5	75-125	0.132	20	
Dissolved Selenium (Se)	23.88		1.0	"	20.00	0.6040	116	75-125	3.23	20	
Dissolved Silver (Se)	14.35		0.20	"	20.00	0.2490	70.5	75-125	19.8	20	QM-01
Dissolved Thallium (Tl)	18.58		0.50	"	20.00	ND	92.9	75-125	1.18	20	
Dissolved Zinc (Zn)	114.2		1.0	"	100.0	12.30	102	75-125	1.91	20	

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Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60240 - Diss Metals											
Reference (PH60240-SRM1)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	35.00		0.50	ug/L	35.60		98.3	80-120			
Dissolved Arsenic (As)	92.57		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	7.217		0.50	"	6.340		114	80-120			
Dissolved Cadmium (Cd)	27.57		0.20	"	28.40		97.1	80-120			
Dissolved Chromium (Cr)	141.8		0.50	"	135.0		105	80-120			
Dissolved Copper (Cu)	1681		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	89.07		0.20	"	86.10		103	80-120			
Dissolved Nickel (Ni)	370.5		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.63		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	259.6		0.20	"	256.0		101	80-120			
Dissolved Thallium (Tl)	5.080		0.50	"	5.010		101	80-120			
Dissolved Zinc (Zn)	1734		1.0	"	1640		106	80-120			
Reference (PH60240-SRM2)				Prepared & Analyzed: 24-Aug-06							
Dissolved Antimony (Sb)	34.16		0.50	ug/L	35.60		96.0	80-120			
Dissolved Arsenic (As)	92.17		0.50	"	90.80		102	80-120			
Dissolved Beryllium (Be)	6.687		0.50	"	6.340		105	80-120			
Dissolved Cadmium (Cd)	27.12		0.20	"	28.40		95.5	80-120			
Dissolved Chromium (Cr)	142.7		0.50	"	135.0		106	80-120			
Dissolved Copper (Cu)	1690		0.50	"	1620		104	80-120			
Dissolved Lead (Pb)	84.48		0.20	"	86.10		98.1	80-120			
Dissolved Nickel (Ni)	370.3		0.50	"	354.0		105	80-120			
Dissolved Selenium (Se)	85.64		1.0	"	75.30		114	80-120			
Dissolved Silver (Se)	257.2		0.20	"	256.0		100	80-120			
Dissolved Thallium (Tl)	4.913		0.50	"	5.010		98.1	80-120			
Dissolved Zinc (Zn)	1742		1.0	"	1640		106	80-120			

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60299 - EPA 245.7											
Blank (PH60299-BLK1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60299-DUP1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.0370		0.010	ug/L		0.0328			12.0	25	
Matrix Spike (PH60299-MS1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.112		0.010	ug/L	0.100	0.0328	79.2	75-125		20	
Matrix Spike Dup (PH60299-MSD1)		**Source: 6080559-02**			Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	0.114		0.010	ug/L	0.100	0.0328	81.2	75-125	1.77	20	
Reference (PH60299-SRM1)					Prepared & Analyzed: 22-Aug-06						
Dissolved Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			
Batch PH60300 - EPA 245.7											
Blank (PH60300-BLK1)					Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	ND		0.0050	ug/L							
Duplicate (PH60300-DUP1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.0816		0.050	ug/L		0.0986			18.9	25	
Matrix Spike (PH60300-MS1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.584		0.050	ug/L	0.500	0.0986	97.1	75-125		20	
Matrix Spike Dup (PH60300-MSD1)		**Source: 6080528-01**			Prepared & Analyzed: 22-Aug-06						
Total Mercury (Hg)	0.583		0.050	ug/L	0.500	0.0986	96.9	75-125	0.171	20	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

Metals - Quality Control

Soil Control Lab

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PH60300 - EPA 245.7											
Reference (PH60300-SRM1)				Prepared & Analyzed: 22-Aug-06							
Total Mercury (Hg)	12.9		1.0	ug/L	11.5		112	80-120			

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6080559
Reporting Date: October 19, 2006

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.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

6080559

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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1015	**KLI Proj. #:** 516.01

ANALYSIS TYPE: **Total and Dissolved Metals**: Antimony and thallium (EPA 200.8) and selenium (EPA 270.3), arsenic (EPA 206.2), beryllium (EPA 210.2), cadmium (EPA 213.2), chromium (EPA 218.2), copper (SM18 3111B), lead (EPA 239.2), mercury (EPA 245.1), nickel (EPA 249.2), silver (EPA 272.2), and zinc (SM18 3111B). Detection limit 10 µg/L.

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
MOA06MET013	Influent	1	8/17/18-06	1300 - 1245	Intact	6080559-01
MOA06MET014	Effluent	1	↓	↓	↓	" -02

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
Susan Lang	8/18/06 1300	[illegible]	[illegible]	8/18/06 [illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/18/06 1315	FEDEX	[illegible]	8-19-061115
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B3 Priority Pollutants, Dioxin, Pesticides, and Hydrocarbons

Severn Trent Laboratories, Inc.

AUGUST SAMPLING, PRIORITY POLLUTANTS, DIOXIN, PESTICIDES, AND HYDROCARBONS, STL SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06VOP020 - 027	INFLUENT	SAMPLE (COMPOSITE)
MOA06VOP028 - 035 *	EFFLUENT	SAMPLE (COMPOSITE)
MOA06VOP036	C-STATION	FIELD BLANK
MOA06VOP037	TRIP BLANK	TRIP BLANK
MOA06VOP038	SLUDGE	SAMPLE
MOA06DXN004	INFLUENT	SAMPLE
MOA06DXN005	EFFLUENT	SAMPLE
MOA06DXN006	SLUDGE	SAMPLE
MOA06SVL004	INFLUENT	SAMPLE
MOA06SVL005	EFFLUENT	SAMPLE
MOA06SVL006	SLUDGE	SAMPLE
MOA06PES005	INFLUENT	SAMPLE
MOA06PES006	EFFLUENT	SAMPLE
MOA06PES007	SLUDGE	SAMPLE
MOA06PST004	INFLUENT	SAMPLE
MOA06PST005	EFFLUENT	SAMPLE

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

KLI Project # 516.01

Lot D6H170353

Tim Mayers

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

SEVERN TRENT LABORATORIES, INC. / STL DENVER

Michael P. Phillips
Project Manager

September 20, 2006

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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.*

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- 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
D6H170353

The following report contains the analytical results for sixteen samples submitted to STL Denver by Kinnetic Laboratories. The samples were received August 17, 2006, according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each data sheet to assist in the interpretation of the results. In some cases, due to interferences or analytes present above the linear calibration curve, samples must be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits are adjusted relative to the dilution required. Dilutions made for reasons other than the presence of target compound(s) are addressed in the Supplemental Information Section.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the methods summary page in accordance with the method indicated. A summary of QC data for this analysis is included near the end of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory in good condition at cooler temperatures of 0.8°C, 4.6°C, and 0.7°C. There were no custody seals on the coolers. Sample times were not shown on the chain-of-custody forms for the composite sludge samples. The client was informed on August 18, 2006 and it was decided that the composite sludge samples should be logged in with sampling dates of August 15, 2006 and sampling times of 09:00.

No other anomalies were observed.

Volatile Organic Compounds, EPA Method 624

Methylene Chloride was present in the Method Blank associated with water QC batch 6235293. Corrective action is deemed unnecessary, as the concentration in the Method Blank was not present at a level greater than the reporting limit. Methylene Chloride was also detected in the Trip Blank at a concentration below the reporting limit. Methylene Chloride was detected in the associated water samples, indicating that some low level field and/or lab contamination of the samples by Methylene Chloride may have occurred.

No other anomalies were observed.

Volatile Organic Compounds, EPA Method 8260B

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to the presence of both target and non-target analytes, sample MOA06VOP038 SLUDGE required dilution prior to analysis by Method 8260B. The reporting limits have been adjusted relative to the dilution required.

No other anomalies were observed.

Semivolatile Organic Compounds, EPA Method 625

The method required MS/MSD could not be performed for Method 625 due to insufficient sample volume submitted.

The surrogate recovery for Terphenyl-d14 in sample MOA06SVL004 INFLUENT was below the lower control limit. There was obvious matrix interference visible in the sample chromatograms.

No other anomalies were observed.

Semivolatile Organic Compounds, EPA Method 8270C

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to sample matrix, the extract for sample MOA06SVL006 SLUDGE could not be concentrated below 10 mL and the sample required further dilution prior to analysis. The reporting limits have been adjusted relative to the dilution required. This anomaly also affected the MS/MSD that was performed using sample MOA06SVL006 SLUDGE. All surrogate and spike compound recoveries in these samples could not be quantitated due to the required dilutions.

No other anomalies were observed.

Organochlorine Pesticides/PCBs, EPA Method 608

The method required MS/MSD could not be performed for Method 608 due to insufficient sample volume submitted.

The surrogate recoveries for Decachlorobiphenyl in the Pesticide analyses for samples MOA06PES005 INFLUENT and MOA06PES006 EFFLUENT were below the lower control limit. The surrogate recoveries for Decachlorobiphenyl in the PCB analyses for samples MOA06PES005 INFLUENT and MOA06PES006 EFFLUENT and the surrogate recovery for Tetrachloro-m-xylene in the PCB analysis for sample MOA06PES005 INFLUENT were outside the control limits. There was obvious matrix interference visible in the sample chromatograms.

No other anomalies were observed.

Organochlorine Pesticides/PCBs, EPA Method 8081A/8082

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to matrix interferences, sample MOA06PES007 SLUDGE required dilution prior to analysis by Method 8081A. The reporting limits have been adjusted relative to the dilution required. The surrogate recoveries also could not be determined due to the required dilution.

MS/MSD analyses for Method 8081A were performed using sample MOA06PES007 SLUDGE. The recoveries for the spiked compounds and the surrogates in the MS/MSD could not be determined because of the dilution required due to matrix interferences.

For Method 8081A, the RPD between the primary and confirmation columns exceeded 40% for beta-BHC and Methoxychlor in sample MOA06PES007 SLUDGE. The lower of the two values has been reported in each case, as matrix interference is evident. The results in the analytical report have been flagged with "COL".

The Continuing Calibration Verification (CCV) standards associated with QC batch 6235437 for Method 8081A exhibited %Difference (%D) values out of range for 4,4'-DDT and Methoxychlor.

The overall mean %D was within control limits; therefore, method criteria were met and corrective action was deemed unnecessary.

MS/MSD analyses for Method 8082 were performed using a sample from another client and/or lot. All of the surrogate and spiked compound recoveries were above the upper control limits due to severe matrix interferences in the parent sample.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6235438 exhibited %Difference (%D) values out of range for the surrogate Decachlorobiphenyl. The overall mean %D was within control limits; therefore, method criteria were and corrective action was deemed unnecessary.

No other anomalies were observed.

Organophosphorus Pesticides, EPA Method 614

The method required MS/MSD could not be performed for Method 614 due to insufficient sample volume submitted.

The LCSD recovery for Phorate and the relative percent difference for Diazinon in the LCS/LCSD for QC batch 6230152 were above the upper control limits. However, because all of the other QC results were in control and Phorate and Diazinon are not target analytes for this project, no corrective action was necessary.

No other anomalies were observed.

Organophosphorus Pesticides, EPA Method 8141A

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. Due to matrix interferences, sample MOA06PES007 SLUDGE required dilution prior to analysis by Method 8141A. The reporting limits have been adjusted relative to the dilution required. The surrogate recoveries also could not be determined due to the required dilution.

The method required MS/MSD could not be performed for Method 8141A due to insufficient sample volume submitted.

The Continuing Calibration Verification (CCV) standards associated with QC batch 6230118 exhibited %Difference (%D) values out of range for Demeton-S, Methyl Parathion, Malathion, Ethyl Parathion, and Azinphos-methyl. The overall mean %D was within control limits; therefore, method criteria were met and corrective action was deemed unnecessary.

No other anomalies were observed.

2,3,7,8-TCDD, EPA Method 8280A

The analyses for 2,3,7,8-TCDD by Method 8280A were performed at STL's Sacramento Laboratory.

The method required MS/MSD could not be performed for Method 8280A due to insufficient sample volume submitted.

No other anomalies were observed.

Percent Moisture, ASTM D2216-90 and MCAWW 160.3 MOD

The relative percent difference for one of the sample duplicates performed using a sample from another client and/or lot was above the control limit, while a second sample duplicate using a different sample from another client and/or lot was in control.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D6H170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06VOP020-27 INF CMP#1-8 08/15/06 09:10 001				
Xylenes (total)	2.8 J	10	ug/L	CFR136A 624
Benzene	0.40 J	5.0	ug/L	CFR136A 624
Chloroform	2.5 J	5.0	ug/L	CFR136A 624
1,4-Dichlorobenzene	1.5 J	5.0	ug/L	CFR136A 624
Ethylbenzene	0.66 J	5.0	ug/L	CFR136A 624
Methylene chloride	3.8 J,B	5.0	ug/L	CFR136A 624
Tetrachloroethene	2.1 J	5.0	ug/L	CFR136A 624
Toluene	7.8	5.0	ug/L	CFR136A 624
MOA06VOP028-35 EFF CMP#1-8 08/15/06 09:06 002				
Xylenes (total)	3.1 J	10	ug/L	CFR136A 624
Benzene	0.59 J	5.0	ug/L	CFR136A 624
Bromodichloromethane	0.34 J	5.0	ug/L	CFR136A 624
Chloroform	3.8 J	5.0	ug/L	CFR136A 624
Chloromethane	1.1 J	10	ug/L	CFR136A 624
1,4-Dichlorobenzene	1.1 J	5.0	ug/L	CFR136A 624
Ethylbenzene	0.62 J	5.0	ug/L	CFR136A 624
Methylene chloride	3.3 J,B	5.0	ug/L	CFR136A 624
Tetrachloroethene	1.4 J	5.0	ug/L	CFR136A 624
Toluene	8.7	5.0	ug/L	CFR136A 624
MOA06VOP036 C-STATION 08/15/06 07:15 003				
Methylene chloride	9.8 B	5.0	ug/L	CFR136A 624
MOA06VOP037 TRIP BLANK 08/15/06 004				
Methylene chloride	1.2 J,B	5.0	ug/L	CFR136A 624
MOA06DXN006 SLUDGE 08/15/06 09:00 007				
Percent Moisture	67	0.10	%	ASTM D 2216-90
MOA06PES007 SLUDGE 08/15/06 09:00 008				
beta-BHC	39 J,COL	54	ug/kg	SW846 8081A
Heptachlor	640	54	ug/kg	SW846 8081A
Methoxychlor	18 J,COL	110	ug/kg	SW846 8081A
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D6H170353

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06SVL006 SLUDGE 08/15/06 09:00 009				
bis(2-Ethylhexyl) phthalate	92000 J	210000	ug/kg	SW846 8270C
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD
MOA06VOP038 SLUDGE 08/15/06 09:00 010				
Benzene	20 J	79	ug/kg	SW846 8260B
Chloroform	12 J	160	ug/kg	SW846 8260B
1,2-Dichlorobenzene	94	79	ug/kg	SW846 8260B
1,4-Dichlorobenzene	280	79	ug/kg	SW846 8260B
Ethylbenzene	77 J	79	ug/kg	SW846 8260B
Tetrachloroethene	430	79	ug/kg	SW846 8260B
Toluene	1600	79	ug/kg	SW846 8260B
Trichloroethene	16 J	79	ug/kg	SW846 8260B
Xylenes (total)	480	79	ug/kg	SW846 8260B
Percent Moisture	68	0.10	%	MCAWW 160.3 MOD
MOA06SVL004 INFLUENT 08/15/06 08:00 011				
Butyl benzyl phthalate	5.7 J	20	ug/L	CFR136A 625
Diethyl phthalate	9.0 J	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	14	10	ug/L	CFR136A 625
MOA06SVL005 EFFLUENT 08/15/06 08:00 012				
Diethyl phthalate	7.9 J	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	10	10	ug/L	CFR136A 625
Phenol	13	10	ug/L	CFR136A 625
MOA06PES005 INFLUENT 08/15/06 08:00 015				
delta-BHC	0.0084 J	0.050	ug/L	CFR136A 608
Heptachlor	0.47	0.050	ug/L	CFR136A 608
MOA06PES006 EFFLUENT 08/15/06 08:00 016				
Dieldrin	0.021 J	0.10	ug/L	CFR136A 608
Endosulfan II	0.042 J	0.10	ug/L	CFR136A 608
Heptachlor	0.54	0.050	ug/L	CFR136A 608
alpha-BHC	0.023 J	0.050	ug/L	CFR136A 608

METHODS SUMMARY

D6H170353

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Base/Neutrals and Acids	CFR136A 625	CFR136A 625
Dioxins/Furans, HRGC/LRMS (8280A)	SW846 8280A	SW846 8280A
Method for Determination of Water Content of Soil	ASTM D 2216-90	ASTM D2216-90
Organochlorine Pesticides	SW846 8081A	SW846 3550
Organochlorine Pesticides and PCBs	CFR136A 608	CFR136A 608
Organophosphorous Compounds by GC	SW846 8141A	
Organophosphorus Pests. by GC	MCAWW 614	MCAWW 614
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Purgeables	CFR136A 624	CFR136A 624
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

ASTM — Annual Book Of ASTM Standards.

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

MCAWW — "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 — "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D6H170353

ANALYTICAL METHOD	ANALYST	ANALYST ID
ASTM D 2216-90	David Romero	9893
CFR136A 608	Mike Kellison	003852
CFR136A 608	Teresa L. Williams	002510
CFR136A 624	Daniel Kiekel	011370
CFR136A 625	Joann Peterson	011674
MCAWW 160.3 MOD	Tamera J. Overton	1229
MCAWW 614	Teresa L. Williams	002510
SW846 8081A	Carrie Lahr	008835
SW846 8082	Mike Dobransky	008777
SW846 8141A	Teresa L. Williams	002510
SW846 8260B	Dan Appelhans	001008
SW846 8270C	Mike G. Hoffman	001880
SW846 8280A	Wayne Halozan	002457

References:

ASTM — Annual Book Of ASTM Standards.

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

MCAWW — "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 — "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D6H170353

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JCLKA	001	MOA06VOP020-27 INF CMP#1-8	08/15/06	09:10
JCLK3	002	MOA06VOP028-35 EFF CMP#1-8	08/15/06	09:06
JCLK5	003	MOA06VOP036 C-STATION	08/15/06	07:15
JCLK6	004	MOA06VOP037 TRIP BLANK	08/15/06	
JCLLC	005	MOA06DXN004 INFLUENT	08/15/06	08:00
JCLLJ	006	MOA06DXN005 EFFLUENT	08/15/06	08:00
JCLLN	007	MOA06DXN006 SLUDGE	08/15/06	09:00
JCLL2	008	MOA06PES007 SLUDGE	08/15/06	09:00
JCLL7	009	MOA06SVL006 SLUDGE	08/15/06	09:00
JCLMC	010	MOA06VOP038 SLUDGE	08/15/06	09:00
JCLMF	011	MOA06SVL004 INFLUENT	08/15/06	08:00
JCLMJ	012	MOA06SVL005 EFFLUENT	08/15/06	08:00
JCLML	013	MOA06PST004 INFLUENT	08/15/06	08:00
JCLMP	014	MOA06PST005 EFFLUENT	08/15/06	08:00
JCLMR	015	MOA06PES005 INFLUENT	08/15/06	08:00
JCLM5	016	MOA06PES006 EFFLUENT	08/15/06	08:00

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.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP020-27 INF CMP#1-8

GC/MS Volatiles

Lot-Sample #...: D6H170353-001 **Work Order #...:** JCLKA1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 09:10 **Date Received..:** 08/17/06
Prep Date.....: 08/22/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6235293 **Analysis Time..:** 10:39
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**2.8 J**	**10**	**ug/L**	**0.20**
Benzene	**0.40 J**	**5.0**	**ug/L**	**0.22**
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	**2.5 J**	**5.0**	**ug/L**	**0.40**
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	**1.5 J**	**5.0**	**ug/L**	**0.56**
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	**0.66 J**	**5.0**	**ug/L**	**0.20**
Methylene chloride	**3.8 J,B**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	**2.1 J**	**5.0**	**ug/L**	**0.30**
Toluene	**7.8**	**5.0**	**ug/L**	**0.27**
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(73 - 122)
4-Bromofluorobenzene	87	(79 - 119)
Toluene-d8	99	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP028-35 EFF CMP#1-8

GC/MS Volatiles

Lot-Sample #...: D6H170353-002 **Work Order #...:** JCLK31AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 09:06 **Date Received..:** 08/17/06
Prep Date.....: 08/22/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6235293 **Analysis Time..:** 11:00
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	**3.1 J**	**10**	**ug/L**	**0.20**
Benzene	**0.59 J**	**5.0**	**ug/L**	**0.22**
Bromodichloromethane	**0.34 J**	**5.0**	**ug/L**	**0.26**
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	**3.8 J**	**5.0**	**ug/L**	**0.40**
Chloromethane	**1.1 J**	**10**	**ug/L**	**0.89**
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	**1.1 J**	**5.0**	**ug/L**	**0.56**
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	**0.62 J**	**5.0**	**ug/L**	**0.20**
Methylene chloride	**3.3 J,B**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	**1.4 J**	**5.0**	**ug/L**	**0.30**
Toluene	**8.7**	**5.0**	**ug/L**	**0.27**
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	90	(73 - 122)
4-Bromofluorobenzene	84	(79 - 119)
Toluene-d8	100	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP036 C-STATION

GC/MS Volatiles

Lot-Sample #...: D6H170353-003 **Work Order #...:** JCLK51AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 07:15 **Date Received..:** 08/17/06
Prep Date.....: 08/22/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6235293 **Analysis Time..:** 11:21
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	0.20
Benzene	ND	5.0	ug/L	0.22
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	ND	5.0	ug/L	0.40
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	ND	5.0	ug/L	0.20
Methylene chloride	**9.8 B**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	ND	5.0	ug/L	0.30
Toluene	ND	5.0	ug/L	0.27
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(73 - 122)
4-Bromofluorobenzene	92	(79 - 119)
Toluene-d8	96	(80 - 120)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP037 TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D6H170353-004 **Work Order #...:** JCLK61AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 **Date Received..:** 08/17/06
Prep Date.....: 08/22/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6235293 **Analysis Time..:** 11:42
Dilution Factor: 1

Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Xylenes (total)	ND	10	ug/L	0.20
Benzene	ND	5.0	ug/L	0.22
Bromodichloromethane	ND	5.0	ug/L	0.26
Bromoform	ND	5.0	ug/L	0.48
Bromomethane	ND	10	ug/L	0.47
Carbon tetrachloride	ND	5.0	ug/L	0.24
Chlorobenzene	ND	5.0	ug/L	0.24
Chloroethane	ND	10	ug/L	0.84
Chloroform	ND	5.0	ug/L	0.40
Chloromethane	ND	10	ug/L	0.89
Dibromochloromethane	ND	5.0	ug/L	0.71
1,2-Dichlorobenzene	ND	5.0	ug/L	0.50
1,3-Dichlorobenzene	ND	5.0	ug/L	0.55
1,4-Dichlorobenzene	ND	5.0	ug/L	0.56
1,1-Dichloroethane	ND	5.0	ug/L	0.32
1,2-Dichloroethane	ND	5.0	ug/L	0.19
1,1-Dichloroethene	ND	5.0	ug/L	0.44
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.71
1,2-Dichloropropane	ND	5.0	ug/L	0.36
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.66
Ethylbenzene	ND	5.0	ug/L	0.20
Methylene chloride	**1.2 J,B**	**5.0**	**ug/L**	**0.97**
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.26
Tetrachloroethene	ND	5.0	ug/L	0.30
Toluene	ND	5.0	ug/L	0.27
1,1,1-Trichloroethane	ND	5.0	ug/L	0.35
1,1,2-Trichloroethane	ND	5.0	ug/L	0.62
Trichloroethene	ND	5.0	ug/L	0.30
Trichlorofluoromethane	ND	10	ug/L	0.26
Vinyl chloride	ND	10	ug/L	0.49
2-Chloroethyl vinyl ether	ND	5.0	ug/L	1.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(73 - 122)
4-Bromofluorobenzene	93	(79 - 119)
Toluene-d8	100	(80 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP038 SLUDGE

GC/MS Volatiles

Lot-Sample #...: D6H170353-010 **Work Order #...:** JCLMC1AC **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/19/06 **Analysis Date..:** 08/19/06
Prep Batch #...: 6234254 **Analysis Time..:** 20:35
Dilution Factor: 5

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chloroethyl vinyl ether	ND	790	ug/kg	12
Benzene	**20 J**	**79**	**ug/kg**	**7.4**
Bromodichloromethane	ND	79	ug/kg	8.1
Bromoform	ND	79	ug/kg	7.6
Bromomethane	ND	160	ug/kg	7.9
Carbon tetrachloride	ND	79	ug/kg	10
Chlorobenzene	ND	79	ug/kg	8.5
Chloroethane	ND	160	ug/kg	14
Chloroform	**12 J**	**160**	**ug/kg**	**9.2**
Chloromethane	ND	160	ug/kg	12
1,2-Dichlorobenzene	**94**	**79**	**ug/kg**	**7.1**
1,3-Dichlorobenzene	ND	79	ug/kg	7.6
1,4-Dichlorobenzene	**280**	**79**	**ug/kg**	**12**
1,1-Dichloroethane	ND	79	ug/kg	8.5
1,2-Dichloroethane	ND	79	ug/kg	11
1,1-Dichloroethene	ND	79	ug/kg	9.3
trans-1,2-Dichloroethene	ND	40	ug/kg	6.2
1,2-Dichloropropane	ND	79	ug/kg	8.7
cis-1,3-Dichloropropene	ND	79	ug/kg	20
trans-1,3-Dichloropropene	ND	79	ug/kg	11
Ethylbenzene	**77 J**	**79**	**ug/kg**	**11**
Methylene chloride	ND	79	ug/kg	12
1,1,2,2-Tetrachloroethane	ND	79	ug/kg	9.7
Tetrachloroethene	**430**	**79**	**ug/kg**	**9.3**
Toluene	**1600**	**79**	**ug/kg**	**11**
1,1,1-Trichloroethane	ND	79	ug/kg	8.2
1,1,2-Trichloroethane	ND	79	ug/kg	14
Trichloroethene	**16 J**	**79**	**ug/kg**	**7.8**
Trichlorofluoromethane	ND	160	ug/kg	16
Vinyl chloride	ND	79	ug/kg	9.2
Xylenes (total)	**480**	**79**	**ug/kg**	**9.7**
Dibromochloromethane	ND	79	ug/kg	9.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(10 - 179)
1,2-Dichloroethane-d4	73	(60 - 143)
4-Bromofluorobenzene	69	(59 - 129)
Toluene-d8	99	(68 - 134)

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP038 SLUDGE

GC/MS Volatiles

Lot-Sample #...: D6H170353-010 Work Order #...: JCLMC1AC Matrix.....: SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL004 INFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-011 **Work Order #...:** JCLMF1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/18/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6230120 **Analysis Time..:** 12:28
Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	1.7
Acenaphthylene	ND	10	ug/L	1.8
Anthracene	ND	10	ug/L	1.9
Benzo(a)anthracene	ND	10	ug/L	1.7
Benzo(a)pyrene	ND	10	ug/L	1.3
Benzo(b)fluoranthene	ND	10	ug/L	0.39
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	0.46
4-Bromophenyl phenyl ether	ND	10	ug/L	2.1
Butyl benzyl phthalate	**5.7 J**	**20**	**ug/L**	**5.0**
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.4
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.9
bis(2-Chloroisopropyl) ether	ND	10	ug/L	0.43
4-Chloro-3-methylphenol	ND	20	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	1.7
2-Chlorophenol	ND	10	ug/L	0.38
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.4
Di-n-butyl phthalate	ND	20	ug/L	5.0
1,2-Dichlorobenzene	ND	10	ug/L	1.4
1,3-Dichlorobenzene	ND	10	ug/L	1.5
1,4-Dichlorobenzene	ND	10	ug/L	1.4
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	1.3
Diethyl phthalate	**9.0 J**	**20**	**ug/L**	**5.0**
2,4-Dimethylphenol	ND	10	ug/L	0.57
Dimethyl phthalate	ND	20	ug/L	5.0
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	20
2,4-Dinitrophenol	ND	60	ug/L	20
2,4-Dinitrotoluene	ND	20	ug/L	5.0
2,6-Dinitrotoluene	ND	20	ug/L	5.0

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL004 INFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-011 **Work Order #...:** JCLMF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Di-n-octyl phthalate	ND	20	ug/L	5.0
bis(2-Ethylhexyl) phthalate	**14**	**10**	**ug/L**	**1.4**
Fluoranthene	ND	20	ug/L	5.0
Fluorene	ND	10	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	2.1
Hexachlorobutadiene	ND	10	ug/L	1.3
Hexachloroethane	ND	10	ug/L	0.46
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5
Isophorone	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.5
Nitrobenzene	ND	20	ug/L	5.0
2-Nitrophenol	ND	20	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	1.7
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	5.0
Pentachlorophenol	ND	60	ug/L	20
Phenanthrene	ND	10	ug/L	1.0
Phenol	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	0.37
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
2,4,6-Trichloro-phenol	ND	20	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(53 - 120)
Phenol-d5	80	(57 - 120)
Nitrobenzene-d5	83	(59 - 120)
2-Fluorobiphenyl	71	(49 - 120)
2,4,6-Tribromophenol	92	(50 - 120)
Terphenyl-d14	57 *	(63 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL005 EFFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-012 **Work Order #...:** JCLMJ1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/18/06 **Analysis Date..:** 08/22/06
Prep Batch #...: 6230120 **Analysis Time..:** 12:51
Dilution Factor: 1

Method.....: CFR136A 625

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	1.7
Acenaphthylene	ND	10	ug/L	1.8
Anthracene	ND	10	ug/L	1.9
Benzo(a)anthracene	ND	10	ug/L	1.7
Benzo(a)pyrene	ND	10	ug/L	1.3
Benzo(b)fluoranthene	ND	10	ug/L	0.39
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	0.46
4-Bromophenyl phenyl ether	ND	10	ug/L	2.1
Butyl benzyl phthalate	ND	20	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.4
bis(2-Chloroethyl)-ether	ND	10	ug/L	3.9
bis(2-Chloroisopropyl) ether	ND	10	ug/L	0.43
4-Chloro-3-methylphenol	ND	20	ug/L	5.0
2-Chloronaphthalene	ND	10	ug/L	1.7
2-Chlorophenol	ND	10	ug/L	0.38
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.4
Di-n-butyl phthalate	ND	20	ug/L	5.0
1,2-Dichlorobenzene	ND	10	ug/L	1.4
1,3-Dichlorobenzene	ND	10	ug/L	1.5
1,4-Dichlorobenzene	ND	10	ug/L	1.4
3,3'-Dichlorobenzidine	ND	50	ug/L	2.0
2,4-Dichlorophenol	ND	10	ug/L	1.3
Diethyl phthalate	**7.9 J**	**20**	**ug/L**	**5.0**
2,4-Dimethylphenol	ND	10	ug/L	0.57
Dimethyl phthalate	ND	20	ug/L	5.0
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	20
2,4-Dinitrophenol	ND	60	ug/L	20
2,4-Dinitrotoluene	ND	20	ug/L	5.0
2,6-Dinitrotoluene	ND	20	ug/L	5.0

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Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL005 EFFLUENT

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-012 Work Order #...: JCLMJ1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Di-n-octyl phthalate	ND	20	ug/L	5.0
bis(2-Ethylhexyl) phthalate	**10**	**10**	**ug/L**	**1.4**
Fluoranthene	ND	20	ug/L	5.0
Fluorene	ND	10	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	2.1
Hexachlorobutadiene	ND	10	ug/L	1.3
Hexachloroethane	ND	10	ug/L	0.46
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.5
Isophorone	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.5
Nitrobenzene	ND	20	ug/L	5.0
2-Nitrophenol	ND	20	ug/L	5.0
4-Nitrophenol	ND	50	ug/L	1.7
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	5.0
Pentachlorophenol	ND	60	ug/L	20
Phenanthrene	ND	10	ug/L	1.0
Phenol	**13**	**10**	**ug/L**	**1.4**
Pyrene	ND	10	ug/L	0.37
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
2,4,6-Trichloro-phenol	ND	20	ug/L	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	66	(53 - 120)
Phenol-d5	73	(57 - 120)
Nitrobenzene-d5	75	(59 - 120)
2-Fluorobiphenyl	79	(49 - 120)
2,4,6-Tribromophenol	100	(50 - 120)
Terphenyl-d14	66	(63 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL006 SLUDGE

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-009 **Work Order #...:** JCLL71AC **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/23/06 **Analysis Date..:** 08/25/06
Prep Batch #...: 6235186 **Analysis Time..:** 17:33
Dilution Factor: 200

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Isophorone	ND	210000	ug/kg	11000
1,2-Dichlorobenzene	ND	210000	ug/kg	14000
1,2,4-Trichloro-benzene	ND	210000	ug/kg	18000
1,3-Dichlorobenzene	ND	210000	ug/kg	7600
1,4-Dichlorobenzene	ND	210000	ug/kg	8700
Acenaphthene	ND	210000	ug/kg	6600
Acenaphthylene	ND	210000	ug/kg	11000
Anthracene	ND	210000	ug/kg	11000
Benzo(a)anthracene	ND	210000	ug/kg	13000
Benzo(b)fluoranthene	ND	210000	ug/kg	17000
Benzo(k)fluoranthene	ND	210000	ug/kg	25000
Benzo(ghi)perylene	ND	210000	ug/kg	10000
Benzo(a)pyrene	ND	210000	ug/kg	13000
bis(2-Chloroethoxy) methane	ND	210000	ug/kg	15000
bis(2-Chloroethyl)-ether	ND	210000	ug/kg	11000
bis(2-Ethylhexyl) phthalate	**92000 J**	**210000**	**ug/kg**	**20000**
4-Bromophenyl phenyl ether	ND	210000	ug/kg	12000
Butyl benzyl phthalate	ND	210000	ug/kg	27000
4-Chloro-3-methylphenol	ND	210000	ug/kg	15000
2-Chloronaphthalene	ND	210000	ug/kg	6400
2-Chlorophenol	ND	210000	ug/kg	13000
4-Chlorophenyl phenyl ether	ND	210000	ug/kg	13000
Chrysene	ND	210000	ug/kg	17000
Dibenz(a,h)anthracene	ND	210000	ug/kg	12000
Di-n-butyl phthalate	ND	210000	ug/kg	18000
3,3'-Dichlorobenzidine	ND	420000	ug/kg	32000
2,4-Dichlorophenol	ND	210000	ug/kg	6400
Diethyl phthalate	ND	420000	ug/kg	17000
2,4-Dimethylphenol	ND	210000	ug/kg	17000
Dimethyl phthalate	ND	210000	ug/kg	11000
4,6-Dinitro-2-methylphenol	ND	1000000	ug/kg	32000

(Continued on next page)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL006 SLUDGE

GC/MS Semivolatiles

Lot-Sample #...: D6H170353-009 Work Order #...: JCLL71AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	1000000	ug/kg	32000
2,4-Dinitrotoluene	ND	210000	ug/kg	15000
2,6-Dinitrotoluene	ND	210000	ug/kg	18000
Di-n-octyl phthalate	ND	210000	ug/kg	9200
Fluoranthene	ND	210000	ug/kg	23000
Fluorene	ND	210000	ug/kg	11000
Hexachlorobenzene	ND	210000	ug/kg	18000
Hexachloroethane	ND	210000	ug/kg	14000
Indeno(1,2,3-cd)pyrene	ND	210000	ug/kg	14000
Naphthalene	ND	210000	ug/kg	20000
Nitrobenzene	ND	210000	ug/kg	14000
2-Nitrophenol	ND	210000	ug/kg	6400
4-Nitrophenol	ND	1000000	ug/kg	27000
N-Nitrosodi-n-propyl-amine	ND	210000	ug/kg	20000
Pentachlorophenol	ND	1000000	ug/kg	70000
Phenanthrene	ND	210000	ug/kg	11000
Phenol	ND	210000	ug/kg	11000
Pyrene	ND	210000	ug/kg	7700
2,4,6-Trichloro-phenol	ND	210000	ug/kg	6400
bis(2-Chloroisopropyl) ether	ND	210000	ug/kg	20000
Hexachlorobutadiene	ND	210000	ug/kg	6400

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(34 - 120)
Phenol-d5	NC,DIL	(37 - 120)
Nitrobenzene-d5	NC,DIL	(36 - 120)
2-Fluorobiphenyl	NC,DIL	(36 - 120)
2,4,6-Tribromophenol	NC,DIL	(30 - 120)
Terphenyl-d14	NC,DIL	(28 - 120)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES005 INFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-015 **Work Order #...:** JCLMR1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/21/06 **Analysis Date..:** 08/24/06
Prep Batch #...: 6230166 **Analysis Time..:** 23:20
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0059
alpha-BHC	ND	0.050	ug/L	0.0053
beta-BHC	ND	0.050	ug/L	0.0087
delta-BHC	**0.0084 J**	**0.050**	**ug/L**	**0.0058**
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0069
Chlordane (technical)	ND	0.50	ug/L	0.14
alpha-Chlordane	ND	0.050	ug/L	0.0053
gamma-Chlordane	ND	0.050	ug/L	0.0091
4,4'-DDD	ND	0.10	ug/L	0.0077
4,4'-DDE	ND	0.10	ug/L	0.0075
4,4'-DDT	ND	0.10	ug/L	0.015
Dieldrin	ND	0.10	ug/L	0.0063
Endosulfan I	ND	0.050	ug/L	0.0058
Endosulfan II	ND	0.10	ug/L	0.0070
Endosulfan sulfate	ND	0.10	ug/L	0.0057
Endrin	ND	0.10	ug/L	0.0079
Endrin aldehyde	ND	0.10	ug/L	0.0088
Endrin ketone	ND	0.10	ug/L	0.0070
Heptachlor	**0.47**	**0.050**	**ug/L**	**0.0077**
Heptachlor epoxide	ND	0.050	ug/L	0.0075
Methoxychlor	ND	0.50	ug/L	0.013
Mirex	ND	0.050	ug/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	40 *	(48 - 127)
Tetrachloro-m-xylene	69	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES005 INFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-015 **Work Order #...:** JCLMR2AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/21/06 **Analysis Date..:** 08/26/06
Prep Batch #...: 6230166 **Analysis Time..:** 06:21
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	1.0	ug/L	0.17
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.092
Aroclor 1254	ND	1.0	ug/L	0.11
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	31 *	(48 - 127)
Tetrachloro-m-xylene	134 *	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES006 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-016 **Work Order #...:** JCLM51AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/21/06 **Analysis Date..:** 08/24/06
Prep Batch #...: 6230166 **Analysis Time..:** 23:37
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,4'-DDT	ND	0.10	ug/L	0.015
Dieldrin	**0.021 J**	**0.10**	**ug/L**	**0.0063**
Endosulfan I	ND	0.050	ug/L	0.0058
Endosulfan II	**0.042 J**	**0.10**	**ug/L**	**0.0070**
Endosulfan sulfate	ND	0.10	ug/L	0.0057
Endrin	ND	0.10	ug/L	0.0079
Endrin aldehyde	ND	0.10	ug/L	0.0088
Endrin ketone	ND	0.10	ug/L	0.0070
Heptachlor	**0.54**	**0.050**	**ug/L**	**0.0077**
Heptachlor epoxide	ND	0.050	ug/L	0.0075
Methoxychlor	ND	0.50	ug/L	0.013
Mirex	ND	0.050	ug/L	0.010
Aldrin	ND	0.050	ug/L	0.0059
alpha-BHC	**0.023 J**	**0.050**	**ug/L**	**0.0053**
beta-BHC	ND	0.050	ug/L	0.0087
delta-BHC	ND	0.050	ug/L	0.0058
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0069
Chlordane (technical)	ND	0.50	ug/L	0.14
alpha-Chlordane	ND	0.050	ug/L	0.0053
gamma-Chlordane	ND	0.050	ug/L	0.0091
4,4'-DDD	ND	0.10	ug/L	0.0077
4,4'-DDE	ND	0.10	ug/L	0.0075

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	47 *	(48 - 127)
Tetrachloro-m-xylene	79	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES006 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-016 **Work Order #...:** JCLM52AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/21/06 **Analysis Date..:** 08/26/06
Prep Batch #...: 6230166 **Analysis Time..:** 06:45
Dilution Factor: 1

Method.....: CFR136A 608

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	1.0	ug/L	0.12
Aroclor 1221	ND	2.0	ug/L	0.21
Aroclor 1232	ND	1.0	ug/L	0.17
Aroclor 1242	ND	1.0	ug/L	0.10
Aroclor 1248	ND	1.0	ug/L	0.092
Aroclor 1254	ND	1.0	ug/L	0.11
Aroclor 1260	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	26 *	(48 - 127)
Tetrachloro-m-xylene	69	(40 - 107)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PST004 INFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-013 **Work Order #...:** JCLML1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/18/06 **Analysis Date..:** 08/31/06
Prep Batch #...: 6230152 **Analysis Time..:** 05:09
Dilution Factor: 1

Method.....: MCAWW 614

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.45
Demeton (total)	ND	1.0	ug/L	0.22
Malathion	ND	1.2	ug/L	0.096
Methyl parathion	ND	4.0	ug/L	1.0
Ethyl parathion	ND	1.0	ug/L	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	152	(49 - 171)
Triphenyl phosphate	136	(60 - 154)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PST005 EFFLUENT

GC Semivolatiles

Lot-Sample #...: D6H170353-014 **Work Order #...:** JCLMP1AA **Matrix.....:** WATER
Date Sampled...: 08/15/06 08:00 **Date Received..:** 08/17/06
Prep Date.....: 08/18/06 **Analysis Date..:** 08/31/06
Prep Batch #...: 6230152 **Analysis Time..:** 06:44
Dilution Factor: 1

Method.....: MCAWW 614

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	2.5	ug/L	0.45
Demeton (total)	ND	1.0	ug/L	0.22
Malathion	ND	1.2	ug/L	0.096
Methyl parathion	ND	4.0	ug/L	1.0
Ethyl parathion	ND	1.0	ug/L	0.29

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	111	(49 - 171)
Triphenyl phosphate	126	(60 - 154)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES007 SLUDGE

GC Semivolatiles

Lot-Sample #...: D6H170353-008 Work Order #...: JCLL21AD Matrix.....: SOLID
Date Sampled...: 08/15/06 09:00 Date Received..: 08/17/06
Prep Date.....: 08/23/06 Analysis Date..: 09/15/06
Prep Batch #...: 6235437 Analysis Time..: 15:55
Dilution Factor: 10

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Mirex	ND	54	ug/kg	8.5
Aldrin	ND	54	ug/kg	8.0
alpha-BHC	ND	54	ug/kg	6.8
beta-BHC	**39 J,COL**	**54**	**ug/kg**	**9.1**
delta-BHC	ND	54	ug/kg	5.3
gamma-BHC (Lindane)	ND	54	ug/kg	4.6
Chlordane (technical)	ND	800	ug/kg	250
alpha-Chlordane	ND	54	ug/kg	10
gamma-Chlordane	ND	54	ug/kg	8.5
4,4'-DDD	ND	54	ug/kg	17
4,4'-DDE	ND	54	ug/kg	7.6
4,4'-DDT	ND	54	ug/kg	19
Dieldrin	ND	54	ug/kg	6.7
Endosulfan I	ND	54	ug/kg	5.6
Endosulfan II	ND	54	ug/kg	9.2
Endosulfan sulfate	ND	54	ug/kg	8.8
Endrin	ND	54	ug/kg	9.8
Endrin aldehyde	ND	54	ug/kg	6.8
Endrin ketone	ND	54	ug/kg	6.8
Heptachlor	**640**	**54**	**ug/kg**	**6.8**
Heptachlor epoxide	ND	54	ug/kg	14
Methoxychlor	**18 J,COL**	**110**	**ug/kg**	**14**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(49 - 130)
Tetrachloro-m-xylene	NC,DIL	(46 - 127)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES007 SLUDGE

GC Semivolatiles

Lot-Sample #...:	D6H170353-008	**Work Order #...:**	JCLL21AE	**Matrix.....:**	SOLID
Date Sampled...:	08/15/06 09:00	**Date Received..:**	08/17/06		
Prep Date.....:	08/23/06	**Analysis Date..:**	09/06/06		
Prep Batch #...:	6235438	**Analysis Time..:**	23:46		
Dilution Factor:	1				
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	110	ug/kg	16
Aroclor 1221	ND	150	ug/kg	50
Aroclor 1232	ND	110	ug/kg	16
Aroclor 1242	ND	110	ug/kg	29
Aroclor 1248	ND	110	ug/kg	18
Aroclor 1254	ND	110	ug/kg	18
Aroclor 1260	ND	110	ug/kg	8.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(53 - 132)
Decachlorobiphenyl	87	(38 - 162)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES007 SLUDGE

GC Semivolatiles

Lot-Sample #...: D6H170353-008 **Work Order #...:** JCLL21AA **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/18/06 **Analysis Date..:** 09/05/06
Prep Batch #...: 6230118 **Analysis Time..:** 11:17
Dilution Factor: 20

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Azinphos-methyl	ND	830	ug/kg	220
Demeton (total)	ND	2500	ug/kg	480
Malathion	ND	960	ug/kg	300
Ethyl parathion	ND	1200	ug/kg	340
Methyl parathion	ND	1300	ug/kg	410

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	NC,DIL	(37 - 124)
Triphenyl phosphate	NC,DIL	(50 - 150)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN004 INFLUENT

Trace Level Organic Compounds

Lot-Sample #...:	D6H170353-005	**Work Order #...:**	JCLLC1AA	**Matrix.....:**	WATER
Date Sampled...:	08/15/06 08:00	**Date Received..:**	08/17/06		
Prep Date.....:	08/24/06	**Analysis Date..:**	08/28/06		
Prep Batch #...:	6236361	**Analysis Time..:**	20:45		
Dilution Factor:	1				

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.12	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	64	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	95	(25 - 150)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN005 EFFLUENT

Trace Level Organic Compounds

Lot-Sample #...:	D6H170353-006	**Work Order #...:**	JCLLJ1AA	**Matrix.....:**	WATER
Date Sampled...:	08/15/06 08:00	**Date Received..:**	08/17/06		
Prep Date.....:	08/24/06	**Analysis Date..:**	08/28/06		
Prep Batch #...:	6236361	**Analysis Time..:**	21:33		
Dilution Factor:	1				

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.088	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	88	(25 - 150)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN006 SLUDGE

Trace Level Organic Compounds

Lot-Sample #...: D6H170353-007 **Work Order #...:** JCLLN1AC **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/24/06 **Analysis Date..:** 08/26/06
Prep Batch #...: 6236358 **Analysis Time..:** 02:38
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.30	ng/g	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	92	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06DXN006 SLUDGE

General Chemistry

Lot-Sample #...: D6H170353-007 Work Order #...: JCLLN Matrix.....: SOLID
Date Sampled...: 08/15/06 09:00 Date Received..: 08/17/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	67	0.10	%	ASTM D 2216-90	08/21-08/22/06	6233313

Dilution Factor: 1 Analysis Time..: 10:20 MDL.....: 0.10

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06PES007 SLUDGE

General Chemistry

Lot-Sample #...: D6H170353-008 **Work Order #...:** JCLL2 **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD	08/29-08/30/06	6241521
		Dilution Factor: 1		Analysis Time..: 00:40	MDL.....: 0.0	

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06SVL006 SLUDGE

General Chemistry

Lot-Sample #...: D6H170353-009 **Work Order #...:** JCLL7 **Matrix.....:** SOLID
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	69	0.10	%	MCAWW 160.3 MOD	08/29-08/30/06	6241521

Dilution Factor: 1 Analysis Time..: 00:40 MDL.....: 0.0

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOP038 SLUDGE

General Chemistry

Lot-Sample #...: D6H170353-010 Work Order #...: JCLMC Matrix.....: SOLID
Date Sampled...: 08/15/06 09:00 Date Received..: 08/17/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	68	0.10	%	MCAWW 160.3 MOD	08/29-08/30/06	6241521

Dilution Factor: 1 Analysis Time..: 00:40 MDL.....: 0.0

QC DATA ASSOCIATION SUMMARY

D6H170353

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	CFR136A 624		6235293	6235132
002	WATER	CFR136A 624		6235293	6235132
003	WATER	CFR136A 624		6235293	6235132
004	WATER	CFR136A 624		6235293	6235132
005	WATER	SW846 8280A		6236361	
006	WATER	SW846 8280A		6236361	
007	SOLID	ASTM D 2216-90		6233313	6233237
	SOLID	SW846 8280A		6236358	
008	SOLID	SW846 8141A		6230118	
	SOLID	SW846 8082		6235438	6235245
	SOLID	SW846 8081A		6235437	6235242
	SOLID	MCAWW 160.3 MOD		6241521	6241355
009	SOLID	SW846 8270C		6235186	6235091
	SOLID	MCAWW 160.3 MOD		6241521	6241355
010	SOLID	SW846 8260B		6234254	6234322
	SOLID	MCAWW 160.3 MOD		6241521	6241355
011	WATER	CFR136A 625		6230120	
012	WATER	CFR136A 625		6230120	
013	WATER	MCAWW 614		6230152	
014	WATER	MCAWW 614		6230152	
015	WATER	CFR136A 608		6230166	6230084
016	WATER	CFR136A 608		6230166	6230084

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 **Work Order #...:** JC0WA1AA **Matrix.....:** WATER
MB Lot-Sample #: D6H230000-293

Analysis Date..: 08/22/06 **Prep Date.....:** 08/22/06 **Analysis Time..:** 08:11
Dilution Factor: 1 **Prep Batch #...:** 6235293

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	10	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
Chloroethane	ND	10	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
Chloromethane	ND	10	ug/L	CFR136A 624
Dibromochloromethane	ND	5.0	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
cis-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
trans-1,3-Dichloropropene	ND	5.0	ug/L	CFR136A 624
Ethylbenzene	ND	5.0	ug/L	CFR136A 624
Methylene chloride	**1.6 J**	**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
Trichlorofluoromethane	ND	10	ug/L	CFR136A 624
Vinyl chloride	ND	10	ug/L	CFR136A 624
2-Chloroethyl vinyl ether	ND	5.0	ug/L	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(73 - 122)
4-Bromofluorobenzene	90	(79 - 119)
Toluene-d8	99	(80 - 120)

NOTE(S):

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 Work Order #...: JC0WA1AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 Work Order #...: JC0WA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H230000-293 JC0WA1AD-LCSD
Prep Date.....: 08/22/06 Analysis Date..: 08/22/06
Prep Batch #...: 6235293 Analysis Time..: 07:13
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	102	(80 - 120)			CFR136A 624
	105	(80 - 120)	3.1	(0-30)	CFR136A 624
Bromodichloromethane	91	(76 - 122)			CFR136A 624
	95	(76 - 122)	3.6	(0-30)	CFR136A 624
Bromoform	87	(68 - 130)			CFR136A 624
	86	(68 - 130)	2.1	(0-30)	CFR136A 624
Bromomethane	80	(49 - 151)			CFR136A 624
	82	(49 - 151)	2.2	(0-30)	CFR136A 624
Carbon tetrachloride	95	(72 - 130)			CFR136A 624
	95	(72 - 130)	0.36	(0-30)	CFR136A 624
Chlorobenzene	101	(78 - 125)			CFR136A 624
	100	(78 - 125)	1.8	(0-30)	CFR136A 624
Chloroethane	84	(58 - 150)			CFR136A 624
	83	(58 - 150)	1.7	(0-30)	CFR136A 624
Chloroform	94	(78 - 122)			CFR136A 624
	99	(78 - 122)	5.0	(0-30)	CFR136A 624
Chloromethane	74	(46 - 162)			CFR136A 624
	74	(46 - 162)	0.020	(0-30)	CFR136A 624
Dibromochloromethane	90	(76 - 123)			CFR136A 624
	92	(76 - 123)	1.7	(0-30)	CFR136A 624
1,2-Dichlorobenzene	101	(75 - 128)			CFR136A 624
	99	(75 - 128)	1.9	(0-30)	CFR136A 624
1,3-Dichlorobenzene	103	(77 - 128)			CFR136A 624
	100	(77 - 128)	2.6	(0-30)	CFR136A 624
1,4-Dichlorobenzene	105	(76 - 126)			CFR136A 624
	101	(76 - 126)	3.1	(0-30)	CFR136A 624
1,1-Dichloroethane	99	(77 - 121)			CFR136A 624
	98	(77 - 121)	1.3	(0-30)	CFR136A 624
1,2-Dichloroethane	90	(75 - 121)			CFR136A 624
	94	(75 - 121)	3.6	(0-30)	CFR136A 624
1,1-Dichloroethene	90	(63 - 137)			CFR136A 624
	89	(63 - 137)	0.90	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	96	(73 - 127)			CFR136A 624
	97	(73 - 127)	1.3	(0-30)	CFR136A 624
1,2-Dichloropropane	99	(79 - 123)			CFR136A 624
	98	(79 - 123)	1.1	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	89	(76 - 119)			CFR136A 624
	91	(76 - 119)	1.6	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	88	(68 - 126)			CFR136A 624
	91	(68 - 126)	3.7	(0-30)	CFR136A 624

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 Work Order #...: JC0WA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H230000-293 JC0WA1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	110	(74 - 131)			CFR136A 624
	105	(74 - 131)	4.5	(0-30)	CFR136A 624
Methylene chloride	84	(73 - 120)			CFR136A 624
	86	(73 - 120)	2.2	(0-30)	CFR136A 624
1,1,2,2-Tetrachloroethane	88	(63 - 133)			CFR136A 624
	97	(63 - 133)	10	(0-30)	CFR136A 624
Tetrachloroethene	110	(77 - 130)			CFR136A 624
	103	(77 - 130)	6.4	(0-30)	CFR136A 624
Toluene	109	(73 - 129)			CFR136A 624
	107	(73 - 129)	1.1	(0-30)	CFR136A 624
1,1,1-Trichloroethane	96	(73 - 129)			CFR136A 624
	94	(73 - 129)	1.7	(0-30)	CFR136A 624
1,1,2-Trichloroethane	97	(74 - 127)			CFR136A 624
	97	(74 - 127)	0.33	(0-30)	CFR136A 624
Trichloroethene	99	(79 - 123)			CFR136A 624
	98	(79 - 123)	1.6	(0-30)	CFR136A 624
Trichlorofluoromethane	88	(59 - 145)			CFR136A 624
	81	(59 - 145)	7.8	(0-30)	CFR136A 624
Vinyl chloride	81	(55 - 144)			CFR136A 624
	79	(55 - 144)	2.6	(0-30)	CFR136A 624
2-Chloroethyl vinyl ether	80	(51 - 134)			CFR136A 624
	88	(51 - 134)	9.2	(0-45)	CFR136A 624
1,4-Dioxane	70	(25 - 141)			CFR136A 624
	71	(25 - 141)	1.4	(0-20)	CFR136A 624
Acetone	71	(42 - 170)			CFR136A 624
	73	(42 - 170)	2.9	(0-20)	CFR136A 624
1,3-Dichloropropene (total)	89	(75 - 119)			CFR136A 624
	91	(75 - 119)	2.7	(0-20)	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(73 - 122)
	88	(73 - 122)
4-Bromofluorobenzene	94	(79 - 119)
	91	(79 - 119)
Toluene-d8	103	(80 - 120)
	101	(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 #...: D6H170353 Work Order #...: JC0WA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H230000-293 JC0WA1AD-LCSD
Prep Date.....: 08/22/06 Analysis Date..: 08/22/06
Prep Batch #...: 6235293 Analysis Time..: 07:13
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	20.0	20.3	ug/L	102		CFR136A 624
	20.0	21.0	ug/L	105	3.1	CFR136A 624
Bromodichloromethane	20.0	18.3	ug/L	91		CFR136A 624
	20.0	18.9	ug/L	95	3.6	CFR136A 624
Bromoform	20.0	17.5	ug/L	87		CFR136A 624
	20.0	17.1	ug/L	86	2.1	CFR136A 624
Bromomethane	20.0	15.9	ug/L	80		CFR136A 624
	20.0	16.3	ug/L	82	2.2	CFR136A 624
Carbon tetrachloride	20.0	19.0	ug/L	95		CFR136A 624
	20.0	19.1	ug/L	95	0.36	CFR136A 624
Chlorobenzene	20.0	20.3	ug/L	101		CFR136A 624
	20.0	19.9	ug/L	100	1.8	CFR136A 624
Chloroethane	20.0	16.9	ug/L	84		CFR136A 624
	20.0	16.6	ug/L	83	1.7	CFR136A 624
Chloroform	20.0	18.8	ug/L	94		CFR136A 624
	20.0	19.7	ug/L	99	5.0	CFR136A 624
Chloromethane	20.0	14.8	ug/L	74		CFR136A 624
	20.0	14.8	ug/L	74	0.020	CFR136A 624
Dibromochloromethane	20.0	18.1	ug/L	90		CFR136A 624
	20.0	18.4	ug/L	92	1.7	CFR136A 624
1,2-Dichlorobenzene	20.0	20.1	ug/L	101		CFR136A 624
	20.0	19.7	ug/L	99	1.9	CFR136A 624
1,3-Dichlorobenzene	20.0	20.6	ug/L	103		CFR136A 624
	20.0	20.1	ug/L	100	2.6	CFR136A 624
1,4-Dichlorobenzene	20.0	20.9	ug/L	105		CFR136A 624
	20.0	20.3	ug/L	101	3.1	CFR136A 624
1,1-Dichloroethane	20.0	19.8	ug/L	99		CFR136A 624
	20.0	19.5	ug/L	98	1.3	CFR136A 624
1,2-Dichloroethane	20.0	18.1	ug/L	90		CFR136A 624
	20.0	18.7	ug/L	94	3.6	CFR136A 624
1,1-Dichloroethene	20.0	17.9	ug/L	90		CFR136A 624
	20.0	17.8	ug/L	89	0.90	CFR136A 624
trans-1,2-Dichloroethene	20.0	19.2	ug/L	96		CFR136A 624
	20.0	19.4	ug/L	97	1.3	CFR136A 624
1,2-Dichloropropane	20.0	19.8	ug/L	99		CFR136A 624
	20.0	19.6	ug/L	98	1.1	CFR136A 624
cis-1,3-Dichloropropene	20.0	17.9	ug/L	89		CFR136A 624
	20.0	18.2	ug/L	91	1.6	CFR136A 624
trans-1,3-Dichloropropene	20.0	17.6	ug/L	88		CFR136A 624
	20.0	18.3	ug/L	91	3.7	CFR136A 624

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 Work Order #...: JC0WA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H230000-293 JC0WA1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	20.0	21.9	ug/L	110		CFR136A 624
	20.0	21.0	ug/L	105	4.5	CFR136A 624
Methylene chloride	20.0	16.9	ug/L	84		CFR136A 624
	20.0	17.3	ug/L	86	2.2	CFR136A 624
1,1,2,2-Tetrachloroethane	20.0	17.5	ug/L	88		CFR136A 624
	20.0	19.4	ug/L	97	10	CFR136A 624
Tetrachloroethene	20.0	22.0	ug/L	110		CFR136A 624
	20.0	20.6	ug/L	103	6.4	CFR136A 624
Toluene	20.0	21.7	ug/L	109		CFR136A 624
	20.0	21.5	ug/L	107	1.1	CFR136A 624
1,1,1-Trichloroethane	20.0	19.2	ug/L	96		CFR136A 624
	20.0	18.9	ug/L	94	1.7	CFR136A 624
1,1,2-Trichloroethane	20.0	19.5	ug/L	97		CFR136A 624
	20.0	19.4	ug/L	97	0.33	CFR136A 624
Trichloroethene	20.0	19.8	ug/L	99		CFR136A 624
	20.0	19.5	ug/L	98	1.6	CFR136A 624
Trichlorofluoromethane	20.0	17.6	ug/L	88		CFR136A 624
	20.0	16.2	ug/L	81	7.8	CFR136A 624
Vinyl chloride	20.0	16.2	ug/L	81		CFR136A 624
	20.0	15.8	ug/L	79	2.6	CFR136A 624
2-Chloroethyl vinyl ether	20.0	16.1	ug/L	80		CFR136A 624
	20.0	17.6	ug/L	88	9.2	CFR136A 624
1,4-Dioxane	1000	697	ug/L	70		CFR136A 624
	1000	706	ug/L	71	1.4	CFR136A 624
Acetone	40.0	28.5	ug/L	71		CFR136A 624
	40.0	29.3	ug/L	73	2.9	CFR136A 624
1,3-Dichloropropene (total)	40.0	35.5	ug/L	89		CFR136A 624
	40.0	36.4	ug/L	91	2.7	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(73 - 122)
	88	(73 - 122)
4-Bromofluorobenzene	94	(79 - 119)
	91	(79 - 119)
Toluene-d8	103	(80 - 120)
	101	(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 #...: D6H170353
MS Lot-Sample #: D6H170370-002
Date Sampled...: 08/15/06 10:44
Prep Date.....: 08/22/06
Prep Batch #...: 6235293
Dilution Factor: 1

Work Order #...: JCLPD1AD-MS
JCLPD1AE-MSD
Date Received..: 08/17/06
Analysis Date..: 08/22/06
Analysis Time..: 08:53

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	107	(80 - 120)			CFR136A 624
	111	(80 - 120)	3.3	(0-30)	CFR136A 624
Bromodichloromethane	97	(76 - 122)			CFR136A 624
	103	(76 - 122)	5.6	(0-30)	CFR136A 624
Bromoform	93	(68 - 130)			CFR136A 624
	93	(68 - 130)	0.64	(0-30)	CFR136A 624
Bromomethane	85	(49 - 151)			CFR136A 624
	87	(49 - 151)	1.9	(0-30)	CFR136A 624
Carbon tetrachloride	99	(72 - 130)			CFR136A 624
	104	(72 - 130)	5.0	(0-30)	CFR136A 624
Chlorobenzene	99	(78 - 125)			CFR136A 624
	105	(78 - 125)	6.5	(0-30)	CFR136A 624
Chloroethane	88	(58 - 150)			CFR136A 624
	90	(58 - 150)	2.4	(0-30)	CFR136A 624
Chloroform	100	(78 - 122)			CFR136A 624
	104	(78 - 122)	2.5	(0-30)	CFR136A 624
Chloromethane	79	(46 - 162)			CFR136A 624
	80	(46 - 162)	1.1	(0-30)	CFR136A 624
Dibromochloromethane	96	(76 - 123)			CFR136A 624
	99	(76 - 123)	2.9	(0-30)	CFR136A 624
1,2-Dichlorobenzene	102	(75 - 128)			CFR136A 624
	103	(75 - 128)	1.1	(0-30)	CFR136A 624
1,3-Dichlorobenzene	105	(77 - 128)			CFR136A 624
	106	(77 - 128)	0.93	(0-30)	CFR136A 624
1,4-Dichlorobenzene	108	(76 - 126)			CFR136A 624
	110	(76 - 126)	1.8	(0-30)	CFR136A 624
1,1-Dichloroethane	100	(77 - 121)			CFR136A 624
	105	(77 - 121)	5.7	(0-30)	CFR136A 624
1,2-Dichloroethane	92	(75 - 121)			CFR136A 624
	99	(75 - 121)	6.9	(0-30)	CFR136A 624
1,1-Dichloroethene	93	(63 - 137)			CFR136A 624
	102	(63 - 137)	9.3	(0-30)	CFR136A 624
trans-1,2-Dichloroethene	103	(73 - 127)			CFR136A 624
	109	(73 - 127)	6.2	(0-30)	CFR136A 624
1,2-Dichloropropane	107	(79 - 123)			CFR136A 624
	110	(79 - 123)	2.4	(0-30)	CFR136A 624
cis-1,3-Dichloropropene	93	(76 - 119)			CFR136A 624
	99	(76 - 119)	6.4	(0-30)	CFR136A 624
trans-1,3-Dichloropropene	93	(68 - 126)			CFR136A 624
	95	(68 - 126)	1.9	(0-30)	CFR136A 624

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 **Work Order #...:** JCLPD1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: D6H170370-002 JCLPD1AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethylbenzene	104	(74 - 131)			CFR136A 624
	112	(74 - 131)	7.6	(0-30)	CFR136A 624
Methylene chloride	83	(73 - 120)			CFR136A 624
	90	(73 - 120)	7.1	(0-30)	CFR136A 624
1,1,2,2-Tetrachloroethane	106	(63 - 133)			CFR136A 624
	112	(63 - 133)	5.1	(0-30)	CFR136A 624
Tetrachloroethene	107	(77 - 130)			CFR136A 624
	108	(77 - 130)	0.52	(0-30)	CFR136A 624
Toluene	111	(73 - 129)			CFR136A 624
	110	(73 - 129)	0.88	(0-30)	CFR136A 624
1,1,1-Trichloroethane	99	(73 - 129)			CFR136A 624
	104	(73 - 129)	4.2	(0-30)	CFR136A 624
1,1,2-Trichloroethane	104	(74 - 127)			CFR136A 624
	104	(74 - 127)	0.34	(0-30)	CFR136A 624
Trichloroethene	104	(79 - 123)			CFR136A 624
	108	(79 - 123)	3.9	(0-30)	CFR136A 624
Trichlorofluoromethane	86	(59 - 145)			CFR136A 624
	88	(59 - 145)	2.8	(0-30)	CFR136A 624
Vinyl chloride	86	(55 - 144)			CFR136A 624
	87	(55 - 144)	1.8	(0-30)	CFR136A 624
2-Chloroethyl vinyl ether	119	(51 - 134)			CFR136A 624
	132	(51 - 134)	10	(0-45)	CFR136A 624
1,4-Dioxane	96	(25 - 141)			CFR136A 624
	98	(25 - 141)	1.6	(0-20)	CFR136A 624
Acetone	83	(42 - 170)			CFR136A 624
	84	(42 - 170)	0.31	(0-20)	CFR136A 624
1,3-Dichloropropene (total)	93	(75 - 119)			CFR136A 624
	97	(75 - 119)	4.2	(0-20)	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(73 - 122)
	91	(73 - 122)
4-Bromofluorobenzene	87	(79 - 119)
	91	(79 - 119)
Toluene-d8	102	(80 - 120)
	99	(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 #...: D6H170353 Work Order #...: JCLPD1AD-MS Matrix.....: WATER
MS Lot-Sample #: D6H170370-002 JCLPD1AE-MSD
Date Sampled...: 08/15/06 10:44 Date Received..: 08/17/06
Prep Date.....: 08/22/06 Analysis Date..: 08/22/06
Prep Batch #...: 6235293 Analysis Time..: 08:53
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	0.25	20.0	21.7	ug/L	107		CFR136A 624
	0.25	20.0	22.5	ug/L	111	3.3	CFR136A 624
Bromodichloromethane	ND	20.0	19.4	ug/L	97		CFR136A 624
	ND	20.0	20.6	ug/L	103	5.6	CFR136A 624
Bromoform	ND	20.0	18.6	ug/L	93		CFR136A 624
	ND	20.0	18.7	ug/L	93	0.64	CFR136A 624
Bromomethane	ND	20.0	17.0	ug/L	85		CFR136A 624
	ND	20.0	17.3	ug/L	87	1.9	CFR136A 624
Carbon tetrachloride	ND	20.0	19.9	ug/L	99		CFR136A 624
	ND	20.0	20.9	ug/L	104	5.0	CFR136A 624
Chlorobenzene	ND	20.0	19.7	ug/L	99		CFR136A 624
	ND	20.0	21.1	ug/L	105	6.5	CFR136A 624
Chloroethane	ND	20.0	17.7	ug/L	88		CFR136A 624
	ND	20.0	18.1	ug/L	90	2.4	CFR136A 624
Chloroform	10	20.0	30.6	ug/L	100		CFR136A 624
	10	20.0	31.3	ug/L	104	2.5	CFR136A 624
Chloromethane	ND	20.0	15.9	ug/L	79		CFR136A 624
	ND	20.0	16.0	ug/L	80	1.1	CFR136A 624
Dibromochloromethane	ND	20.0	19.3	ug/L	96		CFR136A 624
	ND	20.0	19.9	ug/L	99	2.9	CFR136A 624
1,2-Dichlorobenzene	ND	20.0	20.5	ug/L	102		CFR136A 624
	ND	20.0	20.7	ug/L	103	1.1	CFR136A 624
1,3-Dichlorobenzene	ND	20.0	21.1	ug/L	105		CFR136A 624
	ND	20.0	21.3	ug/L	106	0.93	CFR136A 624
1,4-Dichlorobenzene	ND	20.0	21.5	ug/L	108		CFR136A 624
	ND	20.0	21.9	ug/L	110	1.8	CFR136A 624
1,1-Dichloroethane	ND	20.0	19.9	ug/L	100		CFR136A 624
	ND	20.0	21.1	ug/L	105	5.7	CFR136A 624
1,2-Dichloroethane	ND	20.0	18.4	ug/L	92		CFR136A 624
	ND	20.0	19.8	ug/L	99	6.9	CFR136A 624
1,1-Dichloroethene	ND	20.0	18.6	ug/L	93		CFR136A 624
	ND	20.0	20.4	ug/L	102	9.3	CFR136A 624
trans-1,2-Dichloroethene	ND	20.0	20.6	ug/L	103		CFR136A 624
	ND	20.0	21.9	ug/L	109	6.2	CFR136A 624
1,2-Dichloropropane	ND	20.0	21.4	ug/L	107		CFR136A 624
	ND	20.0	21.9	ug/L	110	2.4	CFR136A 624
cis-1,3-Dichloropropene	ND	20.0	18.5	ug/L	93		CFR136A 624
	ND	20.0	19.8	ug/L	99	6.4	CFR136A 624
trans-1,3-Dichloropropene	ND	20.0	18.7	ug/L	93		CFR136A 624
	ND	20.0	19.0	ug/L	95	1.9	CFR136A 624

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 Work Order #...: JCLPD1AD-MS Matrix.....: WATER
MS Lot-Sample #: D6H170370-002 JCLPD1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	ND	20.0	20.8	ug/L	104		CFR136A 624
	ND	20.0	22.4	ug/L	112	7.6	CFR136A 624
Methylene chloride	1.9	20.0	18.5	ug/L	83		CFR136A 624
	1.9	20.0	19.8	ug/L	90	7.1	CFR136A 624
1,1,2,2-Tetrachloroethane	ND	20.0	21.2	ug/L	106		CFR136A 624
	ND	20.0	22.4	ug/L	112	5.1	CFR136A 624
Tetrachloroethene	ND	20.0	21.4	ug/L	107		CFR136A 624
	ND	20.0	21.5	ug/L	108	0.52	CFR136A 624
Toluene	0.60	20.0	22.8	ug/L	111		CFR136A 624
	0.60	20.0	22.6	ug/L	110	0.88	CFR136A 624
1,1,1-Trichloroethane	ND	20.0	19.9	ug/L	99		CFR136A 624
	ND	20.0	20.7	ug/L	104	4.2	CFR136A 624
1,1,2-Trichloroethane	ND	20.0	20.8	ug/L	104		CFR136A 624
	ND	20.0	20.9	ug/L	104	0.34	CFR136A 624
Trichloroethene	ND	20.0	20.9	ug/L	104		CFR136A 624
	ND	20.0	21.7	ug/L	108	3.9	CFR136A 624
Trichlorofluoromethane	ND	20.0	17.2	ug/L	86		CFR136A 624
	ND	20.0	17.7	ug/L	88	2.8	CFR136A 624
Vinyl chloride	ND	20.0	17.2	ug/L	86		CFR136A 624
	ND	20.0	17.5	ug/L	87	1.8	CFR136A 624
2-Chloroethyl vinyl ether	ND	20.0	23.9	ug/L	119		CFR136A 624
	ND	20.0	26.5	ug/L	132	10	CFR136A 624
1,4-Dioxane	ND	1000	963	ug/L	96		CFR136A 624
	ND	1000	979	ug/L	98	1.6	CFR136A 624
Acetone	110	40.0	141	ug/L	83		CFR136A 624
	110	40.0	142	ug/L	84	0.31	CFR136A 624
1,3-Dichloropropene (total)	ND	40.0	37.2	ug/L	93		CFR136A 624
	ND	40.0	38.8	ug/L	97	4.2	CFR136A 624

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	88	(73 - 122)
	91	(73 - 122)
4-Bromofluorobenzene	87	(79 - 119)
	91	(79 - 119)
Toluene-d8	102	(80 - 120)
	99	(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 #...: D6H170353 **Work Order #...:** JCW9Q1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6H220000-254

Prep Date.....: 08/19/06 **Analysis Time..:** 11:47
Analysis Date..: 08/19/06 **Prep Batch #...:** 6234254
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Chloroethyl vinyl ether	ND	50	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	10	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(10 - 179)
1,2-Dichloroethane-d4	76	(60 - 143)
4-Bromofluorobenzene	101	(59 - 129)
Toluene-d8	106	(68 - 134)

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 #...: D6H170353 **Work Order #...:** JCW9Q1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: D6H220000-254 JCW9Q1AD-LCSD
Prep Date.....: 08/19/06 **Analysis Date..:** 08/19/06
Prep Batch #...: 6234254 **Analysis Time..:** 10:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**90**	**(76 - 116)**			**SW846 8260B**
	90	**(76 - 116)**	**0.38**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**86**	**(74 - 114)**			**SW846 8260B**
	84	**(74 - 114)**	**1.7**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**90**	**(77 - 143)**			**SW846 8260B**
	88	**(77 - 143)**	**2.2**	**(0-20)**	**SW846 8260B**
Toluene	**82**	**(72 - 113)**			**SW846 8260B**
	81	**(72 - 113)**	**0.38**	**(0-20)**	**SW846 8260B**
Trichloroethene	**97**	**(78 - 118)**			**SW846 8260B**
	97	**(78 - 118)**	**0.060**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	69	(58 - 140)
	69	(58 - 140)
4-Bromofluorobenzene	91	(76 - 127)
	91	(76 - 127)
Toluene-d8	97	(80 - 126)
	97	(80 - 126)

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 #...: D6H170353
LCS Lot-Sample#: D6H220000-254
Prep Date.....: 08/19/06
Prep Batch #...: 6234254
Dilution Factor: 1

Work Order #...: JCW9Q1AC-LCS
JCW9Q1AD-LCSD
Analysis Date..: 08/19/06
Analysis Time..: 10:59

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	50.0	45.2	ug/kg	90		SW846 8260B
	50.0	45.0	ug/kg	90	0.38	SW846 8260B
Chlorobenzene	50.0	42.9	ug/kg	86		SW846 8260B
	50.0	42.2	ug/kg	84	1.7	SW846 8260B
1,1-Dichloroethene	50.0	44.9	ug/kg	90		SW846 8260B
	50.0	43.9	ug/kg	88	2.2	SW846 8260B
Toluene	50.0	40.8	ug/kg	82		SW846 8260B
	50.0	40.6	ug/kg	81	0.38	SW846 8260B
Trichloroethene	50.0	48.7	ug/kg	97		SW846 8260B
	50.0	48.7	ug/kg	97	0.060	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	69	(58 - 140)
	69	(58 - 140)
4-Bromofluorobenzene	91	(76 - 127)
	91	(76 - 127)
Toluene-d8	97	(80 - 126)
	97	(80 - 126)

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 #...:	D6H170353	**Work Order #...:**	JCVT11AC-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	D6E190324-077		JCVT11AD-MSD		
Date Sampled...:	08/16/06 07:00	**Date Received..:**	08/16/06		
Prep Date.....:	08/19/06	**Analysis Date..:**	08/19/06		
Prep Batch #...:	6234254	**Analysis Time..:**	12:34		
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**80**	**(41 - 130)**			**SW846 8260B**
	83	**(41 - 130)**	**2.8**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**76**	**(31 - 129)**			**SW846 8260B**
	77	**(31 - 129)**	**1.8**	**(0-29)**	**SW846 8260B**
1,1-Dichloroethene	**78**	**(32 - 146)**			**SW846 8260B**
	81	**(32 - 146)**	**2.9**	**(0-30)**	**SW846 8260B**
Toluene	**74**	**(30 - 130)**			**SW846 8260B**
	76	**(30 - 130)**	**2.6**	**(0-31)**	**SW846 8260B**
Trichloroethene	**87**	**(34 - 132)**			**SW846 8260B**
	89	**(34 - 132)**	**1.8**	**(0-49)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(10 - 179)
	85	(10 - 179)
1,2-Dichloroethane-d4	71	(60 - 143)
	70	(60 - 143)
4-Bromofluorobenzene	93	(59 - 129)
	94	(59 - 129)
Toluene-d8	99	(68 - 134)
	100	(68 - 134)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D6H170353 **Work Order #...:** JCVT11AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6E190324-077 JCVT11AD-MSD
Date Sampled...: 08/16/06 07:00 **Date Received..:** 08/16/06
Prep Date.....: 08/19/06 **Analysis Date..:** 08/19/06
Prep Batch #...: 6234254 **Analysis Time..:** 12:34
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**50.0**	**40.1**	**ug/kg**	**80**		**SW846 8260B**
	ND	**50.0**	**41.3**	**ug/kg**	**83**	**2.8**	**SW846 8260B**
Chlorobenzene	**ND**	**50.0**	**37.8**	**ug/kg**	**76**		**SW846 8260B**
	ND	**50.0**	**38.5**	**ug/kg**	**77**	**1.8**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**50.0**	**39.2**	**ug/kg**	**78**		**SW846 8260B**
	ND	**50.0**	**40.4**	**ug/kg**	**81**	**2.9**	**SW846 8260B**
Toluene	**ND**	**50.0**	**37.0**	**ug/kg**	**74**		**SW846 8260B**
	ND	**50.0**	**38.0**	**ug/kg**	**76**	**2.6**	**SW846 8260B**
Trichloroethene	**ND**	**50.0**	**43.6**	**ug/kg**	**87**		**SW846 8260B**
	ND	**50.0**	**44.4**	**ug/kg**	**89**	**1.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(10 - 179)
	85	(10 - 179)
1,2-Dichloroethane-d4	71	(60 - 143)
	70	(60 - 143)
4-Bromofluorobenzene	93	(59 - 129)
	94	(59 - 129)
Toluene-d8	99	(68 - 134)
	100	(68 - 134)

NOTE(S):

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCME21AA **Matrix.....:** WATER
MB Lot-Sample #: D6H180000-120

Prep Date.....: 08/18/06 **Analysis Time..:** 10:08
Analysis Date..: 08/22/06 **Prep Batch #...:** 6230120
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	CFR136A 625
Acenaphthylene	ND	10	ug/L	CFR136A 625
Anthracene	ND	10	ug/L	CFR136A 625
Benzo(a)anthracene	ND	10	ug/L	CFR136A 625
Benzo(a)pyrene	ND	10	ug/L	CFR136A 625
Benzo(b)fluoranthene	ND	10	ug/L	CFR136A 625
Benzo(ghi)perylene	ND	10	ug/L	CFR136A 625
Benzo(k)fluoranthene	ND	10	ug/L	CFR136A 625
4-Bromophenyl phenyl ether	ND	10	ug/L	CFR136A 625
Butyl benzyl phthalate	ND	20	ug/L	CFR136A 625
bis(2-Chloroethoxy) methane	ND	10	ug/L	CFR136A 625
bis(2-Chloroethyl)-ether	ND	10	ug/L	CFR136A 625
bis(2-Chloroisopropyl) ether	ND	10	ug/L	CFR136A 625
4-Chloro-3-methylphenol	ND	20	ug/L	CFR136A 625
2-Chloronaphthalene	ND	10	ug/L	CFR136A 625
2-Chlorophenol	ND	10	ug/L	CFR136A 625
4-Chlorophenyl phenyl ether	ND	10	ug/L	CFR136A 625
Chrysene	ND	10	ug/L	CFR136A 625
Dibenz(a,h)anthracene	ND	10	ug/L	CFR136A 625
Di-n-butyl phthalate	ND	20	ug/L	CFR136A 625
1,2-Dichlorobenzene	ND	10	ug/L	CFR136A 625
1,3-Dichlorobenzene	ND	10	ug/L	CFR136A 625
1,4-Dichlorobenzene	ND	10	ug/L	CFR136A 625
3,3'-Dichlorobenzidine	ND	50	ug/L	CFR136A 625
2,4-Dichlorophenol	ND	10	ug/L	CFR136A 625
Diethyl phthalate	ND	20	ug/L	CFR136A 625
2,4-Dimethylphenol	ND	10	ug/L	CFR136A 625
Dimethyl phthalate	ND	20	ug/L	CFR136A 625
2-Methyl-4,6-dinitro-phenol	ND	60	ug/L	CFR136A 625
2,4-Dinitrophenol	ND	60	ug/L	CFR136A 625
2,4-Dinitrotoluene	ND	20	ug/L	CFR136A 625
2,6-Dinitrotoluene	ND	20	ug/L	CFR136A 625
Di-n-octyl phthalate	ND	20	ug/L	CFR136A 625
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	CFR136A 625

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCME21AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluoranthene	ND	20	ug/L	CFR136A 625
Fluorene	ND	10	ug/L	CFR136A 625
Hexachlorobenzene	ND	10	ug/L	CFR136A 625
Hexachlorobutadiene	ND	10	ug/L	CFR136A 625
Hexachloroethane	ND	10	ug/L	CFR136A 625
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	CFR136A 625
Isophorone	ND	10	ug/L	CFR136A 625
Naphthalene	ND	10	ug/L	CFR136A 625
Nitrobenzene	ND	20	ug/L	CFR136A 625
2-Nitrophenol	ND	20	ug/L	CFR136A 625
4-Nitrophenol	ND	50	ug/L	CFR136A 625
N-Nitrosodi-n-propyl-amine	ND	20	ug/L	CFR136A 625
Pentachlorophenol	ND	60	ug/L	CFR136A 625
Phenanthrene	ND	10	ug/L	CFR136A 625
Phenol	ND	10	ug/L	CFR136A 625
Pyrene	ND	10	ug/L	CFR136A 625
1,2,4-Trichloro-benzene	ND	10	ug/L	CFR136A 625
2,4,6-Trichloro-phenol	ND	20	ug/L	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	75	(53 - 120)
Phenol-d5	81	(57 - 120)
Nitrobenzene-d5	80	(59 - 120)
2-Fluorobiphenyl	74	(49 - 120)
2,4,6-Tribromophenol	87	(50 - 120)
Terphenyl-d14	89	(63 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD
Prep Date.....: 08/18/06 Analysis Date..: 08/22/06
Prep Batch #...: 6230120 Analysis Time..: 10:31
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	81	(58 - 120)			CFR136A 625
	78	(58 - 120)	4.4	(0-30)	CFR136A 625
Acenaphthylene	82	(58 - 120)			CFR136A 625
	80	(58 - 120)	2.9	(0-30)	CFR136A 625
Anthracene	87	(62 - 120)			CFR136A 625
	81	(62 - 120)	6.7	(0-30)	CFR136A 625
Benzo(a)anthracene	86	(60 - 120)			CFR136A 625
	80	(60 - 120)	7.6	(0-30)	CFR136A 625
Benzo(a)pyrene	88	(58 - 120)			CFR136A 625
	81	(58 - 120)	8.0	(0-73)	CFR136A 625
Benzo(b)fluoranthene	90	(55 - 120)			CFR136A 625
	78	(55 - 120)	14	(0-90)	CFR136A 625
Benzo(ghi)perylene	83	(52 - 120)			CFR136A 625
	77	(52 - 120)	6.9	(0-64)	CFR136A 625
Benzo(k)fluoranthene	90	(57 - 120)			CFR136A 625
	93	(57 - 120)	4.0	(0-50)	CFR136A 625
4-Bromophenyl phenyl ether	92	(61 - 120)			CFR136A 625
	86	(61 - 120)	6.1	(0-34)	CFR136A 625
Butyl benzyl phthalate	86	(60 - 120)			CFR136A 625
	81	(60 - 120)	6.2	(0-30)	CFR136A 625
bis(2-Chloroethoxy) methane	76	(56 - 120)			CFR136A 625
	79	(56 - 120)	4.4	(0-30)	CFR136A 625
bis(2-Chloroethyl)-ether	78	(55 - 120)			CFR136A 625
	82	(55 - 120)	4.7	(0-30)	CFR136A 625
bis(2-Chloroisopropyl) ether	78	(57 - 120)			CFR136A 625
	82	(57 - 120)	5.8	(0-30)	CFR136A 625
4-Chloro-3-methylphenol	84	(63 - 120)			CFR136A 625
	84	(63 - 120)	0.37	(0-30)	CFR136A 625
2-Chloronaphthalene	80	(60 - 118)			CFR136A 625
	76	(60 - 118)	4.9	(0-30)	CFR136A 625
2-Chlorophenol	76	(57 - 120)			CFR136A 625
	79	(57 - 120)	3.7	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorophenyl phenyl ether	89	(60 - 120)			CFR136A 625
	85	(60 - 120)	4.6	(0-30)	CFR136A 625
Chrysene	85	(60 - 120)			CFR136A 625
	79	(60 - 120)	6.8	(0-30)	CFR136A 625
Dibenz(a,h)anthracene	87	(58 - 120)			CFR136A 625
	81	(58 - 120)	7.2	(0-78)	CFR136A 625
Di-n-butyl phthalate	86	(62 - 118)			CFR136A 625
	81	(62 - 118)	6.8	(0-30)	CFR136A 625
1,2-Dichlorobenzene	74	(48 - 120)			CFR136A 625
	74	(48 - 120)	0.28	(0-42)	CFR136A 625
1,3-Dichlorobenzene	69	(45 - 120)			CFR136A 625
	69	(45 - 120)	1.1	(0-47)	CFR136A 625
1,4-Dichlorobenzene	70	(45 - 120)			CFR136A 625
	69	(45 - 120)	1.2	(0-49)	CFR136A 625
3,3'-Dichlorobenzidine	64	(34 - 120)			CFR136A 625
	58	(34 - 120)	10	(0-50)	CFR136A 625
2,4-Dichlorophenol	83	(60 - 120)			CFR136A 625
	85	(60 - 120)	2.8	(0-30)	CFR136A 625
Diethyl phthalate	88	(61 - 114)			CFR136A 625
	89	(61 - 114)	1.1	(0-30)	CFR136A 625
2,4-Dimethylphenol	61	(44 - 119)			CFR136A 625
	66	(44 - 119)	8.4	(0-35)	CFR136A 625
Dimethyl phthalate	88	(61 - 112)			CFR136A 625
	89	(61 - 112)	0.64	(0-30)	CFR136A 625
4,6-Dinitro-2-methylphenol	87	(41 - 120)			CFR136A 625
	82	(41 - 120)	5.1	(0-55)	CFR136A 625
2,4-Dinitrophenol	82	(36 - 121)			CFR136A 625
	84	(36 - 121)	3.1	(0-61)	CFR136A 625
2,4-Dinitrotoluene	95	(60 - 120)			CFR136A 625
	92	(60 - 120)	3.5	(0-35)	CFR136A 625
2,6-Dinitrotoluene	84	(61 - 120)			CFR136A 625
	84	(61 - 120)	0.080	(0-30)	CFR136A 625
Di-n-octyl phthalate	80	(59 - 120)			CFR136A 625
	75	(59 - 120)	7.4	(0-30)	CFR136A 625
bis(2-Ethylhexyl) phthalate	79	(58 - 120)			CFR136A 625
	75	(58 - 120)	5.5	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Fluoranthene	94	(59 - 120)			CFR136A 625
	88	(59 - 120)	6.2	(0-30)	CFR136A 625
Fluorene	87	(60 - 120)			CFR136A 625
	83	(60 - 120)	5.0	(0-30)	CFR136A 625
Hexachlorobenzene	91	(62 - 120)			CFR136A 625
	87	(62 - 120)	4.8	(0-30)	CFR136A 625
Hexachlorobutadiene	79	(49 - 116)			CFR136A 625
	75	(49 - 116)	5.7	(0-41)	CFR136A 625
Hexachloroethane	68	(43 - 113)			CFR136A 625
	65	(43 - 113)	4.3	(0-52)	CFR136A 625
Indeno(1,2,3-cd)pyrene	87	(56 - 120)			CFR136A 625
	81	(56 - 120)	6.6	(0-73)	CFR136A 625
Isophorone	83	(54 - 120)			CFR136A 625
	87	(54 - 120)	4.1	(0-30)	CFR136A 625
Naphthalene	75	(52 - 120)			CFR136A 625
	74	(52 - 120)	1.2	(0-30)	CFR136A 625
Nitrobenzene	76	(58 - 120)			CFR136A 625
	80	(58 - 120)	4.8	(0-30)	CFR136A 625
2-Nitrophenol	79	(59 - 120)			CFR136A 625
	81	(59 - 120)	2.4	(0-30)	CFR136A 625
4-Nitrophenol	88	(53 - 120)			CFR136A 625
	87	(53 - 120)	1.6	(0-42)	CFR136A 625
N-Nitrosodi-n-propyl-amine	75	(58 - 120)			CFR136A 625
	80	(58 - 120)	7.4	(0-30)	CFR136A 625
Pentachlorophenol	101	(49 - 120)			CFR136A 625
	95	(49 - 120)	5.4	(0-30)	CFR136A 625
Phenanthrene	88	(63 - 120)			CFR136A 625
	83	(63 - 120)	5.5	(0-30)	CFR136A 625
Phenol	75	(58 - 112)			CFR136A 625
	77	(58 - 112)	2.9	(0-30)	CFR136A 625
Pyrene	84	(60 - 115)			CFR136A 625
	81	(60 - 115)	4.0	(0-30)	CFR136A 625
1,2,4-Trichloro-benzene	78	(50 - 120)			CFR136A 625
	75	(50 - 120)	3.6	(0-35)	CFR136A 625
2,4,6-Trichloro-phenol	88	(60 - 120)			CFR136A 625
	89	(60 - 120)	0.91	(0-30)	CFR136A 625

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCME21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzidine	**0.0 a**	**(10 - 218)**			**CFR136A 625**
	0.0 a	**(10 - 218)**	**0.0**	**(0-50)**	**CFR136A 625**
Hexachlorocyclopenta-diene	**34**	**(10 - 120)**			**CFR136A 625**
	35	**(10 - 120)**	**2.7**	**(0-82)**	**CFR136A 625**
N-Nitrosodimethylamine	**69**	**(52 - 120)**			**CFR136A 625**
	75	**(52 - 120)**	**7.2**	**(0-30)**	**CFR136A 625**
N-Nitrosodiphenylamine	**72**	**(10 - 203)**			**CFR136A 625**
	69	**(10 - 203)**	**3.7**	**(0-50)**	**CFR136A 625**
4-Methylphenol	**76**	**(58 - 120)**			**CFR136A 625**
	81	**(58 - 120)**	**6.0**	**(0-39)**	**CFR136A 625**
2-Methylphenol	**73**	**(56 - 120)**			**CFR136A 625**
	78	**(56 - 120)**	**6.8**	**(0-35)**	**CFR136A 625**
n-Decane	**68**	**(28 - 120)**			**CFR136A 625**
	64	**(28 - 120)**	**6.0**	**(0-61)**	**CFR136A 625**
2-Methylnaphthalene	**84**	**(57 - 120)**			**CFR136A 625**
	84	**(57 - 120)**	**0.86**	**(0-30)**	**CFR136A 625**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(53 - 120)
	75	(53 - 120)
Phenol-d5	76	(57 - 120)
	79	(57 - 120)
Nitrobenzene-d5	74	(59 - 120)
	80	(59 - 120)
2-Fluorobiphenyl	81	(49 - 120)
	81	(49 - 120)
2,4,6-Tribromophenol	94	(50 - 120)
	93	(50 - 120)
Terphenyl-d14	86	(63 - 120)
	84	(63 - 120)

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 Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD
Prep Date.....: 08/18/06 Analysis Date..: 08/22/06
Prep Batch #...: 6230120 Analysis Time..: 10:31
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	81.4	ug/L	81		CFR136A 625
	100	77.9	ug/L	78	4.4	CFR136A 625
Acenaphthylene	100	82.2	ug/L	82		CFR136A 625
	100	79.9	ug/L	80	2.9	CFR136A 625
Anthracene	100	86.6	ug/L	87		CFR136A 625
	100	81.0	ug/L	81	6.7	CFR136A 625
Benzo(a)anthracene	100	86.4	ug/L	86		CFR136A 625
	100	80.1	ug/L	80	7.6	CFR136A 625
Benzo(a)pyrene	100	87.5	ug/L	88		CFR136A 625
	100	80.8	ug/L	81	8.0	CFR136A 625
Benzo(b)fluoranthene	100	89.7	ug/L	90		CFR136A 625
	100	78.0	ug/L	78	14	CFR136A 625
Benzo(ghi)perylene	100	83.0	ug/L	83		CFR136A 625
	100	77.5	ug/L	77	6.9	CFR136A 625
Benzo(k)fluoranthene	100	89.7	ug/L	90		CFR136A 625
	100	93.4	ug/L	93	4.0	CFR136A 625
4-Bromophenyl phenyl ether	100	91.5	ug/L	92		CFR136A 625
	100	86.1	ug/L	86	6.1	CFR136A 625
Butyl benzyl phthalate	100	85.7	ug/L	86		CFR136A 625
	100	80.6	ug/L	81	6.2	CFR136A 625
bis(2-Chloroethoxy) methane	100	76.0	ug/L	76		CFR136A 625
	100	79.4	ug/L	79	4.4	CFR136A 625
bis(2-Chloroethyl)-ether	100	78.0	ug/L	78		CFR136A 625
	100	81.7	ug/L	82	4.7	CFR136A 625
bis(2-Chloroisopropyl) ether	100	77.6	ug/L	78		CFR136A 625
	100	82.3	ug/L	82	5.8	CFR136A 625
4-Chloro-3-methylphenol	100	84.1	ug/L	84		CFR136A 625
	100	84.4	ug/L	84	0.37	CFR136A 625
2-Chloronaphthalene	100	79.8	ug/L	80		CFR136A 625
	100	76.0	ug/L	76	4.9	CFR136A 625
2-Chlorophenol	100	76.4	ug/L	76		CFR136A 625
	100	79.3	ug/L	79	3.7	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Chlorophenyl phenyl ether	100	89.4	ug/L	89		CFR136A 625
	100	85.4	ug/L	85	4.6	CFR136A 625
Chrysene	100	84.6	ug/L	85		CFR136A 625
	100	79.0	ug/L	79	6.8	CFR136A 625
Dibenz(a,h)anthracene	100	87.0	ug/L	87		CFR136A 625
	100	81.0	ug/L	81	7.2	CFR136A 625
Di-n-butyl phthalate	100	86.3	ug/L	86		CFR136A 625
	100	80.7	ug/L	81	6.8	CFR136A 625
1,2-Dichlorobenzene	100	73.5	ug/L	74		CFR136A 625
	100	73.7	ug/L	74	0.28	CFR136A 625
1,3-Dichlorobenzene	100	69.3	ug/L	69		CFR136A 625
	100	68.5	ug/L	69	1.1	CFR136A 625
1,4-Dichlorobenzene	100	70.1	ug/L	70		CFR136A 625
	100	69.3	ug/L	69	1.2	CFR136A 625
3,3'-Dichlorobenzidine	100	63.9	ug/L	64		CFR136A 625
	100	57.8	ug/L	58	10	CFR136A 625
2,4-Dichlorophenol	100	82.6	ug/L	83		CFR136A 625
	100	85.0	ug/L	85	2.8	CFR136A 625
Diethyl phthalate	100	88.3	ug/L	88		CFR136A 625
	100	89.3	ug/L	89	1.1	CFR136A 625
2,4-Dimethylphenol	100	60.7	ug/L	61		CFR136A 625
	100	66.1	ug/L	66	8.4	CFR136A 625
Dimethyl phthalate	100	88.2	ug/L	88		CFR136A 625
	100	88.8	ug/L	89	0.64	CFR136A 625
4,6-Dinitro-2-methylphenol	100	86.6	ug/L	87		CFR136A 625
	100	82.3	ug/L	82	5.1	CFR136A 625
2,4-Dinitrophenol	100	81.8	ug/L	82		CFR136A 625
	100	84.4	ug/L	84	3.1	CFR136A 625
2,4-Dinitrotoluene	100	94.8	ug/L	95		CFR136A 625
	100	91.5	ug/L	92	3.5	CFR136A 625
2,6-Dinitrotoluene	100	83.7	ug/L	84		CFR136A 625
	100	83.7	ug/L	84	0.080	CFR136A 625
Di-n-octyl phthalate	100	80.3	ug/L	80		CFR136A 625
	100	74.6	ug/L	75	7.4	CFR136A 625
bis(2-Ethylhexyl) phthalate	100	79.2	ug/L	79		CFR136A 625
	100	74.9	ug/L	75	5.5	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Fluoranthene	100	93.7	ug/L	94		CFR136A 625
	100	88.0	ug/L	88	6.2	CFR136A 625
Fluorene	100	87.1	ug/L	87		CFR136A 625
	100	82.8	ug/L	83	5.0	CFR136A 625
Hexachlorobenzene	100	90.9	ug/L	91		CFR136A 625
	100	86.6	ug/L	87	4.8	CFR136A 625
Hexachlorobutadiene	100	79.2	ug/L	79		CFR136A 625
	100	74.8	ug/L	75	5.7	CFR136A 625
Hexachloroethane	100	68.1	ug/L	68		CFR136A 625
	100	65.2	ug/L	65	4.3	CFR136A 625
Indeno(1,2,3-cd)pyrene	100	86.6	ug/L	87		CFR136A 625
	100	81.0	ug/L	81	6.6	CFR136A 625
Isophorone	100	83.3	ug/L	83		CFR136A 625
	100	86.8	ug/L	87	4.1	CFR136A 625
Naphthalene	100	74.6	ug/L	75		CFR136A 625
	100	73.7	ug/L	74	1.2	CFR136A 625
Nitrobenzene	100	75.8	ug/L	76		CFR136A 625
	100	79.5	ug/L	80	4.8	CFR136A 625
2-Nitrophenol	100	79.2	ug/L	79		CFR136A 625
	100	81.1	ug/L	81	2.4	CFR136A 625
4-Nitrophenol	100	88.4	ug/L	88		CFR136A 625
	100	87.0	ug/L	87	1.6	CFR136A 625
N-Nitrosodi-n-propyl-amine	100	74.6	ug/L	75		CFR136A 625
	100	80.4	ug/L	80	7.4	CFR136A 625
Pentachlorophenol	100	101	ug/L	101		CFR136A 625
	100	95.3	ug/L	95	5.4	CFR136A 625
Phenanthrene	100	87.5	ug/L	88		CFR136A 625
	100	82.8	ug/L	83	5.5	CFR136A 625
Phenol	100	75.1	ug/L	75		CFR136A 625
	100	77.4	ug/L	77	2.9	CFR136A 625
Pyrene	100	84.4	ug/L	84		CFR136A 625
	100	81.1	ug/L	81	4.0	CFR136A 625
1,2,4-Trichloro-benzene	100	77.8	ug/L	78		CFR136A 625
	100	75.0	ug/L	75	3.6	CFR136A 625
2,4,6-Trichloro-phenol	100	87.8	ug/L	88		CFR136A 625
	100	88.6	ug/L	89	0.91	CFR136A 625

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-120 JCME21AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzidine	100	0.0 a	ug/L	0.0		CFR136A 625
	100	0.0 a	ug/L	0.0	0.0	CFR136A 625
Hexachlorocyclopenta-diene	100	33.9	ug/L	34		CFR136A 625
	100	34.8	ug/L	35	2.7	CFR136A 625
N-Nitrosodimethylamine	100	69.4	ug/L	69		CFR136A 625
	100	74.6	ug/L	75	7.2	CFR136A 625
N-Nitrosodiphenylamine	100	72.1	ug/L	72		CFR136A 625
	100	69.5	ug/L	69	3.7	CFR136A 625
4-Methylphenol	100	76.1	ug/L	76		CFR136A 625
	100	80.9	ug/L	81	6.0	CFR136A 625
2-Methylphenol	100	73.1	ug/L	73		CFR136A 625
	100	78.3	ug/L	78	6.8	CFR136A 625
n-Decane	100	68.0	ug/L	68		CFR136A 625
	100	64.1	ug/L	64	6.0	CFR136A 625
2-Methylnaphthalene	100	84.3	ug/L	84		CFR136A 625
	100	83.6	ug/L	84	0.86	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(53 - 120)
Phenol-d5	75	(53 - 120)
Nitrobenzene-d5	76	(57 - 120)
2-Fluorobiphenyl	79	(57 - 120)
2,4,6-Tribromophenol	74	(59 - 120)
Terphenyl-d14	80	(59 - 120)
	81	(49 - 120)
	81	(49 - 120)
	94	(50 - 120)
	93	(50 - 120)
	86	(63 - 120)
	84	(63 - 120)

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.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC0FX1AA **Matrix.....:** SOLID
MB Lot-Sample #: D6H230000-186

Prep Date.....: 08/23/06 **Analysis Time..:** 11:42
Analysis Date..: 08/25/06 **Prep Batch #...:** 6235186
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	660	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	660	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC0FX1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(34 - 120)
Phenol-d5	72	(37 - 120)
Nitrobenzene-d5	66	(36 - 120)
2-Fluorobiphenyl	69	(36 - 120)
2,4,6-Tribromophenol	69	(30 - 120)
Terphenyl-d14	95	(28 - 120)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JC0FX1AC Matrix.....: SOLID
LCS Lot-Sample#: D6H230000-186
Prep Date.....: 08/23/06 Analysis Date..: 08/25/06
Prep Batch #...: 6235186 Analysis Time..: 10:32
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	75	(43 - 120)	SW846 8270C
1,2,4-Trichloro-benzene	76	(46 - 120)	SW846 8270C
Acenaphthene	81	(46 - 120)	SW846 8270C
4-Chloro-3-methylphenol	86	(50 - 120)	SW846 8270C
2-Chlorophenol	82	(49 - 120)	SW846 8270C
2,4-Dinitrotoluene	83	(48 - 120)	SW846 8270C
4-Nitrophenol	70	(41 - 120)	SW846 8270C
N-Nitrosodi-n-propyl-amine	69	(45 - 120)	SW846 8270C
Pentachlorophenol	84	(33 - 120)	SW846 8270C
Phenol	89	(48 - 120)	SW846 8270C
Pyrene	97	(45 - 120)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(49 - 120)
Phenol-d5	90	(49 - 120)
Nitrobenzene-d5	81	(47 - 120)
2-Fluorobiphenyl	84	(44 - 120)
2,4,6-Tribromophenol	81	(44 - 120)
Terphenyl-d14	102	(50 - 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 Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JC0FX1AC Matrix.....: SOLID
LCS Lot-Sample#: D6H230000-186
Prep Date.....: 08/23/06 Analysis Date..: 08/25/06
Prep Batch #...: 6235186 Analysis Time..: 10:32
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,4-Dichlorobenzene	**3360**	**2520**	**ug/kg**	**75**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3360**	**2540**	**ug/kg**	**76**	**SW846 8270C**
Acenaphthene	**3360**	**2730**	**ug/kg**	**81**	**SW846 8270C**
4-Chloro-3-methylphenol	**5030**	**4330**	**ug/kg**	**86**	**SW846 8270C**
2-Chlorophenol	**5030**	**4140**	**ug/kg**	**82**	**SW846 8270C**
2,4-Dinitrotoluene	**3360**	**2780**	**ug/kg**	**83**	**SW846 8270C**
4-Nitrophenol	**5030**	**3520**	**ug/kg**	**70**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**3360**	**2310**	**ug/kg**	**69**	**SW846 8270C**
Pentachlorophenol	**5030**	**4240**	**ug/kg**	**84**	**SW846 8270C**
Phenol	**5030**	**4460**	**ug/kg**	**89**	**SW846 8270C**
Pyrene	**3360**	**3260**	**ug/kg**	**97**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	90	(49 - 120)
Phenol-d5	90	(49 - 120)
Nitrobenzene-d5	81	(47 - 120)
2-Fluorobiphenyl	84	(44 - 120)
2,4,6-Tribromophenol	81	(44 - 120)
Terphenyl-d14	102	(50 - 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 Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCLL71AD-MS Matrix.....: SOLID
MS Lot-Sample #: D6H170353-009 JCLL71AE-MSD
Date Sampled...: 08/15/06 09:00 Date Received..: 08/17/06
Prep Date.....: 08/23/06 Analysis Date..: 08/25/06
Prep Batch #...: 6235186 Analysis Time..: 16:51
Dilution Factor: 200

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,4-Dichlorobenzene	NC,DIL	(30 - 120)			SW846 8270C
	NC,DIL	(30 - 120)		(0-68)	SW846 8270C
1,2,4-Trichloro-benzene	NC,DIL	(35 - 120)			SW846 8270C
	NC,DIL	(35 - 120)		(0-62)	SW846 8270C
Acenaphthene	NC,DIL	(36 - 120)			SW846 8270C
	NC,DIL	(36 - 120)		(0-50)	SW846 8270C
4-Chloro-3-methylphenol	NC,DIL	(36 - 120)			SW846 8270C
	NC,DIL	(36 - 120)		(0-50)	SW846 8270C
2-Chlorophenol	NC,DIL	(32 - 120)			SW846 8270C
	NC,DIL	(32 - 120)		(0-62)	SW846 8270C
2,4-Dinitrotoluene	NC,DIL	(33 - 120)			SW846 8270C
	NC,DIL	(33 - 120)		(0-49)	SW846 8270C
4-Nitrophenol	NC,DIL	(23 - 120)			SW846 8270C
	NC,DIL	(23 - 120)		(0-54)	SW846 8270C
N-Nitrosodi-n-propyl-amine	NC,DIL	(34 - 120)			SW846 8270C
	NC,DIL	(34 - 120)		(0-57)	SW846 8270C
Pentachlorophenol	NC,DIL	(19 - 120)			SW846 8270C
	NC,DIL	(19 - 120)		(0-60)	SW846 8270C
Phenol	NC,DIL	(36 - 120)			SW846 8270C
	NC,DIL	(36 - 120)		(0-54)	SW846 8270C
Pyrene	NC,DIL	(16 - 127)			SW846 8270C
	NC,DIL	(16 - 127)		(0-48)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(34 - 120)
	NC,DIL	(34 - 120)
Phenol-d5	NC,DIL	(37 - 120)
	NC,DIL	(37 - 120)
Nitrobenzene-d5	NC,DIL	(36 - 120)
	NC,DIL	(36 - 120)
2-Fluorobiphenyl	NC,DIL	(36 - 120)
	NC,DIL	(36 - 120)
2,4,6-Tribromophenol	NC,DIL	(30 - 120)
	NC,DIL	(30 - 120)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCLL71AD-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6H170353-009 JCLL71AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	NC,DIL	(28 - 120)
	NC,DIL	(28 - 120)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCLL71AD-MS Matrix.....: SOLID
MS Lot-Sample #: D6H170353-009 JCLL71AE-MSD
Date Sampled...: 08/15/06 09:00 Date Received..: 08/17/06
Prep Date.....: 08/23/06 Analysis Date..: 08/25/06
Prep Batch #...: 6235186 Analysis Time..: 16:51
Dilution Factor: 200

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,4-Dichlorobenzene	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C
1,2,4-Trichloro-benzene	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C
Acenaphthene	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C
4-Chloro-3-methylphenol	ND	16100		ug/kg	NC,DIL		SW846 8270C
	ND	16200		ug/kg	NC,DIL		SW846 8270C
2-Chlorophenol	ND	16100		ug/kg	NC,DIL		SW846 8270C
	ND	16200		ug/kg	NC,DIL		SW846 8270C
2,4-Dinitrotoluene	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C
4-Nitrophenol	ND	16100		ug/kg	NC,DIL		SW846 8270C
	ND	16200		ug/kg	NC,DIL		SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C
Pentachlorophenol	ND	16100		ug/kg	NC,DIL		SW846 8270C
	ND	16200		ug/kg	NC,DIL		SW846 8270C
Phenol	ND	16100		ug/kg	NC,DIL		SW846 8270C
	ND	16200		ug/kg	NC,DIL		SW846 8270C
Pyrene	ND	10800		ug/kg	NC,DIL		SW846 8270C
	ND	10800		ug/kg	NC,DIL		SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	NC,DIL	(34 - 120)
	NC,DIL	(34 - 120)
Phenol-d5	NC,DIL	(37 - 120)
	NC,DIL	(37 - 120)
Nitrobenzene-d5	NC,DIL	(36 - 120)
	NC,DIL	(36 - 120)
2-Fluorobiphenyl	NC,DIL	(36 - 120)
	NC,DIL	(36 - 120)
2,4,6-Tribromophenol	NC,DIL	(30 - 120)
	NC,DIL	(30 - 120)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCLL71AD-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6H170353-009 JCLL71AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	NC,DIL	(28 - 120)
	NC,DIL	(28 - 120)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCMGA1AA **Matrix.....:** WATER
MB Lot-Sample #: D6H180000-166

Prep Date.....: 08/21/06 **Analysis Time..:** 23:54
Analysis Date..: 08/24/06 **Prep Batch #...:** 6230166
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	CFR136A 608
alpha-BHC	ND	0.050	ug/L	CFR136A 608
beta-BHC	ND	0.050	ug/L	CFR136A 608
gamma-BHC (Lindane)	ND	0.050	ug/L	CFR136A 608
Chlordane (technical)	ND	0.50	ug/L	CFR136A 608
4,4'-DDD	ND	0.10	ug/L	CFR136A 608
4,4'-DDE	ND	0.10	ug/L	CFR136A 608
4,4'-DDT	ND	0.10	ug/L	CFR136A 608
Dieldrin	ND	0.10	ug/L	CFR136A 608
Endosulfan I	ND	0.050	ug/L	CFR136A 608
Endosulfan II	ND	0.10	ug/L	CFR136A 608
Endosulfan sulfate	ND	0.10	ug/L	CFR136A 608
Endrin	ND	0.10	ug/L	CFR136A 608
Endrin aldehyde	ND	0.10	ug/L	CFR136A 608
Heptachlor	ND	0.050	ug/L	CFR136A 608
Heptachlor epoxide	ND	0.050	ug/L	CFR136A 608
delta-BHC	ND	0.050	ug/L	CFR136A 608
alpha-Chlordane	ND	0.050	ug/L	CFR136A 608
gamma-Chlordane	ND	0.050	ug/L	CFR136A 608
Mirex	ND	0.050	ug/L	CFR136A 608
Endrin ketone	ND	0.10	ug/L	CFR136A 608
Methoxychlor	ND	0.50	ug/L	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	87	(48 - 127)
Tetrachloro-m-xylene	87	(40 - 107)

NOTE(S):

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

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCMGA1AE **Matrix.....:** WATER
MB Lot-Sample #: D6H180000-166

Prep Date.....: 08/21/06 **Analysis Time..:** 04:23
Analysis Date..: 08/26/06 **Prep Batch #...:** 6230166
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	CFR136A 608
Aroclor 1221	ND	2.0	ug/L	CFR136A 608
Aroclor 1232	ND	1.0	ug/L	CFR136A 608
Aroclor 1242	ND	1.0	ug/L	CFR136A 608
Aroclor 1248	ND	1.0	ug/L	CFR136A 608
Aroclor 1254	ND	1.0	ug/L	CFR136A 608
Aroclor 1260	ND	1.0	ug/L	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	109	(48 - 127)
Tetrachloro-m-xylene	87	(40 - 107)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCMGA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-166 JCMGA1AD-LCSD
Prep Date.....: 08/21/06 Analysis Date..: 08/24/06
Prep Batch #...: 6230166 Analysis Time..: 21:40
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Heptachlor epoxide	94	(65 - 113)			CFR136A 608
	86	(65 - 113)	8.5	(0-27)	CFR136A 608
Heptachlor	98	(47 - 113)			CFR136A 608
	97	(47 - 113)	1.0	(0-58)	CFR136A 608
4,4'-DDD	101	(64 - 117)			CFR136A 608
	97	(64 - 117)	4.7	(0-26)	CFR136A 608
4,4'-DDE	104	(69 - 113)			CFR136A 608
	102	(69 - 113)	2.0	(0-28)	CFR136A 608
4,4'-DDT	108	(63 - 133)			CFR136A 608
	103	(63 - 133)	3.9	(0-28)	CFR136A 608
Aldrin	96	(35 - 112)			CFR136A 608
	96	(35 - 112)	0.16	(0-69)	CFR136A 608
alpha-BHC	93	(56 - 111)			CFR136A 608
	91	(56 - 111)	2.8	(0-67)	CFR136A 608
beta-BHC	99	(63 - 112)			CFR136A 608
	98	(63 - 112)	1.3	(0-32)	CFR136A 608
delta-BHC	78	(59 - 99)			CFR136A 608
	74	(59 - 99)	5.3	(0-28)	CFR136A 608
Dieldrin	105	(66 - 113)			CFR136A 608
	101	(66 - 113)	3.4	(0-25)	CFR136A 608
Endosulfan I	101	(45 - 127)			CFR136A 608
	98	(45 - 127)	2.7	(0-25)	CFR136A 608
Endosulfan II	106	(60 - 125)			CFR136A 608
	102	(60 - 125)	3.6	(0-26)	CFR136A 608
Endosulfan sulfate	98	(71 - 109)			CFR136A 608
	89	(71 - 109)	9.4	(0-24)	CFR136A 608
Endrin aldehyde	91	(62 - 110)			CFR136A 608
	90	(62 - 110)	0.75	(0-26)	CFR136A 608
Endrin	111	(65 - 118)			CFR136A 608
	106	(65 - 118)	4.6	(0-26)	CFR136A 608
gamma-BHC (Lindane)	105	(61 - 114)			CFR136A 608
	100	(61 - 114)	4.5	(0-49)	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	81	(48 - 127)
	93	(48 - 127)
Tetrachloro-m-xylene	94	(40 - 107)
	95	(40 - 107)

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 Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCMGA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-166 JCMGA1AD-LCSD
Prep Date.....: 08/21/06 Analysis Date..: 08/24/06
Prep Batch #...: 6230166 Analysis Time..: 21:40
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Heptachlor epoxide	0.500	0.468	ug/L	94		CFR136A 608
	0.500	0.430	ug/L	86	8.5	CFR136A 608
Heptachlor	0.500	0.489	ug/L	98		CFR136A 608
	0.500	0.484	ug/L	97	1.0	CFR136A 608
4,4'-DDD	0.500	0.507	ug/L	101		CFR136A 608
	0.500	0.484	ug/L	97	4.7	CFR136A 608
4,4'-DDE	0.500	0.520	ug/L	104		CFR136A 608
	0.500	0.509	ug/L	102	2.0	CFR136A 608
4,4'-DDT	0.500	0.538	ug/L	108		CFR136A 608
	0.500	0.517	ug/L	103	3.9	CFR136A 608
Aldrin	0.500	0.482	ug/L	96		CFR136A 608
	0.500	0.481	ug/L	96	0.16	CFR136A 608
alpha-BHC	0.500	0.467	ug/L	93		CFR136A 608
	0.500	0.454	ug/L	91	2.8	CFR136A 608
beta-BHC	0.500	0.495	ug/L	99		CFR136A 608
	0.500	0.488	ug/L	98	1.3	CFR136A 608
delta-BHC	0.500	0.392	ug/L	78		CFR136A 608
	0.500	0.372	ug/L	74	5.3	CFR136A 608
Dieldrin	0.500	0.523	ug/L	105		CFR136A 608
	0.500	0.505	ug/L	101	3.4	CFR136A 608
Endosulfan I	0.500	0.503	ug/L	101		CFR136A 608
	0.500	0.489	ug/L	98	2.7	CFR136A 608
Endosulfan II	0.500	0.528	ug/L	106		CFR136A 608
	0.500	0.509	ug/L	102	3.6	CFR136A 608
Endosulfan sulfate	0.500	0.491	ug/L	98		CFR136A 608
	0.500	0.447	ug/L	89	9.4	CFR136A 608
Endrin aldehyde	0.500	0.454	ug/L	91		CFR136A 608
	0.500	0.451	ug/L	90	0.75	CFR136A 608
Endrin	0.500	0.557	ug/L	111		CFR136A 608
	0.500	0.532	ug/L	106	4.6	CFR136A 608
gamma-BHC (Lindane)	0.500	0.524	ug/L	105		CFR136A 608
	0.500	0.500	ug/L	100	4.5	CFR136A 608

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	81	(48 - 127)
	93	(48 - 127)
Tetrachloro-m-xylene	94	(40 - 107)
	95	(40 - 107)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCMFK1AA **Matrix.....:** WATER
MB Lot-Sample #: D6H180000-152

Prep Date.....: 08/18/06 **Analysis Time..:** 03:34
Analysis Date..: 08/31/06 **Prep Batch #...:** 6230152
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Malathion	ND	1.2	ug/L	MCAWW 614
Azinphos-methyl	ND	2.5	ug/L	MCAWW 614
Demeton (total)	ND	1.0	ug/L	MCAWW 614
Methyl parathion	ND	4.0	ug/L	MCAWW 614
Ethyl parathion	ND	1.0	ug/L	MCAWW 614

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	151	(49 - 171)
Triphenyl phosphate	123	(60 - 154)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6H170353
Work Order #...: JCMFK1AC-LCS JCMFK1AD-LCSD
Matrix.....: WATER
LCS Lot-Sample#: D6H180000-152
Prep Date.....: 08/18/06
Analysis Date..: 08/30/06
Prep Batch #...: 6230152
Analysis Time..: 21:44
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Malathion	111	(53 - 137)			**MCAWW 614**
	113	(53 - 137)	2.0	(0-40)	**MCAWW 614**
Ethyl parathion	117	(47 - 142)			**MCAWW 614**
	122	(47 - 142)	4.7	(0-40)	**MCAWW 614**
Methyl parathion	117	(55 - 131)			**MCAWW 614**
	121	(55 - 131)	3.7	(0-40)	**MCAWW 614**
Demeton (total)	114	(33 - 141)			**MCAWW 614**
	116	(33 - 141)	1.2	(0-40)	**MCAWW 614**
Diazinon	80	(47 - 149)			**MCAWW 614**
	131 p	(47 - 149)	48	(0-40)	**MCAWW 614**
Phorate	134	(46 - 142)			**MCAWW 614**
	146 a	(46 - 142)	9.0	(0-40)	**MCAWW 614**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	131	(49 - 171)
	150	(49 - 171)
Triphenyl phosphate	131	(60 - 154)
	131	(60 - 154)

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.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCMFK1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D6H180000-152 JCMFK1AD-LCSD
Prep Date.....: 08/18/06 Analysis Date..: 08/30/06
Prep Batch #...: 6230152 Analysis Time..: 21:44
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Malathion	**4.00**	**4.44**	**ug/L**	**111**		**MCAWW 614**
	4.00	**4.53**	**ug/L**	**113**	**2.0**	**MCAWW 614**
Ethyl parathion	**4.00**	**4.67**	**ug/L**	**117**		**MCAWW 614**
	4.00	**4.90**	**ug/L**	**122**	**4.7**	**MCAWW 614**
Methyl parathion	**4.00**	**4.68**	**ug/L**	**117**		**MCAWW 614**
	4.00	**4.86**	**ug/L**	**121**	**3.7**	**MCAWW 614**
Demeton (total)	**4.00**	**4.58**	**ug/L**	**114**		**MCAWW 614**
	4.00	**4.63**	**ug/L**	**116**	**1.2**	**MCAWW 614**
Diazinon	**4.00**	**3.18**	**ug/L**	**80**		**MCAWW 614**
	4.00	**5.22 p**	**ug/L**	**131**	**48**	**MCAWW 614**
Phorate	**8.00**	**10.7**	**ug/L**	**134**		**MCAWW 614**
	8.00	**11.7 a**	**ug/L**	**146**	**9.0**	**MCAWW 614**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	131	(49 - 171)
	150	(49 - 171)
Triphenyl phosphate	131	(60 - 154)
	131	(60 - 154)

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.

a Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC1N41AA **Matrix.....:** SOLID
MB Lot-Sample #: D6H230000-437

Prep Date.....: 08/23/06 **Analysis Time..:** 17:02
Analysis Date..: 09/15/06 **Prep Batch #...:** 6235437
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Mirex	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Chlordane (technical)	ND	25	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	82	(49 - 130)
Tetrachloro-m-xylene	92	(46 - 127)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JC1N41AC Matrix.....: SOLID
LCS Lot-Sample#: D6H230000-437
Prep Date.....: 08/23/06 Analysis Date..: 09/15/06
Prep Batch #...: 6235437 Analysis Time..: 15:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aldrin	**90**	**(60 - 118)**	**SW846 8081A**
gamma-BHC (Lindane)	**85**	**(60 - 117)**	**SW846 8081A**
4,4'-DDT	**85**	**(44 - 150)**	**SW846 8081A**
Dieldrin	**92**	**(67 - 119)**	**SW846 8081A**
Endrin	**94**	**(63 - 122)**	**SW846 8081A**
Heptachlor	**88**	**(46 - 137)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(55 - 130)
Tetrachloro-m-xylene	92	(64 - 118)

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 Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JC1N41AC Matrix.....: SOLID
LCS Lot-Sample#: D6H230000-437
Prep Date.....: 08/23/06 Analysis Date..: 09/15/06
Prep Batch #...: 6235437 Analysis Time..: 15:38
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**16.0**	**14.3**	**ug/kg**	**90**	**SW846 8081A**
gamma-BHC (Lindane)	**16.0**	**13.5**	**ug/kg**	**85**	**SW846 8081A**
4,4'-DDT	**16.0**	**13.6**	**ug/kg**	**85**	**SW846 8081A**
Dieldrin	**16.0**	**14.6**	**ug/kg**	**92**	**SW846 8081A**
Endrin	**16.0**	**15.1**	**ug/kg**	**94**	**SW846 8081A**
Heptachlor	**16.0**	**14.1**	**ug/kg**	**88**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(55 - 130)
Tetrachloro-m-xylene	92	(64 - 118)

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 Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCLL21AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6H170353-008 JCLL21AG-MSD
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/23/06 **Analysis Date..:** 09/15/06
Prep Batch #...: 6235437 **Analysis Time..:** 16:12
Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	**NC,DIL**	**(47 - 119)**			**SW846 8081A**
	NC,DIL	**(47 - 119)**		**(0-38)**	**SW846 8081A**
gamma-BHC (Lindane)	**NC,DIL**	**(20 - 151)**			**SW846 8081A**
	NC,DIL	**(20 - 151)**		**(0-37)**	**SW846 8081A**
4,4'-DDT	**NC,DIL**	**(20 - 181)**			**SW846 8081A**
	NC,DIL	**(20 - 181)**		**(0-54)**	**SW846 8081A**
Dieldrin	**NC,DIL**	**(25 - 145)**			**SW846 8081A**
	NC,DIL	**(25 - 145)**		**(0-34)**	**SW846 8081A**
Endrin	**NC,DIL**	**(49 - 138)**			**SW846 8081A**
	NC,DIL	**(49 - 138)**		**(0-35)**	**SW846 8081A**
Heptachlor	**NC,DIL**	**(36 - 139)**			**SW846 8081A**
	NC,DIL	**(36 - 139)**		**(0-40)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(49 - 130)
	NC,DIL	(49 - 130)
Tetrachloro-m-xylene	NC,DIL	(46 - 127)
	NC,DIL	(46 - 127)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCLL21AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: D6H170353-008 JCLL21AG-MSD
Date Sampled...: 08/15/06 09:00 **Date Received..:** 08/17/06
Prep Date.....: 08/23/06 **Analysis Date..:** 09/15/06
Prep Batch #...: 6235437 **Analysis Time..:** 16:12
Dilution Factor: 10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aldrin	**ND**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	ND	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**
gamma-BHC (Lindane)	**ND**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	ND	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**
4,4'-DDT	**ND**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	ND	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**
Dieldrin	**ND**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	ND	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**
Endrin	**ND**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	ND	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**
Heptachlor	**640**	53.2		**ug/kg**	**NC,DIL**		**SW846 8081A**
	640	53.6		**ug/kg**	**NC,DIL**		**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	NC,DIL	(49 - 130)
	NC,DIL	(49 - 130)
Tetrachloro-m-xylene	NC,DIL	(46 - 127)
	NC,DIL	(46 - 127)

NOTE(S):

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

Bold print denotes control parameters

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC1P01AA **Matrix.....:** SOLID
MB Lot-Sample #: D6H230000-438

Prep Date.....: 08/23/06 **Analysis Time..:** 23:13
Analysis Date..: 09/06/06 **Prep Batch #...:** 6235438
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	47	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	70	(53 - 132)
Decachlorobiphenyl	101	(38 - 162)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC1P01AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6H230000-438
Prep Date.....: 08/23/06 **Analysis Date..:** 09/06/06
Prep Batch #...: 6235438 **Analysis Time..:** 23:29
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	124	**(54 - 132)**	**SW846 8082**
Aroclor 1260	111	**(62 - 129)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(53 - 128)
Decachlorobiphenyl	112	(59 - 130)

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 Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JC1P01AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6H230000-438
Prep Date.....: 08/23/06 **Analysis Date..:** 09/06/06
Prep Batch #...: 6235438 **Analysis Time..:** 23:29
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**68.5**	**84.8**	**ug/kg**	**124**	**SW846 8082**
Aroclor 1260	**68.5**	**75.7**	**ug/kg**	**111**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(53 - 128)
Decachlorobiphenyl	112	(59 - 130)

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 Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCMMQ1AM-MS **Matrix.....:** SOLID
MS Lot-Sample #: I6H180119-001 JCMMQ1AN-MSD
Date Sampled...: 08/10/06 **Date Received..:** 08/18/06
Prep Date.....: 08/23/06 **Analysis Date..:** 09/07/06
Prep Batch #...: 6235438 **Analysis Time..:** 00:19
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**40800 a**	**(24 - 170)**			**SW846 8082**
	27900 a	**(24 - 170)**	**40**	**(0-40)**	**SW846 8082**
Aroclor 1260	**3400 a**	**(40 - 166)**			**SW846 8082**
	2860 a	**(40 - 166)**	**20**	**(0-40)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	1730 *	(53 - 132)
	1400 *	(53 - 132)
Decachlorobiphenyl	3130 *	(38 - 162)
	1240 *	(38 - 162)

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.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...:	D6H170353	**Work Order #...:**	JCMMQ1AM-MS JCMMQ1AN-MSD	**Matrix.....:**	SOLID
MS Lot-Sample #:	I6H180119-001				
Date Sampled...:	08/10/06	**Date Received..:**	08/18/06		
Prep Date.....:	08/23/06	**Analysis Date..:**	09/07/06		
Prep Batch #...:	6235438	**Analysis Time..:**	00:19		
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	**ND**	**153000**	**6250000**	**ug/kg**	**40800**		**SW846 8082**
	Qualifiers:	a					
	ND	**150000**	**4170000**	**ug/kg**	**27900**	**40**	**SW846 8082**
	Qualifiers:	a					
Aroclor 1260	**ND**	**153000**	**5220000**	**ug/kg**	**3400 a**		**SW846 8082**
	ND	**150000**	**4290000**	**ug/kg**	**2860 a**	**20**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	1730 *	(53 - 132)
	1400 *	(53 - 132)
Decachlorobiphenyl	3130 *	(38 - 162)
	1240 *	(38 - 162)

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.

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCME01AA **Matrix.....:** SOLID
MB Lot-Sample #: D6H180000-118

Prep Date.....: 08/18/06 **Analysis Time..:** 18:29
Analysis Date..: 09/03/06 **Prep Batch #...:** 6230118
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	13	ug/kg	SW846 8141A
Demeton (total)	ND	39	ug/kg	SW846 8141A
Malathion	ND	15	ug/kg	SW846 8141A
Methyl parathion	ND	20	ug/kg	SW846 8141A
Ethyl parathion	ND	18	ug/kg	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	53	(37 - 124)
Triphenyl phosphate	68	(50 - 150)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: D6H170353 Work Order #...: JCME01AC Matrix.....: SOLID
LCS Lot-Sample#: D6H180000-118
Prep Date.....: 08/18/06 Analysis Date..: 09/03/06
Prep Batch #...: 6230118 Analysis Time..: 17:26
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Malathion	**76**	**(49 - 124)**	**SW846 8141A**
Ethyl parathion	**85**	**(38 - 134)**	**SW846 8141A**
Methyl parathion	**77**	**(51 - 115)**	**SW846 8141A**
Demeton (total)	**65**	**(10 - 123)**	**SW846 8141A**
Diazinon	**79**	**(49 - 122)**	**SW846 8141A**
Phorate	**76**	**(45 - 115)**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	83	(42 - 132)
Triphenyl phosphate	98	(47 - 161)

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 Semivolatiles

Client Lot #...: D6H170353 **Work Order #...:** JCME01AC **Matrix.....:** SOLID
LCS Lot-Sample#: D6H180000-118
Prep Date.....: 08/18/06 **Analysis Date..:** 09/03/06
Prep Batch #...: 6230118 **Analysis Time..:** 17:26
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Malathion	**133**	**100**	**ug/kg**	**76**	**SW846 8141A**
Ethyl parathion	**133**	**113**	**ug/kg**	**85**	**SW846 8141A**
Methyl parathion	**133**	**102**	**ug/kg**	**77**	**SW846 8141A**
Demeton (total)	**133**	**86.2**	**ug/kg**	**65**	**SW846 8141A**
Diazinon	**133**	**104**	**ug/kg**	**79**	**SW846 8141A**
Phorate	**266**	**202**	**ug/kg**	**76**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	83	(42 - 132)
Triphenyl phosphate	98	(47 - 161)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: D6H170353 Work Order #...: JC4CP1AA Matrix.....: WATER
MB Lot-Sample #: G6H240000-361

Prep Date.....: 08/24/06 Analysis Time..: 17:31
Analysis Date..: 08/28/06 Prep Batch #...: 6236361
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.10	ng/L	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	74	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	94	(25 - 150)

NOTE(S):

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

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: D6H170353 **Work Order #...:** JC4A71AA **Matrix.....:** SOLID
MB Lot-Sample #: G6H240000-358

Prep Date.....: 08/24/06 **Analysis Time..:** 20:11
Analysis Date..: 08/25/06 **Prep Batch #...:** 6236358
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.014	ng/g	SW846 8280A

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	94	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	(25 - 150)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: D6H170353 Work Order #...: JC4CP1AC Matrix.....: WATER
LCS Lot-Sample#: G6H240000-361
Prep Date.....: 08/24/06 Analysis Date..: 08/28/06
Prep Batch #...: 6236361 Analysis Time..: 18:19
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	101	(65 - 135)	SW846 8280A
1,2,3,7,8-PeCDD	105	(68 - 140)	SW846 8280A
1,2,3,4,7,8-HxCDD	96	(66 - 126)	SW846 8280A
1,2,3,6,7,8-HxCDD	97	(68 - 128)	SW846 8280A
1,2,3,7,8,9-HxCDD	94	(68 - 128)	SW846 8280A
1,2,3,4,6,7,8-HpCDD	97	(67 - 127)	SW846 8280A
OCDD	93	(67 - 127)	SW846 8280A
2,3,7,8-TCDF	96	(70 - 130)	SW846 8280A
1,2,3,7,8-PeCDF	104	(69 - 138)	SW846 8280A
2,3,4,7,8-PeCDF	104	(69 - 137)	SW846 8280A
1,2,3,4,7,8-HxCDF	100	(64 - 129)	SW846 8280A
1,2,3,6,7,8-HxCDF	100	(68 - 128)	SW846 8280A
2,3,4,6,7,8-HxCDF	99	(71 - 131)	SW846 8280A
1,2,3,7,8,9-HxCDF	98	(70 - 130)	SW846 8280A
1,2,3,4,6,7,8-HpCDF	100	(68 - 128)	SW846 8280A
1,2,3,4,7,8,9-HpCDF	100	(69 - 129)	SW846 8280A
OCDF	93	(66 - 126)	SW846 8280A

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	82	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	97	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	94	(25 - 150)
13C-OCDD	100	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6H170353 **Work Order #...:** JC4CP1AC **Matrix.....:** WATER
LCS Lot-Sample#: G6H240000-361
Prep Date.....: 08/24/06 **Analysis Date..:** 08/28/06
Prep Batch #...: 6236361 **Analysis Time..:** 18:19
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**25.0**	**25.4**	**ng/L**	**101**	**SW846 8280A**
1,2,3,7,8-PeCDD	**62.5**	**65.3**	**ng/L**	**105**	**SW846 8280A**
1,2,3,4,7,8-HxCDD	**62.5**	**59.9**	**ng/L**	**96**	**SW846 8280A**
1,2,3,6,7,8-HxCDD	**62.5**	**60.7**	**ng/L**	**97**	**SW846 8280A**
1,2,3,7,8,9-HxCDD	**62.5**	**58.8**	**ng/L**	**94**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDD	**62.5**	**60.6**	**ng/L**	**97**	**SW846 8280A**
OCDD	**125**	**116**	**ng/L**	**93**	**SW846 8280A**
2,3,7,8-TCDF	**25.0**	**24.0**	**ng/L**	**96**	**SW846 8280A**
1,2,3,7,8-PeCDF	**62.5**	**65.1**	**ng/L**	**104**	**SW846 8280A**
2,3,4,7,8-PeCDF	**62.5**	**65.0**	**ng/L**	**104**	**SW846 8280A**
1,2,3,4,7,8-HxCDF	**62.5**	**62.2**	**ng/L**	**100**	**SW846 8280A**
1,2,3,6,7,8-HxCDF	**62.5**	**62.4**	**ng/L**	**100**	**SW846 8280A**
2,3,4,6,7,8-HxCDF	**62.5**	**61.6**	**ng/L**	**99**	**SW846 8280A**
1,2,3,7,8,9-HxCDF	**62.5**	**61.4**	**ng/L**	**98**	**SW846 8280A**
1,2,3,4,6,7,8-HpCDF	**62.5**	**62.4**	**ng/L**	**100**	**SW846 8280A**
1,2,3,4,7,8,9-HpCDF	**62.5**	**62.2**	**ng/L**	**100**	**SW846 8280A**
OCDF	**125**	**116**	**ng/L**	**93**	**SW846 8280A**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	75	(25 - 150)
13C-2,3,7,8-TCDF	82	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	97	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	94	(25 - 150)
13C-OCDD	100	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	97	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6H170353 Work Order #...: JC4A71AC Matrix.....: SOLID
LCS Lot-Sample#: G6H240000-358
Prep Date.....: 08/24/06 Analysis Date..: 08/25/06
Prep Batch #...: 6236358 Analysis Time..: 20:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	106	(70 - 130)	SW846 8280A
1,2,3,7,8-PeCDD	113	(70 - 138)	SW846 8280A
1,2,3,4,7,8-HxCDD	102	(67 - 127)	SW846 8280A
1,2,3,6,7,8-HxCDD	100	(69 - 129)	SW846 8280A
1,2,3,7,8,9-HxCDD	101	(66 - 126)	SW846 8280A
1,2,3,4,6,7,8-HpCDD	103	(68 - 128)	SW846 8280A
OCDD	97	(66 - 126)	SW846 8280A
2,3,7,8-TCDF	107	(68 - 128)	SW846 8280A
1,2,3,7,8-PeCDF	110	(70 - 140)	SW846 8280A
2,3,4,7,8-PeCDF	109	(71 - 137)	SW846 8280A
1,2,3,4,7,8-HxCDF	102	(67 - 127)	SW846 8280A
1,2,3,6,7,8-HxCDF	101	(67 - 127)	SW846 8280A
2,3,4,6,7,8-HxCDF	103	(66 - 126)	SW846 8280A
1,2,3,7,8,9-HxCDF	102	(65 - 125)	SW846 8280A
1,2,3,4,6,7,8-HpCDF	104	(67 - 127)	SW846 8280A
1,2,3,4,7,8,9-HpCDF	106	(67 - 127)	SW846 8280A
OCDF	96	(65 - 125)	SW846 8280A

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	104	(25 - 150)
13C-2,3,7,8-TCDF	106	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	114	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	113	(25 - 150)
13C-OCDD	124	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	113	(25 - 150)

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

Trace Level Organic Compounds

Client Lot #...: D6H170353 Work Order #...: JC4A71AC Matrix.....: SOLID
LCS Lot-Sample#: G6H240000-358
Prep Date.....: 08/24/06 Analysis Date..: 08/25/06
Prep Batch #...: 6236358 Analysis Time..: 20:59
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	2.50	2.66	ng/g	106	SW846 8280A
1,2,3,7,8-PeCDD	6.25	7.04	ng/g	113	SW846 8280A
1,2,3,4,7,8-HxCDD	6.25	6.38	ng/g	102	SW846 8280A
1,2,3,6,7,8-HxCDD	6.25	6.22	ng/g	100	SW846 8280A
1,2,3,7,8,9-HxCDD	6.25	6.29	ng/g	101	SW846 8280A
1,2,3,4,6,7,8-HpCDD	6.25	6.45	ng/g	103	SW846 8280A
OCDD	12.5	12.1	ng/g	97	SW846 8280A
2,3,7,8-TCDF	2.50	2.69	ng/g	107	SW846 8280A
1,2,3,7,8-PeCDF	6.25	6.86	ng/g	110	SW846 8280A
2,3,4,7,8-PeCDF	6.25	6.81	ng/g	109	SW846 8280A
1,2,3,4,7,8-HxCDF	6.25	6.39	ng/g	102	SW846 8280A
1,2,3,6,7,8-HxCDF	6.25	6.31	ng/g	101	SW846 8280A
2,3,4,6,7,8-HxCDF	6.25	6.41	ng/g	103	SW846 8280A
1,2,3,7,8,9-HxCDF	6.25	6.35	ng/g	102	SW846 8280A
1,2,3,4,6,7,8-HpCDF	6.25	6.52	ng/g	104	SW846 8280A
1,2,3,4,7,8,9-HpCDF	6.25	6.61	ng/g	106	SW846 8280A
OCDF	12.5	12.0	ng/g	96	SW846 8280A

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	104	(25 - 150)
13C-2,3,7,8-TCDF	106	(25 - 150)
13C-1,2,3,6,7,8-HxCDD	114	(25 - 150)
13C-1,2,3,4,6,7,8-HpCDF	113	(25 - 150)
13C-OCDD	124	(25 - 150)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	113	(25 - 150)

NOTE(S):

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

Bold print denotes control parameters

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D6H170353 **Work Order #...:** JCHC7-SMP JCHC7-DUP **Matrix.....:** SOLID

Date Sampled...: 08/09/06 07:30 **Date Received..:** 08/16/06

% Moisture.....: 19

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: G6H160370-016		
	19	22	%	15	(0-10)	ASTM D 2216-90	08/21-08/22/06	6233313

Dilution Factor: 1 Analysis Time..: 10:19

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D6H170353 **Work Order #...:** JCQD7-SMP **Matrix.....:** SOLID
JCQD7-DUP
Date Sampled...: 08/18/06 17:00 **Date Received..:** 08/18/06
% Moisture.....: 18

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: D6H180403-024		
	18	20	%	14	(0-20)	MCAWW 160.3 MOD	08/29-08/30/06	6241521

Dilution Factor: 1 Analysis Time..: 00:40

KINNETIC LABORATORIES, I ...HAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1014 | **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
MOA06VOP020	INF CMP #1	3	8-15-06	0910		
MOA06VOP021	INF CMP #2	3		1200		
MOA06VOP022	INF CMP #3	3		1500		
MOA06VOP023	INF CMP #4	3		1800		
MOA06VOP024	INF CMP #5	3		2110		
MOA06VOP025	INF CMP #6	3		2400		
MOA06VOP026	INF CMP #7	3	8-16-06	0300		
MOA06VOP027	INF CMP #8	3	8-16-06	0600		

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
Susan Lang	8/16/06/1035	hand	M. Arvoie	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Arvoie	8/16/06 1200	FEX-F	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1014 | **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
MOA06VOP028	EFF CMP #1	3	8-15-06	0906		
MOA06VOP029	EFF CMP #2	3		1203		
MOA06VOP030	EFF CMP #3	3		1457		
MOA06VOP031	EFF CMP #4	3		1807		
MOA06VOP032	EFF CMP #5	3		2100		
MOA06VOP033	EFF CMP #6	3	8-16-06	0010		
MOA06VOP034	EFF CMP #7	3	8-16-06	0300		
MOA06VOP035	EFF CMP #8	3	8-16-06	0600		

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
Susan Lay	8/16/06 1035	hand	M. [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. [illegible]	8/16/06 1200	Fed-X	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lay / Susan Lay

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 Days | **P.O. #:** AK06-1014 | **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
MOA06VOP036	C-Station	3	8-15-06	~~0750~~ GC 0715		
MOA06VOP037	Trip Blank	3	8 N/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
Susan Lang	8/16/06 1035	hand	M. Lowe	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Lowe	8/16/06 1200	Fed Ex	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06DXN004	Influent	2	8/15-16/06	0800-0800		
MOA06DXN005	Effluent	2	"	"		

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
Susan Lang	8/16/06 1035	hand	M Mayers	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Mayers	8/16/06 1200	Fed-X	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06DXN006	Sludge	1	8/15-16/06	See COC		

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
Susan Lacy	8/16/06 1035	hand	M Thomas	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Matt Thomas	8/16/06 1200	FedEx	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lacy Susan Lacy

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1014 | **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
MOA06PES007	Sludge	1	8/15-16/06	See COC		

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
Susan Lay	8/16/06 1035	hand	M [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M [illegible]	8/16/06 1200	Fed-X	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lay / Susan Lay

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8270. **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
MOA06SVL006	Sludge	1	8-15/16-06	See COC		

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
Susan Lang	8/16/06 1035	hand	M. [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M [illegible]	8/16/06 1200	Fed-X	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1014	**KLI Proj. #:** 516.01

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
MOA06VOP038	Sludge	1	8/15/06	Dec COC		

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
Susan Lay	8/16/06 1035	hand	M. Lam	8/16/06 1035
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND
M. Lam	8/16/06 1200	FedEx	Diane Bradley	8/16/06 [illegible]
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND

SAMPLED BY (NAME/SIGNATURE): Susan Lay Susan Lay

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06SVL004	Influent	2	8/15-16/06	0800-0800		
MOA06SVL005	Effluent	2	"	"		

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
Susan Lang	8/16/06/1035	hand	M. Amore	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M Mills	8/16/06 1200	FED-X	Dana Bostrom	8/16/06 1200
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4966 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06PST004	Influent	2	8/15-16/06	0800-0800		
MOA06PST005	Effluent	6	8/15-16/06	"		

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
Susan Lang	8/16/06 1035	hand	M Mayers	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Mayers	8/16/06 1200	FED-X	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06PES005	Influent	2	8/15-16/06	0800-0800		
MOA06PES006	Effluent	6	"	"		

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
Susan Lang	8/16/06 / 1035	hand	M Sonnie	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M Sonnie	8/16/06 / 1200	FedEx	[illegible]	[illegible]
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, I. AIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06VOP020	INF CMP #1	3	8-15-06	0910		
MOA06VOP021	INF CMP #2	3		1200		
MOA06VOP022	INF CMP #3	3		1500		
MOA06VOP023	INF CMP #4	3		1800		
MOA06VOP024	INF CMP #5	3		2110		
MOA06VOP025	INF CMP #6	3		2400		
MOA06VOP026	INF CMP #7	3	8-16-06	0300		
MOA06VOP027	INF CMP #8	3	8-16-06	0600		

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
Susan Lang	8/16/06/1035	hand	M. Towne	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M Towne	8/16/06 1200	FedEx	Diane Bridenbaugh	8/17/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06VOP028	EFF CMP #1	3	8-15-06	0904		
MOA06VOP029	EFF CMP #2	3		1203		
MOA06VOP030	EFF CMP #3	3		1457		
MOA06VOP031	EFF CMP #4	3		1807		
MOA06VOP032	EFF CMP #5	3		2100		
MOA06VOP033	EFF CMP #6	3	8-16-06	0010		
MOA06VOP034	EFF CMP #7	3	8-16-06	0300		
MOA06VOP035	EFF CMP #8	3	8-16-06	0600		

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
Susan Lay	8/16/06 1035	hand	M. Harris	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M Harris	8/16/06 1200	FedEx	Diane Bradley	8/16/06 CK30
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lay / Susan Lay

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0.7°C IDL
8/17/06

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 Days | **P.O. #:** AK06-1014 | **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
MOA06VOP036	C-Station	3	8-15-06	~~0700~~ GL 0715		
MOA06VOP037	Trip Blank	3	8 N/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
Susan Lang	8/16/06 1035	hand	M. [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M [illegible]	8/16/06 1200	Fedex	[illegible]	8/16/06 0880
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06DXN004	Influent	2	8/15-16/06	0800-0800		
MOA06DXN005	Effluent	2	"	"		

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
Susan Lang	8/16/06 1035	hand	M Lam	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Lam	8/16/06 1200	Fed-X	Diane Bridenbaugh	8/16/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06DXN006	Sludge	1	8/15-16/06	See COC		

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
Susan Lang	8/16/06 1035	hand	M Thomas	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Mike Thomas	8/16/06 1500	FedEx	Diane Buckner	8/16/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1014 | **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
MOA06PES007	Sludge	1	8/15-16/06	See COC		

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
Susan Lang	8/16/06 1035	hand	M [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M [illegible]	8/16/06 1200	Fed-X	Diane Bredenberg	8/16/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**KLI Proj. #:** 516.01

ANALYSIS TYPE: EPA 8270. **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
MOA06SVL006	Sludge	1	8-15-06	See COC		

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
Susan Lacy	8/16/06 1035	hand	M. Bowen	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Bowen	8/16/06 1200	Fed-X	Diane Bridenbaugh	8/16/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lacy / Susan Lacy

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0.8° IR2
8/17/06

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 Days	**P.O. #:** AK06-1014	**KLI Proj. #:** 516.01

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
MOA06VOP038	Sludge	1	8/15-16/06	Dee COC		

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
Susan Lang	8/16/06 1035	hand	M. Jones	8/16/06 1035
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND
M. Jones	8/16/06 1200	Fed-X	Diane Bradley	8/16/06 0830
RELINQUISHED BY:	DATE AND	TRANSPORTED	RECEIVED BY:	DATE AND

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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4.6°
IR2
8/17/06

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1014 | **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
MOA06SVL004	Influent	2	8/15-16/06	0800-0800		
MOA06SVL005	Effluent	2	"	"		

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
Susan Lang	8/16/06 / 1035	hand	M. Sorrini	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/16/06 1200	FED-X	Deane Bradenby	8/16/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4966 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06PST004	Influent	2	8/15-16/06	0800-0800		
MOA06PST005	Effluent	6	8/15-16/06	"		

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
Susan Lang	8/16/06 1035	hand	M Tan	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M. Tan	8/16/06 1200	FED-X	Diane Bradley	8/17/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303)736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1014	**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
MOA06PES005	Influent	2	8/15-16/06	0800-0800		
MOA06PES006	Effluent	6	"	"		

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
Susan Lang	8/16/06 1035	hand	M Sowine	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
M Sowine	8/16/06 1200	FedEx	Diane Brudanly	8/16/06 0820
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B4 Asbestos

Solar Environmental Services, Inc. and EMSL Analytical, Inc.

AUGUST SAMPLING, ASBESTOS, SES AND EMSL SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06ASB004	INFLUENT	SAMPLE
MOA06ASB005	EFFLUENT	SAMPLE
MOA06ASB006	SLUDGE	SAMPLE

SES

Solar Environmental Services, Inc.

1131 E. 76th Avenue, Suite 102
Anchorage, AK 99518
Home Page: www.alaska.net/~sesenvir/

Phone: (907) 349-7705
Fax: (907) 349-7944
E-mail: sesenvir@alaska.net

CERTIFICATE OF ANALYSIS

CLIENT:	Kinnetic Laboratories, Inc.	**CLIENT ORDER #:**	194019
ATTN:	Janet Savoie	**PROJECT NAME:**	516.01
	403 W. Eight Avenue	**PROJECT #:**	AK06-1013
	Anchorage, Alaska 99501	**REPORT #:**	B2006-103
		REPORT DATE:	October 11, 2006
		COLLECTED BY:	Client
		DATE SAMPLED:	August 15, 2006
		DATE RECEIVED:	August 16, 2006
		DATE ANALYZED:	October 11, 2006
		ANALYZED BY:	Grace T.

PAGE: 1 of 1

ASBESTOS QUALITATIVE DUST ANALYSIS SUMMARY

POLARIZED LIGHT MICROSCOPY (PLM) WITH DISPERSION STAINING

Lab.#	Client#	Location/ Description (color)	Asbestos Present	Other Materials Present
2006531BO221	MOA06ASB006	Sludge (Gray)	None Detected	Cellulose Positive

End of Report

Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test Report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected results cannot be guaranteed. Electron Microscopy is recommended for confirmation. This is not covered by NVLAP.

REVIEWED AND APPROVED BY: Gracita O. Torrijos, Chemist – I.H.

Date: 10/13/06

FORM# SES 1031-REVISED 08-07-96

AIHA – AAR – PAT Certified

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Solar Environmental Services 7401 Meadow St. Anchorage, AK 99507 Attn: Grace Torrijos (907)349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178 B2006-103

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1013	**KLI Proj. #:** 516.01

ANALYSIS TYPE: ASBESTOS PLM. Method detection limit to be determined.

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
221 MOA06ASB006	Sludge	1	8-15/16/06	see COC		

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
Susan Lang	8/16/06 1035	hand	M [illegible]	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/16/06 1305	hand	[illegible]	8/16/06 13:06
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4960 Email: westmontasblab@EMSL.com

Attn: **Grace Torrijos**
Solar Environmental Services, Inc.
7401 Meadow Street
Anchorage, AK 99507

Fax: Phone: (907) 349-7705
Project: **MOA-ANCH**

Customer ID:	SOLA50
Customer PO:	1758 083006
Received:	08/31/06 9:45 AM
EMSL Order:	040618414
EMSL Proj:	
Analysis Date:	9/1/2006
Report Date:	9/1/2006

Determination of Asbestos Structures over 10um in Length in Waste Water Performed by the EPA 100.2 Method

Sample ID	Sample Prep Date	# Fibers Asbestos	# Fibers Non-Asbestos	Type(s) Of Asbestos	Analytical Sensitivity (MFL)	Confidence Limits	Concentration Of Asbestos Fibers (MFL)	Comments
MOA-A06ASB004 *040618414-0001*	8/31/2006	0	0		100.00	0.00-380.00	<100.00	
MOA-A06ASB005 *040618414-0002*	8/31/2006	0	0		100.00	0.00-380.00	<100.00	

Analyst(s)
Steve Siegel (2)

Stephen Siegel, CIH
or other approved signatory

Sample collection and containers provided by the client, acceptable bottle blank level is defined as <=0.01MFL>10um. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.
ACCREDITATIONS: NJ Lab ID: 04006, NYS ELAP Lab ID: 10872, NVLAP 101048-0, FL Lab ID: E87788

THIS IS THE LAST PAGE OF THE REPORT.

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Solar Environmental Services 7401 Meadow St. Anchorage, AK 99507 Attn: Grace Torrijos (907)349-7705	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1013	**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
MOA06ASB004	Influent	1	8/15-16/06	0800-0800		
MOA06ASB005	Effluent	1	"	"		

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
Susan Lang	8/16/06 1035	hand	M. Sumi	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	8/16/06 1305	Land		8/16/06 1:06 P.M.
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

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APPENDIX B

Toxic Pollutant and Pesticide Monitoring, August Sampling

B5 Enterococci

Analytica Alaska, Inc.

AUGUST SAMPLING, ENTEROCOCCI, ANALYTICA ALASKA SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06ENT003	EFFLUENT REP-1	SAMPLE
MOA06ENT004	EFFLUENT REP-2	SAMPLE

ANALYTICA
GROUP

Analytica International, Inc.
5761 Silverado Way, Unit N
Anchorage, AK 99518
Phone: 907-258-2155
Fax: 907-258-6634

Kinnetic Laboratories
Attn: Tim Mayers
1102 W. 7th
Anchorage, AK 99501
907-276-6178
Fax: 907-278-6881

Report Date: 8/28/2006
Receipt Date: 8/15/2006
Sample Date: 8/15/2006
Sample Time: 1:00:00PM
Collected By: SL

Client Sample ID: **MOA06ENT003**
Sampling Location: **Effluent-1**
Client Project: 2006 AWWU MOA
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Lab#: A0608222-01A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
9230B (Aqueous) - Enterococcus - Quantit					*Test was conducted by: Analytica - Anchorage*				
Enterococci by MPN	1.0	MPN/100ml		1.0			8/15/2006	8/15/2006	PL

Reported by: Steve Gaither,
Laboratory Project Manager

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Analytica Alaska, Inc. 5761 Silverado Way, Suite N Anchorage, AK 99518 (907) 258-2155 Attn: Krissy Plett	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1016	**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
MOA06ENT003	Effluent-1	2	8-15-06	1300		
MOA06ENT004	Effluent-2	2	8-15-06	1300		

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
Susan Lang	8-15-06/1415			8/15/06 1715
	8/15/06 1740		RW	8/15/06 2:42
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang

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APPENDIX C

Whole Effluent Toxicity Testing

C1 First Quarter Testing

ToxScan, Inc.

ToxScan Inc.
42 Hangar Way • Watsonville, CA 95076-2404 • (831) 724-4522 • FAX (831) 724-3188

John M. Asplund Water Pollution Control Facility
Chronic Toxicity Testing – 1st Quarter 2006
NPDES Permit No. AK002255-1

Urchin Chronic Bioassay Results:
Purple Sea Urchin (*Strongylocentrotus purpuratus*)

SAMPLES RECEIVED:

[25 January] and 10 February 2006
(KLI Project 516.03)

[T601009] and T602003

Prepared for:

KINNETIC LABORATORIES, INC.
Anchorage, Alaska

Prepared by:

TOXSCAN, INC.
BIOASSAY DIVISION
Watsonville, California

February 2006

Introduction

One effluent sample from the Municipality of Anchorage's John M. Asplund ("Point Woronzof") Water Pollution Control Facility (WPCF) was collected by Kinnetic Laboratories, Inc. personnel and shipped via overnight courier to ToxScan's laboratory in Watsonville, CA for whole effluent toxicity (WET) testing. The sample was collected as a 24-hr flow-based composite final effluent sample on 8 – 9 February 2006. The sample arrived at ToxScan on 10 February, and was assigned the ToxScan laboratory number **T602003**. The bioassay was initiated on the same day it was received.

A prior effluent sample (**T601009**) was collected on 23 – 24 January and was tested on 25 January 2006. However, that first bioassay did not meet test acceptability criteria (TAC) with a very strong response in the reference toxicant test. The results presented in this report represent the test of the second (repeat) sample.

One short-term chronic toxicity test was requested as required by the National Pollutant Discharge Elimination System (NPDES) permit for the facility, an urchin fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*). The test is of short duration (20 minute exposure) and requires only a single effluent sample.

Five concentrations of effluent plus a control were tested. Following permit directions, the five concentrations were 0.175%, 0.35%, 0.7%, 1.4% and 2.8% effluent. Dilutions of the effluent were made with natural seawater from our laboratory system, resulting in test solutions whose salinity was high enough to be compatible with the requirements of the test organisms.

Upon receipt, the following water quality parameters were measured in each sample:

Sample	pH	Temp[1]	D.O.	Conductivity[2]	Salinity	Alkalinity	Hardness	CL_2	NH_3
T-602003	--	°C	mg/L	µ/mhos/cm	‰	mg $CaCO_3$/L	mg $CaCO_3$/L	mg/L	mg/L
-01 MOA06TOX002	7.5	2.4	10.4	536	0.5	180	167	0.20	26.1

[1] During warming for test. [2] Specific conductance, corrected to 25°C

Method

The test method followed *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, August, 1995), and is briefly described below:

Eggs and sperm were obtained from gravid adult sea urchins by injection with 0.5M potassium chloride. Urchin broodstock was supplied by the Granite Canyon laboratory of UC Santa Cruz. Care was taken to avoid contact of eggs with sperm prior to test initiation. Sperm and eggs were diluted to appropriate concentrations with seawater, and aliquots of sperm were precisely pipetted into test chambers (test tubes) containing diluted effluent. After sperm had been in contact with the effluent precisely 20 minutes, aliquots of unfertilized eggs were added to the test chambers and fertilization was allowed to proceed for a second 20-minute period. At the end of the 20-minute fertilization period, 10% formalin was added to each test chamber to stop all biological activity. Test chambers were then examined microscopically to score the numbers

of fertilized and unfertilized eggs. Four replicate test chambers were used for control (seawater only) exposures and for each dilution of test effluent. Test temperature was 12±1°C. The test met acceptability criteria; seawater controls achieved greater than 70% egg fertilization, there was no fertilization in egg controls, %MSD was <25% relative to controls and final sperm stock density was <33,600,000 per mL.

Results

The results of the sea urchin fertilization bioassay are summarized in Appendix A, a printout generated by CETIS™, a statistical software program (Tidepool Scientific Software, McKinleyville, CA). Statistical analyses of these data show that there was a significant decrease in egg fertilization at the 2.8% sample concentration when compared with the seawater-only controls. The NOEC for fertilization was 1.4%, the LOEC was 2.8% and the chronic toxicity units were 71.4 TUc. Appendix A also presents the results of the concurrent reference toxicant test in which copper was the toxicant to which the sperm were exposed. The EC_{25} for fertilization and copper was 9.4 ppb, which is within our laboratory control chart limits for this organism-toxicant combination and indicates that the test population was typically sensitive. All test acceptability criteria were met in both the effluent bioassay and the reference toxicant bioassay. A summary of bioassay conditions for the test is presented in Appendix B.

Discussion

This effluent produced permissible toxicity (≤143 TUc) to urchin fertilization.

Monthly monitoring data for February 2006 that includes daily flow and laboratory test results that were conducted concurrently with the WET testing for the Asplund WPCF are presented in Appendix C. Plant flow, chemical concentrations, and other physical measurements were found to be typical for the Asplund facility during the WET testing.

Appendix A

CETIS™ Reports

CETIS Test Summary

Report Date: 28 Feb-06 11:49 AM
Test Link: 16-2613-0305/602003SP01

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Test No:	04-4123-3055	**Test Type:**	Fertilization	**Duration:**	46m
Start Date:	10 Feb-06 01:14 PM	**Protocol:**	EPA/600/R-95/136 (1995)	**Species:**	Strongylocentrotus purpuratus
Ending Date:	10 Feb-06 02:00 PM	**Dil Water:**	Laboratory Seawater	**Source:**	Granite Canyon Lab
Setup Date:	10 Feb-06 01:14 PM	**Brine:**	Not Applicable		

Sample No:	06-3936-0787	**Material:**	Effluent	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	09 Feb-06 06:01 AM	**Code:**	602003-01	**Project:**	Point Woronzoff
Receive Date:	10 Feb-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
04-2264-3361	Proportion Fertilized	1.4	2.8	1.9799	18.91%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
06-9241-4073	Proportion Fertilized	5	1.546257	1.5219	1.579475	Linear Interpolation
		10	1.692513	1.643905	1.75895	
		15	1.83877	1.766513	1.938424	
		20	1.985026	1.889236	2.117899	
		25	2.131283	2.011545	2.297374	
		40	2.570053	2.378472	2.835799	
		50	> 2.8	N/A	N/A	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
04-2264-3361	Proportion Fertilized	Control Response	0.81428	0.7 - NL	Yes	Passes acceptability criteria
06-9241-4073	Proportion Fertilized	Control Response	0.81428	0.7 - NL	Yes	Passes acceptability criteria
04-2264-3361	Proportion Fertilized	PMSD	0.18911	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.81428	0.61000	0.88496	0.06812	0.13623	16.73%
0.175		4	0.93979	0.84524	1.00000	0.03316	0.06632	7.06%
0.35		4	0.92491	0.81452	0.97087	0.03737	0.07473	8.08%
0.7		4	0.94831	0.89130	0.98039	0.01956	0.03912	4.12%
1.4		4	0.94993	0.93458	0.96324	0.00739	0.01477	1.56%
2.8		4	0.47730	0.41781	0.55140	0.02878	0.05755	12.06%

Proportion Fertilized Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.88496	0.87719	0.88496	0.61000
0.175		1.00000	0.84524	0.96154	0.95238
0.35		0.81452	0.97087	0.97087	0.94340
0.7		0.98039	0.96154	0.89130	0.96000
1.4		0.94000	0.96190	0.96324	0.93458
2.8		0.49000	0.55140	0.45000	0.41781

CETIS Analysis Detail

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Sample No:	06-3936-0787	**Material:**	Effluent	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	09 Feb-06 06:01 AM	**Code:**	602003-01	**Project:**	Point Woronzoff
Receive Date:	10 Feb-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Comparison	16-2613-0305	16-2613-0305	13 Feb-06 4:43 PM	CETISv1.1.1

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		1.4	2.8	71.4286	1.9799	18.91%

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	7.38978	15.08627	0.19323	Equal Variances
Distribution	Shapiro-Wilk W	0.89856		0.02006	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	1.100674	0.2201349	5	17.47	0.00000	Significant Effect
Error	0.2268444	0.0126025	18			
Total	1.32751881	0.2327373	23			

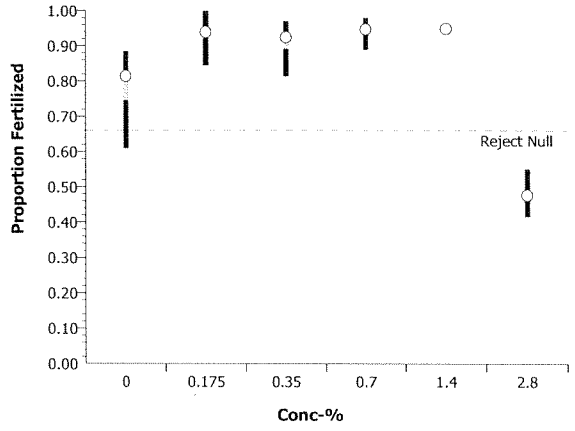
Group Comparisons

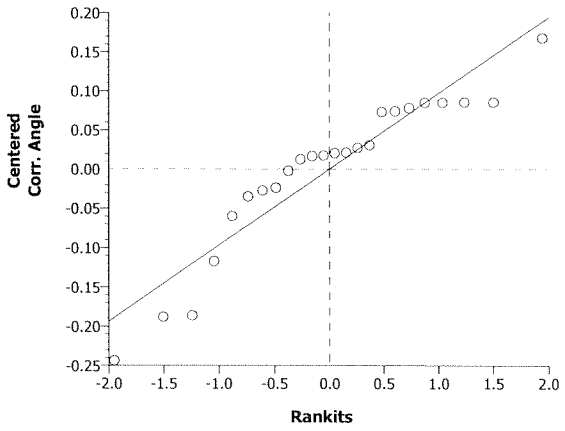
Control	vs	Conc-%	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		0.175	-2.6861	2.40711	0.9999	0.19108	Non-Significant Effect
		0.35	-2.1925	2.40711	0.9995	0.19108	Non-Significant Effect
		0.7	-2.6751	2.40711	0.9999	0.19108	Non-Significant Effect
		1.4	-2.6113	2.40711	0.9999	0.19108	Non-Significant Effect
		2.8	4.74969	2.40711	0.0004	0.19108	Significant Effect

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	4	0.81428	0.61000	0.88496	0.13623	1.13964	0.89631	1.22475	0.16232
0.175		4	0.93979	0.84524	1.00000	0.06632	1.35286	1.16647	1.52078	0.14533
0.35		4	0.92491	0.81452	0.97087	0.07473	1.31368	1.12555	1.39929	0.12953
0.7		4	0.94831	0.89130	0.98039	0.03912	1.35199	1.23482	1.43031	0.08292
1.4		4	0.94993	0.93458	0.96324	0.01477	1.34692	1.31215	1.37786	0.03404
2.8		4	0.47730	0.41781	0.55140	0.05755	0.76261	0.70283	0.83689	0.05773

Graphics





CETIS Analysis Detail

Report Date: 28 Feb-06 11:49 AM
Analysis: 06-9241-4073/602003SP01

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Sample No:	06-3936-0787	**Material:**	Effluent	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	09 Feb-06 06:01 AM	**Code:**	602003-01	**Project:**	Point Woronzoff
Receive Date:	10 Feb-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Linear Interpolation	16-2613-0305	16-2613-0305	10 Feb-06 3:31 PM	CETISv1.1.1

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

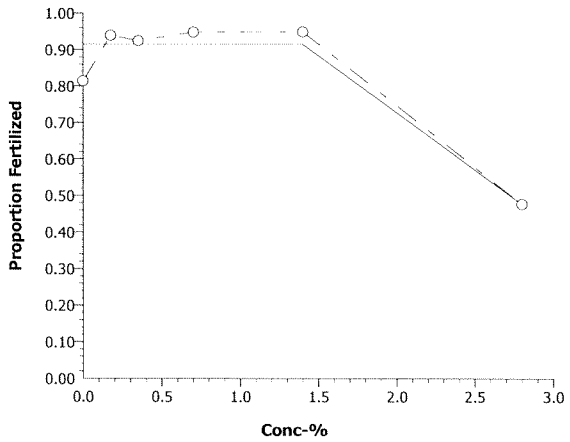
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	1.546257	1.5219	1.579475
10	1.692513	1.643905	1.75895
15	1.83877	1.766513	1.938424
20	1.985026	1.889236	2.117899
25	2.131283	2.011545	2.297374
40	2.570053	2.378472	2.835799
50	> 2.8	N/A	N/A

Data Summary

			Calculated Variate(A/B)						
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	4	0.81428	0.61000	0.88496	0.02781	0.13623	361	440
0.175		4	0.93979	0.84524	1.00000	0.01354	0.06632	442	477
0.35		4	0.92491	0.81452	0.97087	0.01525	0.07473	401	436
0.7		4	0.94831	0.89130	0.98039	0.00798	0.03912	419	444
1.4		4	0.94993	0.93458	0.96324	0.00302	0.01477	426	448
2.8		4	0.47730	0.41781	0.55140	0.01175	0.05755	214	453

Graphics



CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Sample No:	06-3936-0787	**Material:**	Effluent	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	09 Feb-06 06:01 AM	**Code:**	602003-01	**Project:**	Point Woronzoff
Receive Date:	10 Feb-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Original Sample Measurements

Sample Code	Parameter	Measurement
602003-01	Alkalinity (CaCO3)-mg/L	180
	Hardness (CaCO3)-mg/L	167
	Total Ammonia (N)-mg/L	26.1
	Total Residual Chlorine-mg/L	0.2

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8	8	8			
0.175		1	8	8	8			
0.35		1	8	8	8			
0.7		1	8.1	8.1	8.1			
1.4		1	8.1	8.1	8.1			
2.8		1	8.1	8.1	8.1			
Pooled		6	8.05	8	8.1			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8	8	8			
0.175		1	8	8	8			
0.35		1	8	8	8			
0.7		1	8	8	8			
1.4		1	8	8	8			
2.8		1	8	8	8			
Pooled		6	8	8	8			

Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.6	32.6	32.6			
0.175		1	32.3	32.3	32.3			
0.35		1	32.5	32.5	32.5			
0.7		1	32.3	32.3	32.3			
1.4		1	32.1	32.1	32.1			
2.8		1	31.7	31.7	31.7			
Pooled		6	32.25	31.7	32.6			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
0.175		1	12	12	12			
0.35		1	12	12	12			
0.7		1	12	12	12			
1.4		1	12	12	12			
2.8		1	12	12	12			
Pooled		6	12	12	12			

CETIS Test Summary

Report Date: 28 Feb-06 12:26 PM
Test Link: 07-5807-1629/602003SP-R

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Test No:	04-4123-3055	**Test Type:**	Fertilization	**Duration:**	46m
Start Date:	10 Feb-06 01:14 PM	**Protocol:**	EPA/600/R-95/136 (1995)	**Species:**	Strongylocentrotus purpuratus
Ending Date:	10 Feb-06 02:00 PM	**Dil Water:**	Laboratory Seawater	**Source:**	Granite Canyon Lab
Setup Date:	10 Feb-06 01:14 PM	**Brine:**	Not Applicable		

Sample No:	10-2395-9301	**Material:**	Copper sulfate	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	10 Feb-06 01:14 PM	**Code:**	602003	**Project:**	Point Woronzoff
Receive Date:	10 Feb-06 01:14 PM	**Source:**	Reference Toxicant		
Sample Age:	N/A (4 °C)	**Station:**			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
16-2584-5136	Proportion Fertilized	9	18	12.7279	16.75%	Steel Many-One Rank

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
14-3317-9384	Proportion Fertilized	5	2.036312	0.6491709	13.613	Linear Interpolation
		10	4.072625	1.298342	13.18281	
		15	6.108937	1.947512	12.75262	
		20	8.145249	2.596684	12.33214	
		25	9.365967	3.735211	12.39656	
		40	11.2581	8.039936	13.66806	
		50	12.51952	9.885477	14.51572	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
14-3317-9384	Proportion Fertilized	Control Response	0.79206	0.7 - NL	Yes	Passes acceptability criteria
16-2584-5136	Proportion Fertilized	Control Response	0.79206	0.7 - NL	Yes	Passes acceptability criteria
16-2584-5136	Proportion Fertilized	PMSD	0.16755	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.79206	0.59292	0.90090	0.07091	0.14181	17.90%
9		4	0.61703	0.50000	0.73239	0.06498	0.12996	21.06%
18		4	0.05190	0.04000	0.06000	0.00493	0.00985	18.98%
36		4	0.01452	0.00000	0.03846	0.00922	0.01845	127.06
72		4	0.00490	0.00000	0.01961	0.00490	0.00980	200.00
144		4	0.00745	0.00000	0.01000	0.00248	0.00497	66.67%

Proportion Fertilized Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.78846	0.88596	0.90090	0.59292
9		0.50909	0.50000	0.73239	0.72662
18		0.04000	0.04762	0.06000	0.06000
36		0.03846	0.00000	0.01961	0.00000
72		0.01961	0.00000	0.00000	0.00000
144		0.00990	0.00000	0.01000	0.00990

Appendix B

Summary of Test Conditions

Table B-1. Sea Urchin Bioassay

Test ID:	T602003
Test Method:	EPA/600/R-95/036 (1005.0)
Test Type:	Static
Test Endpoint:	Fertilization
Test Duration:	20 minute exposure
Temperature:	12 ± 1°C
Start:	10 February 2006
Finish:	10 February2006
Test Volume:	5 mL
Test Material:	POTW Effluent
Test Concentrations:	2.8%, 1.4%, 0.7%, 0.35%, 0.175%, and 0%(control)
# Replicates:	4
Test Species:	*Strongylocentrotus purpuratus*
Source:	Granite Canyon Labs - MPSL
Age:	Gametes
Dilution / Control Water:	1.0 micron-filtered laboratory seawater
Diet:	n/a

Appendix C

Monthly Monitoring Report – February 2006
John M. Asplund Water Pollution Control Facility

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

February 2006

		Flow	BOD5							TS		TVS		Suspended Solids (TSS)							VSS		TDS	
		MGD	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L
			24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	24 HC	24 HC	24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	CALC	CALC
Date	Day		I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE	I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE
1-Feb	Wed	27.524	202	135		33	46369	30989		620	568	284	140	244	62		75	56010	14232		210	46	376	506
2-Feb	Thu	27.107	183	132		28	41371	29842		564	616	286	212	208	54		74	47023	12208		178	40	356	562
3-Feb	Fri	27.658																						
4-Feb	Sat	28.161			134				30415							58				13220				
5-Feb	Sun	28.730																						
6-Feb	Mon	31.070	194	124		36	50270	32131		528	530	260	180	256	52		80	66336	13474		224	40	272	478
7-Feb	Tue	27.628	222	126		43	51153	29033		652	604	310	196	280	44		84	64517	10138		250	36	372	560
8-Feb	Wed	26.724	192	138		28	42793	30757		608	612	330	228	178	46		74	39672	10252		154	32	430	566
9-Feb	Thu	26.964	232	154		34	52172	34631		620	590	292	166	226	56		75	50823	12593		190	40	394	534
10-Feb	Fri	27.193																						
11-Feb	Sat	28.217			136				31638							50				11615				
12-Feb	Sun	30.023																						
13-Feb	Mon	27.328	220	161		27	50141	36694		648	622	332	210	200	42		79	45583	9572		168	30	448	580
14-Feb	Tue	25.558	256	177		31	54567	37728		612	552	276	176	196	38		81	41778	8100		164	28	416	514
15-Feb	Wed	25.635	236	179		24	50456	38269		664	550	356	210	186	50		73	39766	10690		160	40	478	500
16-Feb	Thu	25.638	228	183		20	48751	39129		592	544	278	200	224	58		74	47896	12402		190	46	368	486
17-Feb	Fri	25.508																						
18-Feb	Sat	26.758			175				37955							47				10191				
19-Feb	Sun	33.346																						
20-Feb	Mon	27.456	212	169		20	48544	38698		626	556	292	212	218	60		72	49918	13739		178	40	408	496
21-Feb	Tue	25.539	246	195		21	52397	41534		636	524	316	196	200	50		75	42599	10650		168	38	436	474
22-Feb	Wed	24.860	304	183		40	63029	37942		668	514	324	170	254	46		82	52662	9537		204	32	414	468
23-Feb	Thu	25.015	264	190		28	55077	39639		738	558	398	214	260	60		77	54243	12518		220	46	478	498
24-Feb	Fri	25.180																						
25-Feb	Sat	24.966			184				39453							54				11611				
26-Feb	Sun	25.374																						
27-Feb	Mon	25.772	276	183		34	59323	39334		600	472	350	182	230	42		82	49436	9027		202	32	370	430
28-Feb	Tue	25.202	256	182	183	29	53807	38254	38794	654	494	326	178	232	42	42	82	48763	8828	8928	198	32	422	452
MIN		24.860	183	124	134	20	41371	29033	30415	528	472	260	140	178	38	42	72	39672	8100	8928	154	28	272	430
MAX		33.346	304	195	184	43	63029	41534	39453	738	622	398	228	280	62	58	84	66336	14232	13220	250	46	478	580
AVE		27.005	233	163			51264	35913		627	557	313	192	225	50			49814	11123		191	37	402	507
						30											78							

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

February 2006

		Parameter	Temp		pH		D O	Total Ammonia NH3 - N	Chloride	Total Chlorine Residual		Fecal Coli	Sludge Cake		Filtrate
		Units	deg C	deg C	units	units	mg/L	mg/L	mg/L	mg/L	mg/L	FC/100 mL	% TS	% TVS	mg/L SS
		MDL						0.03				2			
		Sample Type	G	G	G	G	G	24 HC	24 HC	8 G/DAY AVE	G	G	24 HC (3 G)		24 HC (48 G)
Date	Day	Sample Point	I	FE	I	FE	FE	FE	I	FE	FE	FE	Discharge Belt		Belt press
1-Feb	Wed		10.2	10.1	7.3	7.0	6.8		62	0.45	0.15	14	30.1	85.3	1870
2-Feb	Thu		10.0	9.7	7.2	6.9	3.3		67	0.04	0.07	330	29.2	87.2	2240
3-Feb	Fri		10.1	10.2	7.3	6.8	2.1			0.13			30.0	87.6	1870
4-Feb	Sat									0.36			29.8	87.5	2120
5-Feb	Sun		9.8	9.7	7.6	7.3				0.33			30.1	85.7	1800
6-Feb	Mon		9.8	10.1	7.2	6.9	4.4		57	0.31	0.60	8	31.8	84.6	2130
7-Feb	Tue		10.2	10.6	7.3	6.9	3.1		88	0.42	0.29	8	31.1	85.7	2680
8-Feb	Wed						2.3		61	0.36			30.5	86.2	2840
9-Feb	Thu								66	0.48			32.2	86.6	3280
10-Feb	Fri		11.0	10.5	7.1	7.0	3.2			0.37	0.01	22	30.3	86.0	2260
11-Feb	Sat									0.69	0.46	5	33.5	85.4	2470
12-Feb	Sun		9.3	10.4	7.1	7.0				0.40	0.46	< 2	33.9	82.2	2070
13-Feb	Mon		10.5	10.1	7.2	6.8	6.4		64	0.48	0.28	330	34.4	82.6	2380
14-Feb	Tue		11.0	10.1	7.4	7.1	5.3		62	0.16	0.00	490	32.8	83.7	2060
15-Feb	Wed		10.8	10.2	7.4	7.3	6.1		65	0.10			29.9	85.6	1570
16-Feb	Thu								62	0.31			30.4	87.1	1660
17-Feb	Fri						2.8			0.08			31.4	87.3	2560
18-Feb	Sat									0.34			31.4	86.2	990
19-Feb	Sun		9.4	9.2	7.3	7.1				0.55			29.1	85.6	2220
20-Feb	Mon								62	0.28			30.4	84.3	1350
21-Feb	Tue		10.7	10.2	7.2	7.1	3.5		63	0.22	0.39	79	31.0	84.9	1920
22-Feb	Wed		11.1	10.2	7.3	7.1	4.9		64	0.09	0.00	33	31.0	85.3	2510
23-Feb	Thu		10.8	10.0	7.3	7.1	2.8		72	0.04	0.04	105	30.3	86.3	2910
24-Feb	Fri						2.1			0.08			30.9	86.3	2720
25-Feb	Sat									0.09			28.2	86.8	4270
26-Feb	Sun		8.9	8.6	7.4	7.1				0.30			28.1	87.4	3980
27-Feb	Mon		10.5	9.9	7.5	7.4	6.3	19.32	55	0.43	0.35	79	31.7	87.6	3720
28-Feb	Tue		10.8	10.4	7.3	7.2	4.8		64	0.35	0.63	5	29.2	86.9	3480
MIN	MIN		8.9	8.6	7.1	6.8	2.1	18.7	55	0.04	0.00	< 2	28.1	82.2	990
MAX	MAX		11.1	10.6	7.6	7.4	6.8	19.3	88	0.69	0.63	490	34.4	87.6	4270
AVE	AVE		10.3	10.0			4.1	19.3	65	0.29	0.27	32	30.8	85.9	2426

February 2006

COMMENTS

Report Prepared By: Mark Spano, Water Quality Supervisor

Report Checked By: Paul Smith, Water Quality Tech II

Abbreviations

AVE	arithmetic average	ND	not detected	% REM	percent removal, calculated from daily concentrations
	(except Fecal Coli which is a geometric mean)	MGD	million gallons per day	%REM CALCTD	average percent removal, calculated from monthly
BOD5	biochemical oxygen demand, 5 day test	mg/L	milligrams per liter		average concentrations; reported on DMR per
CALCTD	calculated	mg/kg	milligrams per kilogram of dry weight		EPA guidelines
DO	dissolved oxygen	MPN	most probable number	S	sludge cake
deg C	degree(s) Celsius	NR	no analytical results or unusable data due	TDS	total dissolved solids
E	estimated result		to lab error or failure to meet quality control	TS	total solids
FE	final effluent		criteria	TSS	total suspended solids
G	grab	NT	not tested	TVS	total volatile solids
I	influent			VSS	volatile suspended solids
LWA	loading, weekly average			24 HC	24 hour flow composite
				24 HC (3G)	24 hour composite of one grab per each eight hour shift

Comments, Footnotes:

P.1: The final effluent autosampler is normally taken off line on Saturdays, Mondays, and Wednesdays for line cleaning for approximately 1.5 hours each time; the composite samples for BODs, TSS, etc. are therefore slightly less than a 24HC on these days.

P.2: The incinerator was taken off line Monday February 13. It will be down for up to six weeks for the incinerator recontrol project.

Wastewater metals, cyanide, and oil & grease analyses are conducted twice per year during toxic pollutant testing. Results are no longer reported on the MMR; they are filed in the toxic pollutant folders in the file room and reported in the annual report to EPA. Metals analyses on sludge for 40 CFR Part 503 are conducted periodically but are no longer reported on the MMR. Results are reported to EPA each year on February 19 on reports found in W:Wastewater\Asplund WWTF\Reports\Part503\.

Permit Exceedances:

T602003

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 W. 7th Ave. Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178	
Required Completion Date: ASAP	P.O. #:AK06-1001	KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Stronglocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently. Please see attached permit pages for further information, including reporting requirements.

	Preservative: None (4° C)	**Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX002	1	2/08-09/06	0550-0601	INTACT @ 0°C	T602003-01

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Marlene Kanner	2/9/06 - 0920	hand	[signature]	2/9/06 0920
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	2/9/06 1400	FED EX	DBLewis	2/10/06 10:00h.
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Marlene Kanner

APPENDIX C

Whole Effluent Toxicity Testing

C2 Second Quarter Testing

ToxScan, Inc.

ToxScan Inc.
42 Hangar Way • Watsonville, CA 95076-2404 • (831) 724-4522 • FAX (831) 724-3188

John M. Asplund Wastewater Treatment Facility
Chronic Toxicity Testing – 2nd Quarter 2006
NPDES Permit No. AK002255-1

Urchin Chronic Bioassay Results:
Purple Sea Urchin (*Strongylocentrotus purpuratus*)

SAMPLE RECEIVED: 19 April 2006
(KLI Project 516.03)

T-604003

Prepared for:

KINNETIC LABORATORIES, INC.
Anchorage, Alaska

Prepared by:

TOXSCAN, INC.
BIOASSAY DIVISION
Watsonville, California

May 2006

Introduction

One effluent sample from the Municipality of Anchorage's John M. Asplund ("Point Woronzof") Water Pollution Control Facility (WPCF) was collected by Kinnetic Laboratories, Inc. personnel and shipped via overnight courier to ToxScan's laboratory in Watsonville, CA for whole effluent toxicity (WET) testing. The sample was collected as a 24-hr flow-based composite final effluent sample on 17-18 April 2006. The sample arrived at ToxScan on 19 April, and was assigned the ToxScan laboratory number **T604003**. The bioassay was initiated on the same day the sample was received.

One short-term chronic toxicity test was requested as required by the National Pollutant Discharge Elimination System (NPDES) permit for the facility, an urchin fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*). The test is of short duration (20 minute exposure) and requires only a single effluent sample.

Five concentrations of effluent plus a control were tested. Following permit directions, the five concentrations were 0.175%, 0.35%, 0.7%, 1.4% and 2.8%. Dilutions of the effluent were made with natural seawater from our laboratory system, resulting in test solutions whose salinity was high enough to be compatible with the requirements of the test organisms.

Upon receipt, the following water quality parameters were measured in the sample:

Sample	pH	Temp[1]	D.O.	Conductivity[2]	Salinity	Alkalinity	Hardness	CL_2	NH_3
T-604003	--	°C	mg/L	µ/mhos/cm	‰	mg $CaCO_3$/L	mg $CaCO_3$/L	mg/L	mg/L
-01 MOA06TOX003	7.3	15.6	7.2	749	0.5	170	155	0.05	22.8

[1] During warming for test. [2] Specific conductance, corrected to 25°C

Method

The test method followed *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, August, 1995), and is briefly described below:

Eggs and sperm were obtained from gravid adult sea urchins by injection with 0.5M potassium chloride. Urchin broodstock was supplied by the Granite Canyon laboratory of UC Santa Cruz. Care was taken to avoid contact of eggs with sperm prior to test initiation. Sperm and eggs were diluted to appropriate concentrations with seawater, and aliquots of sperm were precisely pipetted into test chambers (test tubes) containing diluted effluent. After sperm had been in contact with the effluent precisely 20 minutes, aliquots of unfertilized eggs were added to the test chambers and fertilization was allowed to proceed for a second 20-minute period. At the end of the 20-minute fertilization period, 10% formalin was added to each test chamber to stop all biological activity. Test chambers were then examined microscopically to score the numbers of fertilized and unfertilized eggs. Four replicate test chambers were used for control (seawater only) exposures and for each dilution of test effluent. Test temperature was 12±1°C. The test met acceptability criteria; seawater controls achieved greater than 70% egg fertilization, there

was no fertilization in egg controls, %MSD was <25% relative to controls and final sperm stock density was <33,600,000 per mL.

Results

The results of the sea urchin fertilization bioassay are summarized in Appendix A, a printout generated by CETIS™, a statistical software program (Tidepool Scientific Software, McKinleyville, CA). Statistical analyses of these data show that there was no significant decrease in egg fertilization at any of the sample concentrations when compared with the seawater-only controls. Therefore, the NOEC for fertilization was ≥2.8%, the LOEC was >2.8% effluent, and the chronic toxicity units were <35.7 TUc. Appendix A also presents the results of the concurrent reference toxicant test in which copper was the toxicant to which the sperm were exposed. The EC_{25} for fertilization and copper was 18.4 ppb, which is within our laboratory control chart limits for this organism-toxicant combination and indicates that the test population was typically sensitive. All test acceptability criteria were met in both the effluent bioassay and the reference toxicant bioassay.

Discussion

This effluent produced no measurable toxicity (<35.7 TUc) to urchin fertilization.

Monthly monitoring data for April 2006 that includes daily flow and laboratory test results that were conducted concurrently with the WET testing for the Asplund WPCF are presented in Appendix C. Plant flow, chemical concentrations, and other physical measurements were found to be typical for the Asplund facility during the WET testing.

Appendix A

CETIS™ Reports

CETIS Test Summary

Report Date: 20 Apr-06 10:47 AM
Test Link: 06-7998-8908/604003SP01

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	06-2204-2372	Test Type:	Fertilization	Duration:	51m
Start Date:	19 Apr-06 01:07 PM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	19 Apr-06 01:58 PM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	19 Apr-06 01:07 PM	Brine:	Frozen Seawater		

Sample No:	05-5289-7363	Code:	604003-01	Client:	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	18 Apr-06 06:05 AM	Material:	Effluent	Project:	Point Woronzoff
Receive Date:	19 Apr-06 10:20 AM	Source:	KLI - Alaska		
Sample Age:	31h	Station:	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
07-1179-6861	Proportion Fertilized	2.8	> 2.8	N/A	8.60%	Steel Many-One Rank

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
07-5164-2475	Proportion Fertilized	5	1.647328	1.331712	2.025901	Linear Interpolation
		10	2.004938	1.622562	2.666663	
		15	2.362547	1.872337	N/A	
		20	2.720157	2.107146	N/A	
		25	> 2.8	N/A	N/A	
		40	> 2.8	N/A	N/A	
		50	> 2.8	N/A	N/A	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
07-1179-6861	Proportion Fertilized	Control Response	0.91313	0.7 - NL	Yes	Passes acceptability criteria
07-5164-2475	Proportion Fertilized	Control Response	0.91313	0.7 - NL	Yes	Passes acceptability criteria
07-1179-6861	Proportion Fertilized	PMSD	0.086	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.91313	0.71845	0.99010	0.06505	0.13009	14.25%
0.175		4	0.99781	0.99123	1.00000	0.00219	0.00439	0.44%
0.35		4	0.99806	0.99225	1.00000	0.00194	0.00388	0.39%
0.7		4	0.99505	0.99000	1.00000	0.00286	0.00572	0.57%
1.4		4	0.96096	0.94000	0.98077	0.00833	0.01666	1.73%
2.8		4	0.76991	0.68027	0.88430	0.04418	0.08836	11.48%

Proportion Fertilized Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.71845	0.97521	0.99010	0.96875
0.175		1.00000	0.99123	1.00000	1.00000
0.35		1.00000	1.00000	0.99225	1.00000
0.7		0.99020	0.99000	1.00000	1.00000
1.4		0.96154	0.98077	0.96154	0.94000
2.8		0.88430	0.78916	0.72593	0.68027

CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	06-2204-2372	**Test Type:**	Fertilization	**Duration:**	51m
Start Date:	19 Apr-06 01:07 PM	**Protocol:**	EPA/600/R-95/136 (1995)	**Species:**	Strongylocentrotus purpuratus
Ending Date:	19 Apr-06 01:58 PM	**Dil Water:**	Laboratory Seawater	**Source:**	Granite Canyon Lab
Setup Date:	19 Apr-06 01:07 PM	**Brine:**	Frozen Seawater		

Sample No:	05-5289-7363	**Code:**	604003-01	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	18 Apr-06 06:05 AM	**Material:**	Effluent	**Project:**	Point Woronzoff
Receive Date:	19 Apr-06 10:20 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Original Sample Measurements

Sample Code	Parameter	Measurement
604003-01	Alkalinity (CaCO3)-mg/L	170
	Hardness (CaCO3)-mg/L	155
	Total Ammonia (N)-mg/L	
	Total Residual Chlorine-mg/L	0.05

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	7.9	7.9	7.9			
0.175		1	7.9	7.9	7.9			
0.35		1	7.9	7.9	7.9			
0.7		1	7.9	7.9	7.9			
1.4		1	7.9	7.9	7.9			
2.8		1	7.9	7.9	7.9			
Pooled		6	7.9	7.9	7.9			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	7.6	7.6	7.6			
0.175		1	7.7	7.7	7.7			
0.35		1	7.8	7.8	7.8			
0.7		1	7.8	7.8	7.8			
1.4		1	7.9	7.9	7.9			
2.8		1	7.9	7.9	7.9			
Pooled		6	7.783	7.6	7.9			

Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.5	32.5	32.5			
0.175		1	32.2	32.2	32.2			
0.35		1	32	32	32			
0.7		1	31.9	31.9	31.9			
1.4		1	31.8	31.8	31.8			
2.8		1	31.2	31.2	31.2			
Pooled		6	31.933	31.2	32.5			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
0.175		1	12	12	12			
0.35		1	12	12	12			
0.7		1	12	12	12			
1.4		1	12	12	12			
2.8		1	12	12	12			
Pooled		6	12	12	12			

CETIS Measurement Detail

Dissolved Oxygen-mg/L		
Conc-%	Control Type	1
0	Dilution Water	7.9
0.175		7.9
0.35		7.9
0.7		7.9
1.4		7.9
2.8		7.9

pH		
Conc-%	Control Type	1
0	Dilution Water	7.6
0.175		7.7
0.35		7.8
0.7		7.8
1.4		7.9
2.8		7.9

Salinity-ppt		
Conc-%	Control Type	1
0	Dilution Water	32.5
0.175		32.2
0.35		32
0.7		31.9
1.4		31.8
2.8		31.2

Temperature-°C		
Conc-%	Control Type	1
0	Dilution Water	12
0.175		12
0.35		12
0.7		12
1.4		12
2.8		12

CETIS Test Summary

Report Date: 20 Apr-06 10:46 AM
Test Link: 09-5721-6048/604003SP-R

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	06-2204-2372	Test Type:	Fertilization	Duration:	51m
Start Date:	19 Apr-06 01:07 PM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	19 Apr-06 01:58 PM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	19 Apr-06 01:07 PM	Brine:	Frozen Seawater		

Sample No:	05-8682-9267	Code:	604003-R	Client:	Internal Lab
Sample Date:	19 Apr-06 01:07 PM	Material:	Copper sulfate	Project:	Reference Toxicant
Receive Date:	19 Apr-06 01:07 PM	Source:	Reference Toxicant		
Sample Age:	N/A	Station:			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
04-1705-8278	Proportion Fertilized	9	18	12.728	7.48%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
16-0954-8776	Proportion Fertilized	5	5.877522	1.996917	13.67473	Linear Interpolation
		10	10.32279	4.853186	18.56395	
		15	13.1448	8.871947	22.43148	
		20	15.96681	10.21779	22.66245	
		25	18.40516	11.34203	23.1216	
		40	22.75353	16.53293	26.27903	
		50	25.65245	20.88836	28.3752	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
04-1705-8278	Proportion Fertilized	Control Response	0.9751	0.7 - NL	Yes	Passes acceptability criteria
16-0954-8776	Proportion Fertilized	Control Response	0.9751	0.7 - NL	Yes	Passes acceptability criteria
04-1705-8278	Proportion Fertilized	PMSD	0.07483	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.97510	0.95902	0.99010	0.00664	0.01329	1.36%
9		4	0.90044	0.83916	0.97087	0.03130	0.06260	6.95%
18		4	0.74495	0.54000	0.89286	0.07400	0.14800	19.87%
36		4	0.13949	0.12281	0.15966	0.00759	0.01518	10.88%
72		4	0.01649	0.00000	0.05607	0.01340	0.02680	162.46
144		4	0.00728	0.00000	0.02913	0.00728	0.01456	200.00

Proportion Fertilized Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.99010	0.98039	0.95902	0.97087
9		0.97087	0.85714	0.93458	0.83916
18		0.78358	0.89286	0.76336	0.54000
36		0.12281	0.13793	0.15966	0.13757
72		0.00990	0.05607	0.00000	0.00000
144		0.00000	0.00000	0.02913	0.00000

Appendix B

Summary of Test Conditions

Table B-1. Sea Urchin Bioassay

Test ID:	T604003
Test Method:	EPA/600/R-95/036 (1005.0)
Test Type:	Static
Test Endpoint:	Fertilization
Test Duration:	20 minute exposure
Temperature:	12 ± 1°C
Start:	19 April 2006
Finish:	19 April 2006
Test Volume:	5 mL
Test Material:	POTW Effluent
Test Concentrations:	2.8%, 1.4%, 0.7%, 0.35%, 0.175%, and 0%(control)
# Replicates:	4
Test Species:	*Strongylocentrotus purpuratus*
Source:	Granite Canyon Labs - MPSL
Age:	Gametes
Dilution / Control Water:	1.0 micron-filtered laboratory seawater

Appendix C

Monthly Monitoring Report – April 2006
John M. Asplund Water Pollution Control Facility

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

April 2006

		Flow	BOD5							TS		TVS		Suspended Solids (TSS)							VSS		TDS	
		MGD	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L
			24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	24 HC	24 HC	24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	CALC	CALC
Date	Day		I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE	I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE
1-Apr	Sat	29.513																						
2-Apr	Sun	29.266																						
3-Apr	Mon	27.138	178	130		27	40287	29423		620	550	302	184	200	52		74	45266	11769		156	34	420	498
4-Apr	Tue	28.455	224	148		34	53158	35123		645	566	335	212	232	60		74	55057	14239		174	38	413	506
5-Apr	Wed	30.803																						
6-Apr	Thu	29.518	220	132		40	54160	32496		656	548	360	188	248	60		76	61053	14771		196	42	408	488
7-Apr	Fri	29.769																						
8-Apr	Sat	30.275	168	124	134	26	42419	31309	32088	582	548	278	162	168	50	56	70	42419	12625	13351	134	38	414	498
9-Apr	Sun	32.049																						
10-Apr	Mon	32.336	168	116		31	45307	31283		600	540	310	210	186	50		73	50161	13484		150	38	414	490
11-Apr	Tue	32.336	208	131		37	56094	35328		854	702	394	188	250	62		75	67421	16720		196	36	604	640
12-Apr	Wed	28.662	198	138		30	47330	32988		642	578	332	208	224	46		79	53545	10996		182	30	418	532
13-Apr	Thu	29.060	282	140		50	68346	33930		746	624	440	248	246	62		75	59621	15026		204	46	500	562
14-Apr	Fri	28.841																						
15-Apr	Sat	28.327			131				33382							55				14057				
16-Apr	Sun	27.688																						
17-Apr	Mon	27.772	249	165		34	57673	38217		642	584	350	220	226	70		69	52346	16213		186	52	416	514
18-Apr	Tue	27.919	248	154		38	57745	35858		614	570	308	172	218	50		77	50760	11642		178	38	396	520
19-Apr	Wed	27.824	195	124		36	45250	28774		644	592	332	200	214	46		79	49659	10674		178	38	430	546
20-Apr	Thu	27.618	211	135		36	48600	31095		672	580	368	184	234	60		74	53898	13820		202	46	438	520
21-Apr	Fri	27.859																						
22-Apr	Sat	27.675			145				33486							57				13087				
23-Apr	Sun	28.169																						
24-Apr	Mon	28.581	215	146		32	51249	34801		644	596	320	222	242	56		77	57684	13348		192	38	402	540
25-Apr	Tue	28.433	205	129		37	48612	30590		636	574	322	190	206	48		77	48849	11382		160	36	430	526
26-Apr	Wed	27.883	237	142		40	55113	33021		670	556	384	222	224	58		74	52090	13488		184	44	446	498
27-Apr	Thu	27.713	198	137		31	45763	31664		614	600	338	234	194	54		72	44839	12481		162	42	420	546
28-Apr	Fri	27.509																						
29-Apr	Sat	26.963			139				32519							54				12675				
30-Apr	Sun	27.353																						
MIN		26.963	168	116	131	26	40287	28774	32088	582	540	278	162	168	46	54	69	42419	10674	12675	134	30	396	488
MAX		32.336	282	165	145	50	68346	38217	33486	854	702	440	248	250	70	57	79	67421	16720	14057	204	52	604	640
AVE		28.777	213	137			51069	32869		655	582	342	203	220	55			52792	13292		177	40	436	527
						36											75							

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

April 2006

		Parameter	Temp		pH		D O	Total Ammonia NH3 - N	Chloride	Total Chlorine Residual			Fecal Coli	Sludge Cake		Filtrate
		Units	deg C	deg C	units	units	mg/L	mg/L	mg/L	mg/L	mg/L		FC/100 mL	% TS	% TVS	mg/L SS
		MDL						0.03					2			
		Sample Type	G	G	G	G	G	24 HC	24 HC	8 G/DAY AVE	G		G	24 HC (3 G)		24 HC (48 G)
Date	Day	Sample Point	I	FE	I	FE	FE	FE	I	FE	FE		FE	Discharge Belt		Belt press
1-Apr	Sat									0.15				31.5	83.5	1180
2-Apr	Sun		9.5	9.5	7.1	6.9				0.22				27.0	78.4	1960
3-Apr	Mon		10.3	10.0	7.3	7.1	5.2		65	0.25				32.5	79.2	1560
4-Apr	Tue		10.4	10.2	7.4	7.1	3.4		60	0.31				33.3	81.4	1030
5-Apr	Wed									0.36				29.4	81.8	2710
6-Apr	Thu						5.5		60	0.51	0.13		54	31.9	78.7	1210
7-Apr	Fri		10.7	10.9	7.1	6.7	3.6			0.72	0.19		33	32.2	77.5	1310
8-Apr	Sat								56	1.09	1.00	<	2	31.2	78.1	1560
9-Apr	Sun		10.0	10.3	7.7	7.3				0.95	0.71		170	32.2	76.0	1090
10-Apr	Mon								59	0.96	0.72		13	29.2	75.5	5820
11-Apr	Tue		10.8	10.7	7.4	7.2	5.7		62	0.65	0.12		220	29.8	80.7	940
12-Apr	Wed		10.6	10.3	7.4	7.3	6.2		59	0.54				32.7	80.7	3560
13-Apr	Thu		10.9	10.8	7.4	7.2	5.1		58	0.30				32.3	83.5	3290
14-Apr	Fri									0.21				33.6	82.8	1370
15-Apr	Sat						5.6			0.29				34.4	82.6	1520
16-Apr	Sun		10.4	10.3	7.3	7.2				0.08				34.0	76.7	1270
17-Apr	Mon		10.6	11.1	7.1	7.0	5.6		53	0.39	0.15		330	33.0	79.3	2280
18-Apr	Tue								55	0.41	0.30		170	32.9	79.7	2110
19-Apr	Wed		10.2	10.7	7.0	6.6	2.2		55	0.17	0.21		110	32.0	80.3	3810
20-Apr	Thu		10.8	10.9	7.3	7.1	5.6		60	0.65				33.4	81.6	2420
21-Apr	Fri						3.7			0.36				27.6	84.5	2320
22-Apr	Sat									0.18				30.8	80.9	2610
23-Apr	Sun		10.1	9.9	7.3	7.2				0.25				33.5	81.3	2640
24-Apr	Mon		10.7	10.9	7.3	7.2	6.0		53	0.21	0.32		13	32.3	81.7	2780
25-Apr	Tue		10.5	10.8	7.4	7.1	3.8		54	0.18	0.10		49	33.1	78.3	2870
26-Apr	Wed		10.4	10.8	7.3	7.0	5.3		60	0.31	0.18		8	29.5	80.2	3740
27-Apr	Thu								53	0.38				31.1	80.0	2990
28-Apr	Fri						1.7	19.88		0.22				31.3	81.3	4570
29-Apr	Sat									0.24				31.5	82.5	4640
30-Apr	Sun		10.7	11.3	7.4	7.2				0.22				30.3	81.6	3780
MIN	MIN		9.5	9.5	7.0	6.6	1.7	19.9	53	0.08	0.10	<	2	27.0	75.5	940
MAX	MAX		10.9	11.3	7.7	7.3	6.2	19.9	65	1.09	1.00		330	34.4	84.5	5820
AVE	AVE		10.4	10.6			4.6	19.9	58	0.39	0.34		44	31.7	80.3	2498

April 2006

COMMENTS

Report Prepared By: Mark Spano, Water Quality Supervisor

Report Checked By: Paul Smith, Water Quality Tech II

Abbreviations

AVE	arithmetic average	ND	not detected	% REM	percent removal, calculated from daily concentrations
	(except Fecal Coli which is a geometric mean)	MGD	million gallons per day	%REM CALCTD	average percent removal, calculated from monthly
BOD5	biochemical oxygen demand, 5 day test	mg/L	milligrams per liter		average concentrations; reported on DMR per
CALCTD	calculated	mg/kg	milligrams per kilogram of dry weight		EPA guidelines
DO	dissolved oxygen	MPN	most probable number	S	sludge cake
deg C	degree(s) Celsius	NR	no analytical results or unusable data due	TDS	total dissolved solids
E	estimated result		to lab error or failure to meet quality control	TS	total solids
FE	final effluent		criteria	TSS	total suspended solids
G	grab	NT	not tested	TVS	total volatile solids
I	influent			VSS	volatile suspended solids
LWA	loading, weekly average			24 HC	24 hour flow composite
				24 HC (3G)	24 hour composite of one grab per each eight hour shift

Comments, Footnotes:

P.1: The final effluent autosampler is normally taken off line on Saturdays, Mondays, and Wednesdays for line cleaning for approximately 1.5 hours each time; the composite samples for BODs, TSS, etc. are therefore slightly less than a 24HC on these days. 4/11/06 influent composite - influent autosampler malfunctioned and operators hand time-composited from about 1800 on.

P.2: Missed three chlorine residual tests on 4/5/06 (no tests taken between 0600 and 1800). The sample lift pump was replaced and no effluent sample was available during this maintenance work. Missed one chlorine residual test on 4/7/06 (no tests taken between 0554 and 1038). Sample pump was being worked on and no effuent sample was available.

Wastewater metals, cyanide, and oil & grease analyses are conducted twice per year during toxic pollutant testing. Results are no longer reported on the MMR; they are filed in the toxic pollutant folders in the file room and reported in the annual report to EPA. Metals analyses on sludge for 40 CFR Part 503 are conducted periodically but are no longer reported on the MMR. Results are reported to EPA each year on February 19 on reports found in W:Wastewater\Asplund WWTF\Reports\Part503\.

Permit Exceedances:

T-604003

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 W. 7th Ave. Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178	
Required Completion Date: ASAP	P.O. #:AK06-1004	KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Strongylocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently. Please see attached permit pages for further information, including reporting requirements.

	Preservative: None (4° C)	**Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX003	1	4/17-18/06	0550-0605	In Tact	604003-01

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	4/18/06 1030	FEDEX	Joshua Blatt	4-19-06/1020
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): Tim Mayer/

APPENDIX C

Whole Effluent Toxicity Testing

C3 Third Quarter Testing

ToxScan, Inc.

ToxScan Inc.
42 Hangar Way • Watsonville, CA 95076-2404 • (831) 724-4522 • FAX (831) 724-3188

John M. Asplund Water Pollution Control Facility
Chronic Toxicity Testing – 3rd Quarter 2006
NPDES Permit No. AK002255-1

Urchin Chronic Bioassay Results:
Purple Sea Urchin (*Strongylocentrotus purpuratus*)

SAMPLE RECEIVED:

17 August 2006
(KLI Project 516.03)

T608005

Prepared for:

KINNETIC LABORATORIES, INC.
Anchorage, Alaska

Prepared by:

TOXSCAN, INC.
BIOASSAY DIVISION
Watsonville, California

September 2006

Introduction

One effluent sample from the Municipality of Anchorage's John M. Asplund ("Point Woronzof") Water Pollution Control Facility (WPCF) was collected by Kinnetic Laboratories, Inc. personnel and shipped via overnight courier to ToxScan's laboratory in Watsonville, CA for whole effluent toxicity (WET) testing. The sample was collected as a 24-hr flow-based composite final effluent sample on 15 - 16 August 2006. The sample arrived at ToxScan on 17 August, and was assigned the ToxScan laboratory number **T608005**. The bioassay was initiated on the day after it was received.

One short-term chronic toxicity test was requested as required by the National Pollutant Discharge Elimination System (NPDES) permit for the facility, an urchin fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*). The test is of short duration (20 minute exposure) and requires only a single effluent sample.

Five concentrations of effluent plus a control were tested. Following permit directions, the five concentrations were 0.175%, 0.35%, 0.7%, 1.4% and 2.8%. Dilutions of the effluent were made with natural seawater from our laboratory system, resulting in test solutions whose salinity was high enough to be compatible with the requirements of the test organisms.

Upon receipt, the following water quality parameters were measured in each sample:

Sample	pH	Temp[1]	D.O.	Conductivity[2]	Salinity	Alkalinity	Hardness	CL_2	NH_3
T-608005	–	°C	mg/L	µ/mhos/cm	‰	mg $CaCO_3$/L	mg $CaCO_3$/L	mg/L	mg/L
-01 MOA06TOX004	7.7	11.2	10.2	676	0.5	176	156	<0.1	20.5

[1] During warming for test. [2] Specific conductance, corrected to 25°C

Method

The test method followed *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, August, 1995), and is briefly described below:

Eggs and sperm were obtained from gravid adult sea urchins by injection with 0.5M potassium chloride. Urchin broodstock was supplied by the Granite Canyon laboratory of UC Santa Cruz. Care was taken to avoid contact of eggs with sperm prior to test initiation. Sperm and eggs were diluted to appropriate concentrations with seawater, and aliquots of sperm were precisely pipetted into test chambers (test tubes) containing diluted effluent. After sperm had been in contact with the effluent precisely 20 minutes, aliquots of unfertilized eggs were added to the test chambers and fertilization was allowed to proceed for a second 20-minute period. At the end of the 20-minute fertilization period, 10% formalin was added to each test chamber to stop all biological activity. Test chambers were then examined microscopically to score the numbers of fertilized and unfertilized eggs. Four replicate test chambers were used for control (seawater only) exposures and for each dilution of test effluent. Test temperature was 12±1°C. The test met acceptability criteria; seawater controls achieved greater than 70% egg fertilization, there was no fertilization in egg controls, %MSD was <25% relative to controls and final sperm stock density was <33,600,000 per mL.

Results

The results of the sea urchin fertilization bioassay are summarized in Appendix A, a printout generated by CETIS™, a statistical software program (Tidepool Scientific Software, McKinleyville, CA). Statistical analyses of these data show that there was a significant decrease in egg fertilization at the 2.8% sample concentration when compared with the seawater-only controls. The NOEC for fertilization was 1.4%, the LOEC was 2.8% and the chronic toxicity units were 71.4 TUc. Appendix A also presents the results of the concurrent reference toxicant test in which copper was the toxicant to which the sperm were exposed. The EC_{25} for fertilization and copper was 13.4 ppb, which is within our laboratory control chart limits for this organism-toxicant combination and indicates that the test population was typically sensitive. A summary of bioassay test conditions is presented in Appendix B. All test acceptability criteria were met in both the effluent bioassay and the reference toxicant bioassay.

Discussion

This effluent produced a toxic response at the highest effluent concentration. The toxic response was within Permit acceptance limits with chronic toxicity units of ≤71.4 TUc to urchin fertilization.

Monthly monitoring data for August 2006 that includes daily flow and laboratory test results that were conducted concurrently with the WET testing for the Asplund WPCF are presented in Appendix C. Plant flow, chemical concentrations, and other physical measurements were found to be typical for the Asplund facility during the WET testing.

Appendix A

CETIS™ Reports

CETIS Test Summary

Report Date: 29 Aug-06 10:30 AM
Test Link: 16-9854-9497/608005SP01

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	14-7540-4903	Test Type:	Fertilization	Duration:	45m
Start Date:	18 Aug-06 11:12 AM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	18 Aug-06 11:57 AM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	18 Aug-06 11:12 AM	Brine:	Not Applicable		

Sample No:	10-2655-1251	Code:	608005	Client:	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	16 Aug-06 08:00 AM	Material:	Effluent	Project:	Point Woronzoff
Receive Date:	17 Aug-06 10:23 AM	Source:	KLI - Alaska		
Sample Age:	51h	Station:	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
06-3872-8614	Proportion Fertilized	1.4	2.8	1.9799	13.38%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
03-8044-1442	Proportion Fertilized	10	1.369795	1.229617	1.488553	Linear Regression
		15	1.490286	1.355052	1.604748	
		20	1.593563	1.463286	1.704139	
		25	1.687851	1.562463	1.794923	
		40	1.950928	1.839067	2.050325	
		50	2.128553	2.023415	2.226772	
05-0143-0701	Proportion Fertilized	5	0.7430615	0.4444196	1.837616	Linear Interpolation
		10	1.213363	0.5904336	1.705623	
		15	1.462949	0.9713249	1.703055	
		20	1.567315	1.336085	1.787618	
		25	1.671681	1.460358	1.873566	
		40	1.984779	1.822663	2.12732	
		50	2.193511	2.059361	2.301868	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
03-8044-1442	Proportion Fertilized	Control Response	0.76680	0.7 - NL	Yes	Passes acceptability criteria
05-0143-0701	Proportion Fertilized	Control Response	0.76680	0.7 - NL	Yes	Passes acceptability criteria
06-3872-8614	Proportion Fertilized	Control Response	0.76680	0.7 - NL	Yes	Passes acceptability criteria
06-3872-8614	Proportion Fertilized	PMSD	0.13382	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.76680	0.70536	0.83478	0.03394	0.06789	8.85%
0.175		4	0.86992	0.80952	0.91603	0.02417	0.04835	5.56%
0.35		4	0.88086	0.82407	0.92157	0.02133	0.04265	4.84%
0.7		4	0.80108	0.76800	0.85256	0.01811	0.03623	4.52%
1.4		4	0.73862	0.67000	0.85470	0.04040	0.08079	10.94%
2.8		4	0.17576	0.14530	0.20000	0.01132	0.02265	12.89%

Proportion Fertilized Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.83478	0.81553	0.71154	0.70536
0.175		0.90090	0.91603	0.85321	0.80952
0.35		0.82407	0.87395	0.90385	0.92157
0.7		0.78846	0.76800	0.79528	0.85256
1.4		0.70323	0.67000	0.85470	0.72656
2.8		0.18033	0.20000	0.17742	0.14530

CETIS Analysis Detail

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Comparison	16-9854-9497	16-9854-9497	29 Aug-06 10:28 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		1.4	2.8	71.4286	1.9799	13.38%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		0.175	-2.7924	2.40711	0.9999	0.11728	Non-Significant Effect
		0.35	-3.1215	2.40711	1.0000	0.11728	Non-Significant Effect
		0.7	-0.8168	2.40711	0.9720	0.11728	Non-Significant Effect
		1.4	0.64709	2.40711	0.5821	0.11728	Non-Significant Effect
		2.8	13.0934	2.40711	0.0000	0.11728	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	1.727074	0.3454147	5	72.75	0.00000	Significant Effect
Error	0.0854637	0.004748	18			
Total	1.81253732	0.3501627	23			

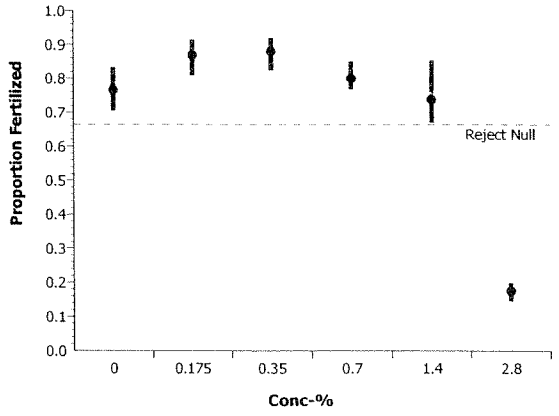
ANOVA Assumptions

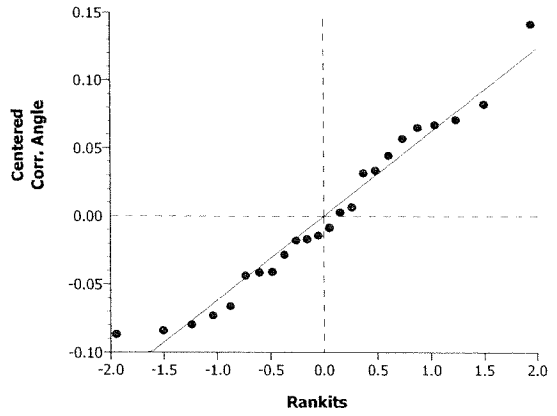
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	3.87015	15.08627	0.56826	Equal Variances
Distribution	Shapiro-Wilk W	0.95770		0.39393	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	4	0.76680	0.70536	0.83478	0.06789	1.06998	0.99702	1.15221	0.08103
0.175		4	0.86992	0.80952	0.91603	0.04835	1.20603	1.11916	1.27680	0.07152
0.35		4	0.88086	0.82407	0.92157	0.04265	1.22207	1.13797	1.28694	0.06481
0.7		4	0.80108	0.76800	0.85256	0.03623	1.10977	1.06824	1.17670	0.04677
1.4		4	0.73862	0.67000	0.85470	0.08079	1.03845	0.95886	1.17972	0.09752
2.8		4	0.17576	0.14530	0.20000	0.02265	0.43202	0.39107	0.46365	0.03015

Graphics





CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	14-7540-4903	Test Type:	Fertilization	Duration:	45m
Start Date:	18 Aug-06 11:12 AM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	18 Aug-06 11:57 AM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	18 Aug-06 11:12 AM	Brine:	Not Applicable		

Sample No:	10-2655-1251	Code:	608005	Client:	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	16 Aug-06 08:00 AM	Material:	Effluent	Project:	Point Woronzoff
Receive Date:	17 Aug-06 10:23 AM	Source:	KLI - Alaska		
Sample Age:	51h	Station:	MOA***		

Original Sample Measurements

Sample Code	Parameter	Measurement
608005	Alkalinity (CaCO3)-mg/L	176
	Hardness (CaCO3)-mg/L	156
	Total Ammonia (N)-mg/L	
	Total Residual Chlorine-mg/L	0.04

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.6	8.6	8.6			
0.175		1	8.6	8.6	8.6			
0.35		1	8.6	8.6	8.6			
0.7		1	8.6	8.6	8.6			
1.4		1	8.6	8.6	8.6			
2.8		1	8.6	8.6	8.6			
Pooled		6	8.6	8.6	8.6			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.1	8.1	8.1			
0.175		1	8.1	8.1	8.1			
0.35		1	8.1	8.1	8.1			
0.7		1	8.1	8.1	8.1			
1.4		1	8.1	8.1	8.1			
2.8		1	8	8	8			
Pooled		6	8.083	8	8.1			

Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	34	34	34			
0.175		1	34	34	34			
0.35		1	34	34	34			
0.7		1	34	34	34			
1.4		1	33.9	33.9	33.9			
2.8		1	33.9	33.9	33.9			
Pooled		6	33.967	33.9	34			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
0.175		1	12	12	12			
0.35		1	12	12	12			
0.7		1	12	12	12			
1.4		1	12	12	12			
2.8		1	12	12	12			
Pooled		6	12	12	12			

CETIS Measurement Detail

Dissolved Oxygen-mg/L		
Conc-%	Control Type	1
0	Dilution Water	8.6
0.175		8.6
0.35		8.6
0.7		8.6
1.4		8.6
2.8		8.6

pH		
Conc-%	Control Type	1
0	Dilution Water	8.1
0.175		8.1
0.35		8.1
0.7		8.1
1.4		8.1
2.8		8

Salinity-ppt		
Conc-%	Control Type	1
0	Dilution Water	34
0.175		34
0.35		34
0.7		34
1.4		33.9
2.8		33.9

Temperature-°C		
Conc-%	Control Type	1
0	Dilution Water	12
0.175		12
0.35		12
0.7		12
1.4		12
2.8		12

CETIS Test Summary

Report Date: 29 Aug-06 10:29 AM
Test Link: 09-0459-0563/608005SP-R

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	14-7540-4903	Test Type:	Fertilization	Duration:	45m
Start Date:	18 Aug-06 11:12 AM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	18 Aug-06 11:57 AM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	18 Aug-06 11:12 AM	Brine:	Not Applicable		

Sample No:	07-6978-7248	Code:	608005	Client:	Internal Lab
Sample Date:	18 Aug-06 11:12 AM	Material:	Copper sulfate	Project:	Reference Toxicant
Receive Date:	18 Aug-06 11:12 AM	Source:	Reference Toxicant		
Sample Age:	N/A	Station:			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
08-1088-0943	Proportion Fertilized	< 9	9	N/A	7.30%	Bonferroni Adj t

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
06-7728-4759	Proportion Fertilized	5	4.075121	2.069306	7.876885	Linear Interpolation
		10	8.150242	4.138612	10.88028	
		15	10.24975	7.393289	11.90797	
		20	11.82875	9.867083	13.42184	
		25	13.40776	11.59736	15.1913	
		40	18.37027	15.04348	26.68572	
		50	26.44695	18.47749	50.26625	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
06-7728-4759	Proportion Fertilized	Control Response	0.96932	0.7 - NL	Yes	Passes acceptability criteria
08-1088-0943	Proportion Fertilized	Control Response	0.96932	0.7 - NL	Yes	Passes acceptability criteria
08-1088-0943	Proportion Fertilized	PMSD	0.07302	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.96932	0.94286	0.99254	0.01317	0.02633	2.72%
9		4	0.86228	0.80198	0.91346	0.02360	0.04720	5.47%
18		4	0.58603	0.48544	0.63846	0.03473	0.06945	11.85%
36		4	0.37001	0.24812	0.56190	0.09711	0.16820	45.46%
72		4	0.04201	0.00990	0.09091	0.01816	0.03631	86.44%
144		4	0.00248	0.00000	0.00990	0.00248	0.00495	200.00

Proportion Fertilized Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.94286	0.99254	0.99138	0.95050
9		0.88073	0.80198	0.85294	0.91346
18		0.62500	0.63846	0.59524	0.48544
36		0.24812	0.56190	0.30000	Missing
72		0.09091	0.04762	0.00990	0.01961
144		0.00000	0.00000	0.00990	0.00000

CETIS Analysis Detail

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Comparison	09-0459-0563	09-0459-0563	29 Aug-06 10:28 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Bonferroni Adj t	C > T	Angular (Corrected)		<9	9		N/A	7.30%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		9	3.39128	2.56693	0.0087	0.16287	Significant Effect
		18	8.46526	2.56693	0.0000	0.16287	Significant Effect
		36	11.0892	2.56693	0.0000	0.17592	Significant Effect
		72	19.1945	2.56693	0.0000	0.16287	Significant Effect
		144	21.2304	2.56693	0.0000	0.16287	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	5.751458	1.150292	5	142.86	0.00000	Significant Effect
Error	0.1368783	0.0080517	17			
Total	5.88833643	1.1583432	22			

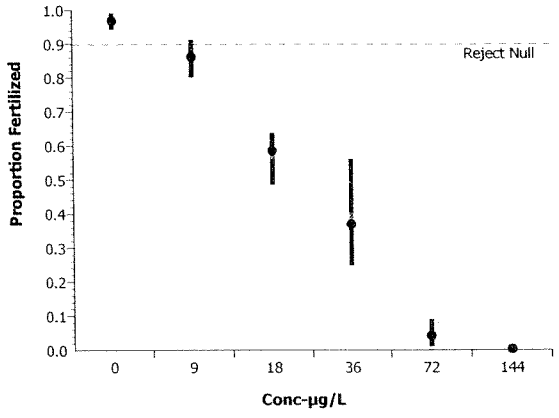
ANOVA Assumptions

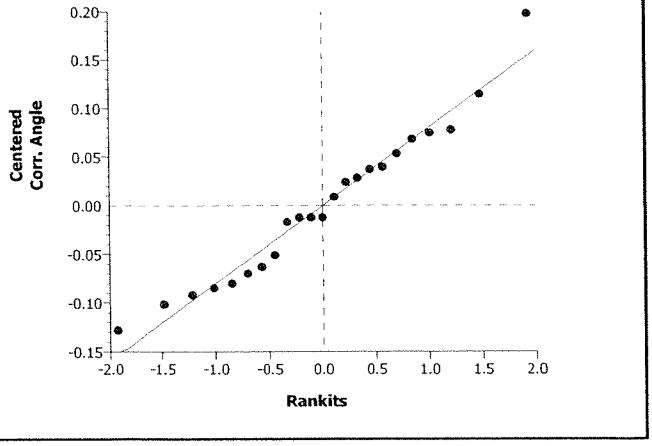
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	7.46675	15.08627	0.18818	Equal Variances
Distribution	Shapiro-Wilk W	0.96770		0.63405	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	4	0.96932	0.94286	0.99254	0.02633	1.40949	1.32941	1.48430	0.08298
9		4	0.86228	0.80198	0.91346	0.04720	1.19431	1.10963	1.27220	0.06856
18		4	0.58603	0.48544	0.63846	0.06945	0.87237	0.77083	0.92569	0.07019
36		3	0.37001	0.24812	0.56190	0.16820	0.64951	0.52143	0.84746	0.17389
72		4	0.04201	0.00990	0.09091	0.03631	0.19161	0.09967	0.30628	0.09132
144		4	0.00248	0.00000	0.00990	0.00495	0.06243	0.05002	0.09967	0.02482

Graphics





CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	14-7540-4903	Test Type:	Fertilization	Duration:	45m
Start Date:	18 Aug-06 11:12 AM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	18 Aug-06 11:57 AM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	18 Aug-06 11:12 AM	Brine:	Not Applicable		

Sample No:	07-6978-7248	Code:	608005	Client:	Internal Lab
Sample Date:	18 Aug-06 11:12 AM	Material:	Copper sulfate	Project:	Reference Toxicant
Receive Date:	18 Aug-06 11:12 AM	Source:	Reference Toxicant		
Sample Age:	N/A	Station:			

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.6	8.6	8.6			
9		1	8.6	8.6	8.6			
18		1	8.6	8.6	8.6			
36		1	8.6	8.6	8.6			
72		1	8.7	8.7	8.7			
144		1	8.7	8.7	8.7			
Pooled		6	8.633	8.6	8.7			

pH

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.1	8.1	8.1			
9		1	8.1	8.1	8.1			
18		1	8.1	8.1	8.1			
36		1	8.1	8.1	8.1			
72		1	8.1	8.1	8.1			
144		1	8.1	8.1	8.1			
Pooled		6	8.1	8.1	8.1			

Salinity-ppt

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	34	34	34			
9		1	34	34	34			
18		1	34	34	34			
36		1	34	34	34			
72		1	34	34	34			
144		1	34	34	34			
Pooled		6	34	34	34			

Temperature-°C

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
9		1	12	12	12			
18		1	12	12	12			
36		1	12	12	12			
72		1	12	12	12			
144		1	12	12	12			
Pooled		6	12	12	12			

CETIS Measurement Detail

Dissolved Oxygen-mg/L		
Conc-µg/L	Control Type	1
0	Dilution Water	8.6
9		8.6
18		8.6
36		8.6
72		8.7
144		8.7

pH		
Conc-µg/L	Control Type	1
0	Dilution Water	8.1
9		8.1
18		8.1
36		8.1
72		8.1
144		8.1

Salinity-ppt		
Conc-µg/L	Control Type	1
0	Dilution Water	34
9		34
18		34
36		34
72		34
144		34

Temperature-°C		
Conc-µg/L	Control Type	1
0	Dilution Water	12
9		12
18		12
36		12
72		12
144		12

Appendix B

Summary of Test Conditions

Table B-1. Sea Urchin Bioassay

Test ID:	T608005
Test Method:	EPA/600/R-95/036 (1005.0)
Test Type:	Static
Test Endpoint:	Fertilization
Test Duration:	20 minute exposure
Temperature:	12 ± 1°C
Start:	18 August 2006
Finish:	18 August 2006
Test Volume:	5 mL
Test Material:	POTW Effluent
Test Concentrations:	2.8%, 1.4%, 0.7%, 0.35%, 0.175%, and 0% (control)
# Replicates:	4
Test Species:	*Strongylocentrotus purpuratus*
Source:	Granite Canyon Labs - MPSL
Age:	Gametes
Dilution / Control Water:	1.0 micron-filtered laboratory seawater

Appendix C

Monthly Monitoring Report – August 2006
John M. Asplund Water Pollution Control Facility

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

August 2006

		Flow	BOD5							TS		TVS		Suspended Solids (TSS)							VSS		TDS	
		MGD	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L
			24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	24 HC	24 HC	24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	CALC	CALC
Date	Day		I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE	I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE
1-Aug	Tue	26.065	229	146		36	49781	31738		670	646	376	224	244	56		77	53041	12173		204	40	426	590
2-Aug	Wed	26.741	237	151		36	52856	33676		698	666	400	238	254	54		79	56647	12043		214	44	444	612
3-Aug	Thu	26.700	284	165		42	63241	36742		704	664	406	242	344	54		84	76601	12025		304	46	360	610
4-Aug	Fri	26.619																						
5-Aug	Sat	25.624			154				34052							55				12080				
6-Aug	Sun	26.709																						
7-Aug	Mon	27.256	248	149		40	56374	33870		702	666	390	232	260	50		81	59102	11366		216	34	442	616
8-Aug	Tue	26.425	257	166		35	56639	36584		682	678	352	222	256	54		79	56418	11901		216	38	426	624
9-Aug	Wed	26.854	283	196		31	63381	43897		732	752	428	294	264	44		83	59126	9854		224	36	468	708
10-Aug	Thu	26.747	255	164		36	56883	36583		646	666	326	200	248	72		71	55321	16061		214	58	398	594
11-Aug	Fri	30.008																						
12-Aug	Sat	27.186			169				37733							55				12295				
13-Aug	Sun	27.365																						
14-Aug	Mon	29.980	206	119		42	51507	29754		622	642	340	218	226	56		75	56508	14002		184	38	396	586
15-Aug	Tue	32.027	189	114		40	50483	30450		568	580	278	186	206	50		76	55024	13355		174	32	362	530
16-Aug	Wed	30.963	201	132		34	51905	34087		636	620	352	204	236	60		75	60943	15494		200	46	400	560
17-Aug	Thu	30.819	256	132		48	65800	33928		626	612	298	188	236	66		72	60659	16964		186	44	390	546
18-Aug	Fri	37.747																						
19-Aug	Sat	40.513	NR	90	117	NR	NR	30409	31726							58				14954				
20-Aug	Sun	35.300	179	100		44	52698	29440																
21-Aug	Mon	34.705	206	114		45	59625	32996		584	572	294	188	208	46		78	60203	13314		180	38	376	526
22-Aug	Tue	39.372	207	137		34	67971	44986		602	584	288	184	254	64		75	83404	21015		188	46	348	520
23-Aug	Wed	30.736	204	118		42	52293	30248		596	472	294	162	256	66		74	65623	16918		194	38	340	406
24-Aug	Thu	36.950	193	130		33	59475	40061		564	512	270	166	214	66		69	65947	20339		162	44	350	446
25-Aug	Fri	52.415																						
26-Aug	Sat	37.624			120				35546							61				17897				
27-Aug	Sun	34.707																						
28-Aug	Mon	33.786	231	143		38	65090	40294		590	620	274	194	224	50		78	63118	14089		176	36	366	570
29-Aug	Tue	32.327	222	140		37	59853	37745		610	622	316	192	232	58		75	62549	15637		184	36	378	564
30-Aug	Wed	31.936	254	157		38	67652	41816		596	628	266	182	210	58		72	55933	15448		178	44	386	570
31-Aug	Thu	31.077	242	151	148	38	62722	39137	39748	618	596	290	150	218	48	54	78	56502	12441	14404	182	38	400	548
MIN		25.624	179	90	117	31	49781	29440	31726	564	472	266	150	206	44	54	69	53041	9854	12080	162	32	340	406
MAX		52.415	284	196	169	48	67971	44986	39748	732	752	428	294	344	72	61	84	83404	21015	17897	304	58	468	708
AVE		31.719	229	139			58311	35640		634	621	328	203	242	56			61193	14444		199	41	392	565
						39											77							

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

August 2006

		Parameter	Temp		pH		D O	Total Ammonia NH3 - N	Chloride	Total Chlorine Residual		Fecal Coli	Sludge Cake		Filtrate
		Units	deg C	deg C	units	units	mg/L	mg/L	mg/L	mg/L	mg/L	FC/100 mL	% TS	% TVS	mg/L SS
		MDL						0.03				2			
		Sample Type	G	G	G	G	G	24 HC	24 HC	8 G/DAY AVE	G	G	24 HC (3 G)		24 HC (48 G)
Date	Day	Sample Point	I	FE	I	FE	FE	FE	I	FE	FE	FE	Discharge Belt		Belt press
1-Aug	Tue		15.2	14.8	7.1	6.9	2.0		72	0.23			31.3	82.0	530
2-Aug	Wed						5.7		69	0.39			32.3	83.7	690
3-Aug	Thu		15.1	15.7	7.2	6.8	2.0		71	0.13			32.4	82.9	520
4-Aug	Fri									0.02	0.00	5400	30.5	84.0	1210
5-Aug	Sat									0.04	0.00	230	31.4	85.1	500
6-Aug	Sun		14.0	15.0	7.2	6.9				0.09	0.00	280	33.2	85.3	560
7-Aug	Mon						1.4		64	0.35	0.00	1300	35.6	84.3	640
8-Aug	Tue		14.9	15.7	7.4	6.9	3.5		73	0.27	0.20	33	33.7	84.3	690
9-Aug	Wed								71	0.31			34.0	84.0	600
10-Aug	Thu		15.6	15.9	7.2	6.9	1.7		67	0.19			33.6	83.6	790
11-Aug	Fri		15.1	15.5	6.8	6.7	1.4			0.09			34.2	85.1	670
12-Aug	Sat									0.39			35.3	79.1	690
13-Aug	Sun		13.5	14.5	7.3	7.1				0.40			32.3	81.0	250
14-Aug	Mon		14.9	14.9	7.3	6.8	5.3		62	0.61	0.70	< 2	32.3	83.6	480
15-Aug	Tue		14.9	15.1	6.9	6.5	2.4		61	0.57	0.33	< 2	32.9	82.2	680
16-Aug	Wed		14.9	15.7	7.1	6.8	5.4	19.36	58	0.27	0.58	4	34.7	83.1	540
17-Aug	Thu						2.1		58	0.24			33.3	84.1	500
18-Aug	Fri									0.05			35.0	82.0	670
19-Aug	Sat									0.38			36.1	73.3	720
20-Aug	Sun		15.5	15.6	7.3	7.2				0.47			37.0	71.4	910
21-Aug	Mon								64	0.69	0.21	49	33.6	78.1	580
22-Aug	Tue		15.0	15.1	7.0	6.9	3.4		55	0.37	0.22	22	32.8	80.8	700
23-Aug	Wed		14.2	14.5	7.2	7.1	3.5		60	0.27	0.00	140	33.5	74.6	880
24-Aug	Thu		14.8	14.8	7.2	7.1	5.9		59	0.47			34.7	75.0	540
25-Aug	Fri						5.5			0.37			35.6	68.6	530
26-Aug	Sat									0.40			34.4	64.0	920
27-Aug	Sun		15.0	15.1	7.4	7.2				0.52			33.4	71.9	770
28-Aug	Mon		14.9	14.9	7.3	7.0	6.5		64	0.91	0.67	11	37.2	70.5	950
29-Aug	Tue						4.3		65	0.63	0.55	5	34.3	76.9	800
30-Aug	Wed		14.8	14.6	7.1	7.2	5.2		62	0.24	0.16	27	34.3	79.2	620
31-Aug	Thu		14.7	14.8	7.2	6.9	2.2		58	0.07			34.1	79.4	760
MIN	MIN		13.5	14.5	6.8	6.5	1.4	19.4	55	0.02	0.00	< 2	30.5	64.0	250
MAX	MAX		15.6	15.9	7.4	7.2	6.5	19.4	73	0.91	0.70	5400	37.2	85.3	1210
AVE	AVE		14.8	15.1			3.7	19.4	64	0.34	0.26	42	33.8	79.5	674

August 2006

COMMENTS

Report Prepared By: Mark Spano, Water Quality Supervisor

Report Checked By: Paul Smith, Water Quality Tech II

Abbreviations

AVE	arithmetic average	ND	not detected	% REM	percent removal, calculated from daily concentrations
	(except Fecal Coli which is a geometric mean)	MGD	million gallons per day	%REM CALCTD	average percent removal, calculated from monthly
BOD5	biochemical oxygen demand, 5 day test	mg/L	milligrams per liter		average concentrations; reported on DMR per
CALCTD	calculated	mg/kg	milligrams per kilogram of dry weight		EPA guidelines
DO	dissolved oxygen	MPN	most probable number	S	sludge cake
deg C	degree(s) Celsius	NR	no analytical results or unusable data due	TDS	total dissolved solids
E	estimated result		to lab error or failure to meet quality control	TS	total solids
FE	final effluent		criteria	TSS	total suspended solids
G	grab	NT	not tested	TVS	total volatile solids
I	influent			VSS	volatile suspended solids
LWA	loading, weekly average			24 HC	24 hour flow composite
				24 HC (3G)	24 hour composite of one grab per each eight
					hour shift

Comments, Footnotes:

P.1: The final effluent autosampler is normally taken off line on Saturdays, Mondays, and Wednesdays for line cleaning for approximately 1.5 hours each time; the composite samples for BODs, TSS, etc. are therefore slightly less than a 24HC on these days. 8/23/06 - power outage shut off I, FE, and filtrate autosamplers from 0120 - 0500. 8/24 FE autosampler off 0900-0940 to shoot pigs.

P.2: Power outage shut off final effluent sample line - no residual tested between 2400 on 8/22/06 and 0515 on 8/23/06 - gap of 5.25 hours exceeds permit frequency of once every four hours.

Wastewater metals, cyanide, and oil & grease analyses are conducted twice per year during toxic pollutant testing. Results are no longer reported on the MMR; they are filed in the toxic pollutant folders in the file room and reported in the annual report to EPA. Metals analyses on sludge for 40 CFR Part 503 are conducted periodically but are no longer reported on the MMR. Results are reported to EPA each year on February 19 on reports found in W:Wastewater\Asplund WWTF\Reports\Part503\.

Permit Exceedances:

T-608005

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 W. 7th Ave. Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178	
Required Completion Date: ASAP	P.O. #:AK06-1017	KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Stronglocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently. Please see attached permit pages for further information, including reporting requirements.

	Preservative: None (4° C)	**Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX004	1	8-15/16-06	0800-0800	in tack	T-608005-01

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Susan Lang	8/16/06 1035	hand	M. Savoie	8/16/06 1035
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[illegible]	8/16/06 1300	FED EX	Sarah McGinnis	8/17/06 1023
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

SAMPLED BY (NAME/SIGNATURE): Susan Lang / Susan Lang

APPENDIX C

Whole Effluent Toxicity Testing

C4 Fourth Quarter Testing

ToxScan, Inc.

ToxScan Inc.
42 Hangar Way • Watsonville, CA 95076-2404 • (831) 724-4522 • FAX (831) 724-3188

John M. Asplund Water Pollution Control Facility
Chronic Toxicity Testing – 4th Quarter 2006
NPDES Permit No. AK002255-1

3-Species Chronic Bioassay Results:

Bivalve Larvae (*Mytilus galloprovincialis*)
Urchin Fertilization (*Strongylocentrotus purpuratus*)
Fish Survival and Growth (*Atherinops affinis*)

SAMPLES RECEIVED 1 – 5 November 2006
(KLI Project 516.03)

T611001

Prepared for

KINNETIC LABORATORIES, INC.
Anchorage, Alaska

Prepared by

TOXSCAN, INC.
BIOASSAY DIVISION
Watsonville, California

November 2006

Introduction

Effluent samples from the Municipality of Anchorage's John M. Asplund Water Pollution Control Facility (WPCF) were collected by Kinnetic Laboratories, Inc. personnel and shipped via overnight air courier to ToxScan's laboratory in Watsonville, CA for whole effluent toxicity (WET) testing. The samples were collected as 24-hr flow-based composite final effluent samples between 31 October and 5 November 2006. Upon arrival at ToxScan the samples were assigned laboratory number **T611001.** Bioassays were initiated on 1 November 2006.

Three short-term chronic toxicity tests were requested; a fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*), a bivalve larvae survival and development test using the blue mussel (*Mytilus galloprovincialis*), and a larval survival and growth test using the topsmelt (*Atherinops affinis*). The first two tests are of short duration and require only a single effluent sample. The topsmelt test lasts seven days and requires three effluent samples collected two days apart for daily renewal of test solutions.

Five concentrations of effluent plus a control were tested with each species. Following permit directions, the five concentrations were 0.175%, 0.35%, 0.7%, 1.4%, and 2.8%. Dilutions of the effluent were made with natural seawater from our laboratory system, resulting in test solutions whose salinity was high enough to be compatible with the requirements of the test organisms.

Upon receipt, the following water quality parameters were measured on each of the samples.

Sample T-611001	pH	Temp	D.O.	Specific Conductance[1]	Salinity	Alkalinity	Hardness	CL_2	NH_3
-01A MOA06TOX005	7.2	2.3	9.6	534	0.5	180	165	0.05	29.1
-01B MOA06TOX006	7.7	3.0	10.6	545	0.5	206	168	0.10	nm
-01C MOA06TOX007	7.1	4.9	11.4	702	0.5	196	176	0.05	29.0
	--	°C	mg/L	µS/cm	‰	mg CaCO3/L	mg CaCO3/L	mg/L	mg/L

[1] Corrected to 25 °C. nm= not measured

Methods

The test methods followed Short-*Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (EPA/600/R-95/136, August, 1995) and are briefly described below:

Sea Urchin Fertilization Test.

Eggs and sperm were obtained from gravid adult sea urchins by injection with 0.5M potassium chloride. Urchin broodstock was supplied by the Granite Canyon laboratory of UC Santa Cruz. Care was taken to avoid contact of eggs with sperm prior to test initiation. Sperm and eggs were diluted to appropriate concentrations with seawater, and aliquots of sperm were precisely

pipetted into test chambers (test tubes) containing diluted effluent. After sperm had been in contact with the effluent for precisely 20 minutes, aliquots of unfertilized eggs were added to the test chambers and fertilization was allowed to proceed for a second 20-minute period. At the end of the 20-minute fertilization period, formaldehyde (10% formalin) was added to each test chamber to stop all biological activity. Test chambers were then examined microscopically to score the numbers of fertilized and unfertilized eggs. Four replicate test chambers were used for control (seawater only) exposures and for each dilution of test effluent. Test temperature was 12±1°C. The test met acceptability criteria; seawater controls achieved greater than 70% egg fertilization, there was no fertilization in egg blank controls, %MSD was <25% relative to controls and final sperm stock density was <33,600,000 per ml. The reference toxicant test achieved slightly less than the minimum 80% fertilization at the NOEC.

Mussel Larvae Survival and Development Test.

Gravid mussels, supplied by Carlsbad Aquafarms, Carlsbad, CA, were induced to spawn by thermal and UV stimulation. Eggs and sperm were collected in separate beakers filled with 0.45 µm-filtered seawater. After inspection, gametes from multiple individuals were screened and pooled. Egg density was determined by microscopically counting several 1-ml aliquots taken from the well-mixed egg beaker. Fertilization was accomplished by addition of an appropriate amount of sperm suspension. Tests were initiated when at least 90% fertilization was observed.

Larvae were tested at 16°C in 100 mm borosilicate glass test tubes containing 5 ml of test solution. After adequate fertilization was confirmed, an aliquot of embryos was pipetted into each test tube. Five extra test tubes were prepared in addition to those required for test and control replicates. These "extra" test containers were not incubated, but rather they were evaluated immediately after inoculation to provide the "initial recovery" data used to establish the mean number of embryos added to each test container.

At the end of the 48 hour exposure period the contents of each test tube were prepared for microscopic evaluation. Each tube was inverted at least five times to promote uniform mixing of contents, and then rapidly subsampled with a 1 ml Eppendorf pipette. The 1 ml subsample was placed onto a Sedgwick-Rafter counting slide and the total number of normal and abnormal larvae was determined. Larvae were scored for evidence of internal tissue inside a complete larval shell. Larvae which had a complete larval shell containing tissue were counted as normal, whereas empty shells and larvae with incomplete shells were scored as abnormal. On the assumption that abnormal larvae would not survive, abnormals were counted as mortalities. Data were reported as percent of initial embryos which survived, and percent of survivors which showed normal development.

Topsmelt Larval Survival and Growth Test.

Test organisms were 12-day old larvae, obtained from ABS, Ft. Collins, CO. Five larvae were used in each test container and there were five replicate containers per concentration. Laboratory control water was seawater from our laboratory system. The sample dilutions were prepared daily using laboratory sea water. Each larval container was fed twice daily with approximately 200 newly-hatched *Artemia* nauplii. Test temperature was 20±1°C, and photoperiod was 16:8 L:D. Daily renewal of approximately 75% of the test volume coincided with daily environmental monitoring and assessment of survival. After seven days of exposure, the test was terminated. Surviving larvae were dried and weighed.

Results

Sea Urchin Fertilization Test

The results of the sea urchin fertilization bioassay are detailed and summarized in the attached CETIS™ reports, Appendix A. Statistical analysis of the sea urchin fertilization bioassay data show that there were significant decreases in egg fertilization in the 2.8% and 1.4% effluent concentrations when compared with the seawater-only controls. The NOEC for fertilization was therefore 0.7%, the LOEC was 1.4% and the chronic toxicity units were 142.9 TUc. The results of this test met the allowable Permit limit of not exceeding 143 TUc.

Appendix A also presents results of the concurrent reference toxicant test, in which copper was the toxicant, that produced an EC_{25} of 24.3 ppb, which is within our laboratory control chart limits of 0.0 – 64.2 ppb with a mean of 24.8 ppb. This organism-toxicant result suggests that the test population was typically sensitive. All test acceptability criteria (TAC) were met in both the effluent bioassay and the reference toxicant bioassay. A summary of test conditions for each of the tests is presented in Appendix B.

Bivalve Larval Survival and Development Test

Statistical analyses of the bivalve larval bioassay data show that none of the effluent concentration produced a significant decrease in survival or normal development of the test organisms. The NOECs for survival and development were therefore ≥2.8% effluent and the LOECs were >2.8% for both endpoints. Chronic toxicity units were ≤35.7 TUc for survival and for development. The results of the concurrent reference toxicant test in which copper was the toxicant produced an LC_{50} (for survival) of 11.2 ppb and an EC_{50} (for normal development) of 10.8 ppb. Both results were within our laboratory control chart limits and indicate typical sensitivity of the test population.

Topsmelt Survival and Growth Test

The statistical analysis of the topsmelt bioassay shows that no concentration of effluent tested produced significant mortality or significantly decreased growth (biomass) of topsmelt larvae when compared with seawater-only controls. The NOEC for both endpoints was ≥2.8%, the LOEC was >2.8% and the chronic toxicity units were ≤35.7 TUc. In the concurrent reference toxicant test using copper as the toxicant, the LC_{50} for survival was 121 ppb and the IC_{50} for growth was 109 ppb. Both values are within our laboratory control chart limits, and indicate typical sensitivity of the test population. All test acceptability criteria (TAC) were met in both effluent and reftox bioassays.

Discussion

Asplund WPCF monthly monitoring data for October and November 2006 that includes daily flow and laboratory test results conducted concurrently with the WET testing are presented in Appendix C. Plant flow, chemical concentrations, and physical measurements were found to be typical for the Asplund facility during the WET testing.

The results of this test event suggest that, for this effluent test, sea urchin fertilization appears to be the most sensitive of the three species tested. Significantly reduced fertilization was produced by exposure of urchin sperm to the 2.8% and 1.4% concentrations of effluent tested. This effluent-produced toxicity (142.9 TUc) seen in the urchin fertilization test is at the

permissible NPDES Permit limit. The Permit limits specify that the toxicity of the effluent should not be greater than 143 TUc.

No chronic toxicity to bivalve or topsmelt larvae was produced for any effluent concentration that was tested for the Asplund WWTF. A summary of the results from the three-species tests is presented below.

Bioassay Results Summary:

Species	Endpoint	NOEC	TUc	Exceeds Permit?	LOEC	Point Estimate	Type	TU_P
Urchin	Fertilization	**0.7**	**142.9**	**No**	1.4	1.7	EC_{25}	58.5
Bivalve	Survival	**≥2.8**	**≤35.7**	**No**	>2.8	>2.8	LC_{50}	<35.7
Bivalve	Development	**≥2.8**	**≤35.7**	**No**	>2.8	>2.8	EC_{25}	<35.7
Topsmelt	Survival	**≥2.8**	**≤35.7**	**No**	>2.8	>2.8	LC_{50}	<35.7
Topsmelt	Biomass	**≥2.8**	**≤35.7**	**No**	>2.8	>2.8	IC_{25}	<35.7

TUc = 100/NOEC TU_P = 100/Point Estimate

Appendix A

CETIS™ Reports

CETIS Test Summary

Report Date: 01 Nov-06 3:12 PM
Test Link: 02-3148-1172/611001SP01

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	08-1337-7090	**Test Type:**	Fertilization	**Duration:**	45m
Start Date:	01 Nov-06 12:24 PM	**Protocol:**	EPA/600/R-95/136 (1995)	**Species:**	Strongylocentrotus purpuratus
Ending Date:	01 Nov-06 01:09 PM	**Dil Water:**	Laboratory Seawater	**Source:**	Granite Canyon Lab
Setup Date:	01 Nov-06 12:24 PM	**Brine:**	Not Applicable		

Sample No:	06-0753-2393	**Code:**	611001-01	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	31 Oct-06 05:50 AM	**Material:**	Effluent	**Project:**	Point Woronzoff
Receive Date:	01 Nov-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
10-4646-6049	Proportion Fertilized	0.7	1.4	0.9899	7.11%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
03-5903-1222	Proportion Fertilized	5	0.5306811	0.3162128	0.8579789	Linear Interpolation
		10	0.9391775	0.4212863	1.732874	
		15	1.453508	0.8590252	1.636459	
		20	1.581457	1.36459	1.749811	
		25	1.709405	1.504986	1.866397	
		40	2.093251	1.897106	2.28634	
		50	2.349148	2.141293	2.602634	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
03-5903-1222	Proportion Fertilized	Control Response	0.93607	0.7 - NL	Yes	Passes acceptability criteria
10-4646-6049	Proportion Fertilized	Control Response	0.93607	0.7 - NL	Yes	Passes acceptability criteria
10-4646-6049	Proportion Fertilized	PMSD	0.07110	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	0.93607	0.86029	0.98058	0.02153	0.04815	5.14%
0.175		5	0.95792	0.91892	0.98039	0.01034	0.02312	2.41%
0.35		5	0.93491	0.90071	0.95238	0.00924	0.02066	2.21%
0.7		5	0.86659	0.80392	0.92593	0.02372	0.05305	6.12%
1.4		5	0.82475	0.75472	0.93893	0.03280	0.07335	8.89%
2.8		5	0.30665	0.23009	0.48113	0.04619	0.10328	33.68%

Proportion Fertilized Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	0.91791	0.96154	0.98058	0.96000	0.86029
0.175		0.91892	0.96154	0.98039	0.96721	0.96154
0.35		0.95000	0.93689	0.90071	0.95238	0.93458
0.7		0.84974	0.83594	0.80392	0.91743	0.92593
1.4		0.83636	0.75472	0.93893	0.82759	0.76613
2.8		0.48113	0.23009	0.31858	0.26126	0.24219

CETIS Analysis Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Comparison	02-3148-1172	02-3148-1172	01 Nov-06 3:10 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		0.7	1.4	142.86	0.9899	7.11%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		0.175	-0.7657	2.36175	0.9687	0.12715	Non-Significant Effect
		0.35	0.24679	2.36175	0.7503	0.12715	Non-Significant Effect
		0.7	2.33554	2.36175	0.0527	0.12715	Non-Significant Effect
		1.4	3.36209	2.36175	0.0055	0.12715	Significant Effect
		2.8	13.8347	2.36175	0.0000	0.12715	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	2.152936	0.430587	5	59.42	0.00000	Significant Effect
Error	0.1739124	0.007246	24			
Total	2.32684810	0.4378335	29			

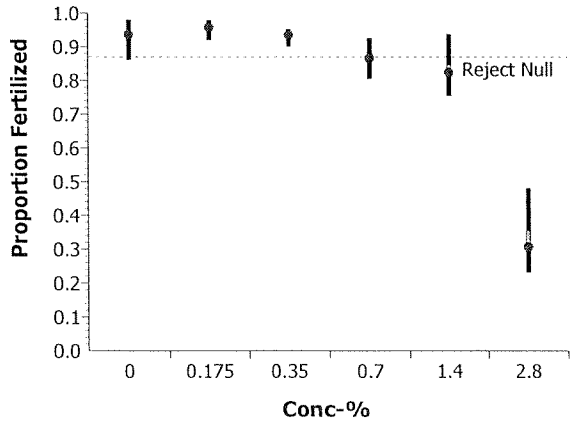
ANOVA Assumptions

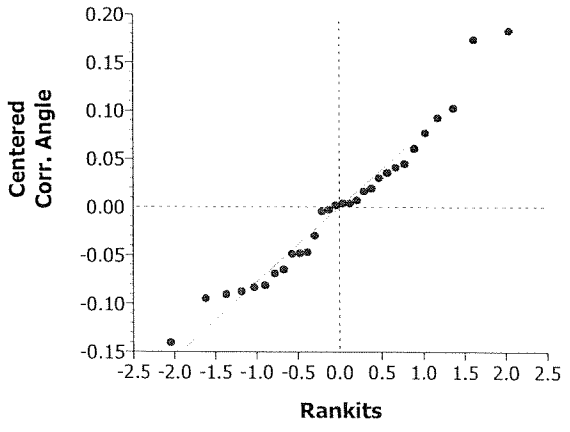
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	4.89506	15.08627	0.42882	Equal Variances
Distribution	Shapiro-Wilk W	0.96238		0.35590	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	0.93607	0.86029	0.98058	0.04815	1.32835	1.18772	1.43099	0.09532
0.175		5	0.95792	0.91892	0.98039	0.02312	1.36958	1.28205	1.43031	0.05418
0.35		5	0.93491	0.90071	0.95238	0.02066	1.31507	1.25023	1.35081	0.04002
0.7		5	0.86659	0.80392	0.92593	0.05305	1.20261	1.11207	1.29515	0.08051
1.4		5	0.82475	0.75472	0.93893	0.07335	1.14735	1.05266	1.32109	0.10705
2.8		5	0.30665	0.23009	0.48113	0.10328	0.58352	0.50028	0.76653	0.10915

Graphics





CETIS Analysis Detail

Report Date: 01 Nov-06 3:12 PM
Analysis: 03-5903-1222/611001SP01

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Linear Interpolation	02-3148-1172	02-3148-1172	01 Nov-06 3:10 PM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

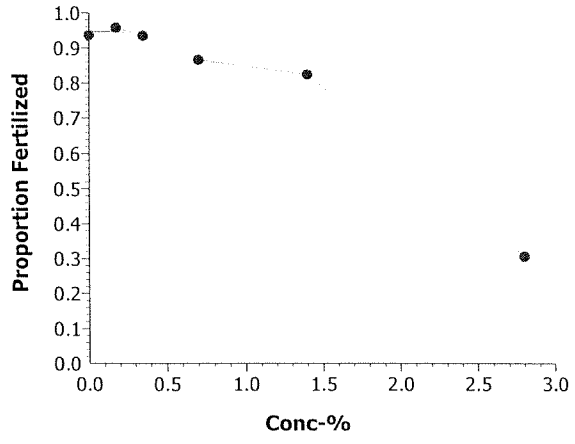
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	0.5306811	0.3162128	0.8579789
10	0.9391775	0.4212863	1.732874
15	1.453508	0.8590252	1.636459
20	1.581457	1.36459	1.749811
25	1.709405	1.504986	1.866397
40	2.093251	1.897106	2.28634
50	2.349148	2.141293	2.602634

Data Summary

			Calculated Variate(A/B)						
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	5	0.93607	0.86029	0.98058	0.00983	0.04815	537	577
0.175		5	0.95792	0.91892	0.98039	0.00472	0.02312	520	543
0.35		5	0.93491	0.90071	0.95238	0.00422	0.02066	615	659
0.7		5	0.86659	0.80392	0.92593	0.01083	0.05305	553	640
1.4		5	0.82475	0.75472	0.93893	0.01497	0.07335	486	587
2.8		5	0.30665	0.23009	0.48113	0.02108	0.10328	173	571

Graphics



CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.2	8.2	8.2			
0.175		1	8.1	8.1	8.1			
0.35		1	8.2	8.2	8.2			
0.7		1	8.3	8.3	8.3			
1.4		1	8.4	8.4	8.4			
2.8		1	8.4	8.4	8.4			
Pooled		6	8.267	8.1	8.4			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8	8	8			
0.175		1	8	8	8			
0.35		1	8	8	8			
0.7		1	8	8	8			
1.4		1	8	8	8			
2.8		1	8	8	8			
Pooled		6	8	8	8			

Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	34	34	34			
0.175		1	33.7	33.7	33.7			
0.35		1	33.7	33.7	33.7			
0.7		1	33.6	33.6	33.6			
1.4		1	33.4	33.4	33.4			
2.8		1	33.3	33.3	33.3			
Pooled		6	33.617	33.3	34			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
0.175		1	12	12	12			
0.35		1	12	12	12			
0.7		1	12	12	12			
1.4		1	12	12	12			
2.8		1	12	12	12			
Pooled		6	12	12	12			

CETIS Test Summary

Report Date: 14 Nov-06 4:23 PM
Test Link: 12-4940-2652/611001MG01

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Test No:	07-3619-1510	**Test Type:**	Development-Survival	**Duration:**	48h
Start Date:	01 Nov-06 12:30 PM	**Protocol:**	EPA/600/R-95/136 (1995)	**Species:**	Mytilis galloprovincialis
Ending Date:	03 Nov-06 12:30 PM	**Dil Water:**	Laboratory Seawater	**Source:**	Carlsbad Aquafarms
Setup Date:	01 Nov-06 12:30 PM	**Brine:**	Not Applicable		

Sample No:	06-0753-2393	**Code:**	611001-01	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	31 Oct-06 05:50 AM	**Material:**	Effluent	**Project:**	Point Woronzoff
Receive Date:	01 Nov-06 10:00 AM	**Source:**	KLI - Alaska		
Sample Age:	31h	**Station:**	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
04-2397-4508	Proportion Normal	2.8	> 2.8	N/A	20.88%	Steel Many-One Rank
14-3731-5262	Proportion Survived	2.8	> 2.8	N/A	27.78%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
10-5905-1664	Proportion Normal	5	1.753994	1.392072	N/A	Linear Interpolation
		10	2.134993	1.395177	N/A	
		15	2.515992	1.401579	N/A	
		20	> 2.8	N/A	N/A	
		25	> 2.8	N/A	N/A	
		40	> 2.8	N/A	N/A	
		50	> 2.8	N/A	N/A	
10-9977-6800	Proportion Survived	5	> 2.8	N/A	N/A	Linear Interpolation
		10	> 2.8	N/A	N/A	
		15	> 2.8	N/A	N/A	
		20	> 2.8	N/A	N/A	
		25	> 2.8	N/A	N/A	
		40	> 2.8	N/A	N/A	
		50	> 2.8	N/A	N/A	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
04-2397-4508	Proportion Normal	Control Response	0.93334	0.9 - NL	Yes	Passes acceptability criteria
10-5905-1664	Proportion Normal	Control Response	0.93334	0.9 - NL	Yes	Passes acceptability criteria
10-9977-6800	Proportion Survived	Control Response	0.8691	0.5 - NL	Yes	Passes acceptability criteria
14-3731-5262	Proportion Survived	Control Response	0.8691	0.5 - NL	Yes	Passes acceptability criteria

Proportion Normal Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	0.93334	0.91262	0.95556	0.00688	0.01539	1.65%
0.175		5	0.93954	0.91975	0.95868	0.00623	0.01393	1.48%
0.35		5	0.92748	0.91262	0.94340	0.00550	0.01229	1.32%
0.7		5	0.93176	0.88991	0.96581	0.01422	0.03179	3.41%
1.4		5	0.94012	0.93000	0.94853	0.00299	0.00669	0.71%
2.8		5	0.76107	0.09135	0.95575	0.16765	0.37487	49.26%

Proportion Survived Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	0.86910	0.72132	0.98989	0.04400	0.09838	11.32%
0.175		5	0.93966	0.84821	1.00000	0.03244	0.07253	7.72%
0.35		5	0.80487	0.72132	0.94385	0.04233	0.09464	11.76%
0.7		5	0.87348	0.72618	1.00000	0.05815	0.13003	14.89%
1.4		5	0.84597	0.73105	1.00000	0.06298	0.14082	16.65%
2.8		5	0.94823	0.80479	1.00000	0.03701	0.08275	8.73%

CETIS Test Summary

Report Date: 14 Nov-06 4:23 PM
Test Link: 12-4940-2652/611001MG01

Proportion Normal Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	0.92920	0.93600	0.95556	0.91262	O.93333
0.175		0.91975	0.95868	0.93636	0.94074	O.94215
0.35		0.93069	0.93277	0.91791	0.94340	O.91262
0.7		0.92941	0.88991	0.91367	0.96000	O.96581
1.4		0.94231	0.93919	0.93000	0.94059	O.94853
2.8		0.91743	0.09135	0.95575	0.90511	O.93571

Proportion Survived Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	0.84503	0.90885	0.98989	0.72132	O.88040
0.175		1.00000	0.97698	0.84821	0.99832	O.87479
0.35		0.72132	0.85177	0.94385	0.78608	O.72132
0.7		1.00000	0.72618	0.99832	0.75463	O.88827
1.4		0.75201	1.00000	0.73105	0.74677	1.00000
2.8		0.80479	1.00000	0.95003	0.98634	1.00000

CETIS Analysis Detail

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Normal	Comparison	12-4940-2652	12-4940-2652	14 Nov-06 4:23 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Steel Many-One Rank	C > T	Rank		2.8	>2.8	35.714	N/A	20.88%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	Ties	Decision(0.05)
Dilution Water		0.175	33	16	0.9907	0	Non-Significant Effect
		0.35	24.5	16	0.5879	0	Non-Significant Effect
		0.7	28	16	0.8627	0	Non-Significant Effect
		1.4	33	16	0.9907	0	Non-Significant Effect
		2.8	24	16	0.5394	0	Non-Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.1867342	0.037347	5	1.09	0.39360	Non-Significant Effect
Error	0.8258258	0.034409	24			
Total	1.01255998	0.0717562	29			

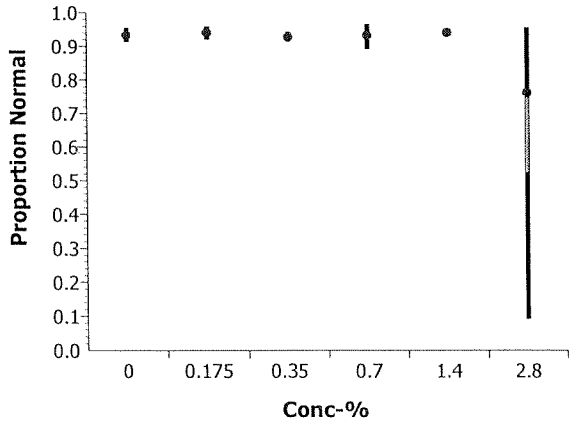
ANOVA Assumptions

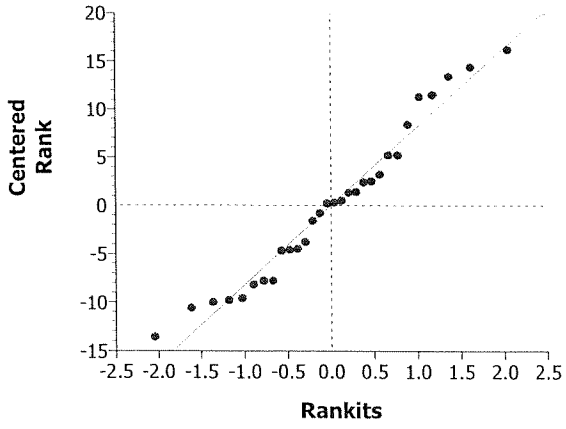
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	61.42741	15.08627	0.00000	Unequal Variances
Distribution	Shapiro-Wilk W	0.56490		0.00000	Non-normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	0.93334	0.91262	0.95556	0.01539	14.5	4.5	26	8.0467
0.175		5	0.93954	0.91975	0.95868	0.01393	19.6	9	28	6.9498
0.35		5	0.92748	0.91262	0.94340	0.01229	12.7	4.5	24	7.3959
0.7		5	0.93176	0.88991	0.96581	0.03179	15.6	2	30	13.088
1.4		5	0.94012	0.93000	0.94853	0.00669	19.8	12	25	4.9699
2.8		5	0.76107	0.09135	0.95575	0.37487	10.8	1	27	10.733

Graphics





CETIS Analysis Detail

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	12-4940-2652	12-4940-2652	14 Nov-06 4:23 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		2.8	>2.8	35.714	N/A	27.78%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		0.175	-1.1491	2.36175	0.9891	0.31208	Non-Significant Effect
		0.35	0.76631	2.36175	0.5265	0.31208	Non-Significant Effect
		0.7	-0.399	2.36175	0.9247	0.31208	Non-Significant Effect
		1.4	-0.1722	2.36175	0.8792	0.31208	Non-Significant Effect
		2.8	-1.3733	2.36175	0.9944	0.31208	Non-Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.2688653	0.053773	5	1.23	0.32505	Non-Significant Effect
Error	1.047622	0.043651	24			
Total	1.31648701	0.097424	29			

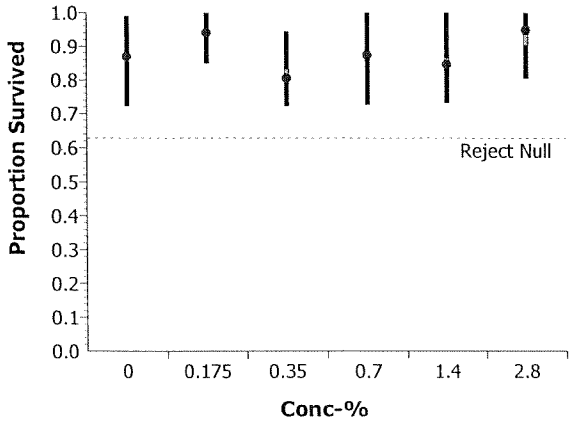
ANOVA Assumptions

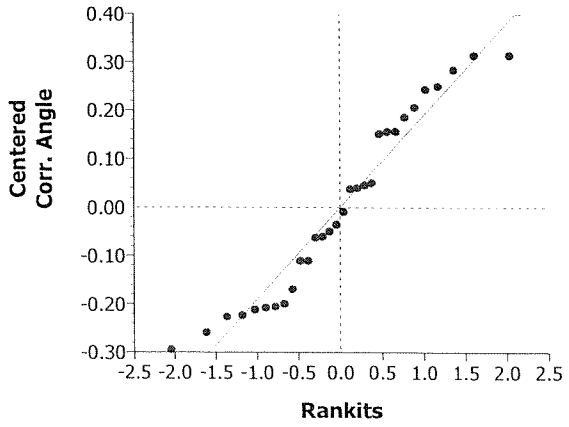
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	2.97239	15.08627	0.70424	Equal Variances
Distribution	Shapiro-Wilk W	0.93689		0.07501	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	0.86910	0.72132	0.98989	0.09838	1.22655	1.01467	1.47009	0.16533
0.175		5	0.93966	0.84821	1.00000	0.07253	1.37838	1.17060	1.56396	0.18082
0.35		5	0.80487	0.72132	0.94385	0.09464	1.12529	1.01467	1.33156	0.13304
0.7		5	0.87348	0.72618	1.00000	0.13003	1.27927	1.02011	1.56396	0.25728
1.4		5	0.84597	0.73105	1.00000	0.14082	1.24930	1.02558	1.56396	0.28738
2.8		5	0.94823	0.80479	1.00000	0.08275	1.40801	1.11317	1.56396	0.18814

Graphics





CETIS Analysis Detail

Report Date: 14 Nov-06 4:24 PM
Analysis: 10-5905-1664/611001MG01

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Normal	Linear Interpolation	12-4940-2652	12-4940-2652	14 Nov-06 4:23 PM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	7055475	280	Yes	Two-Point Interpolation

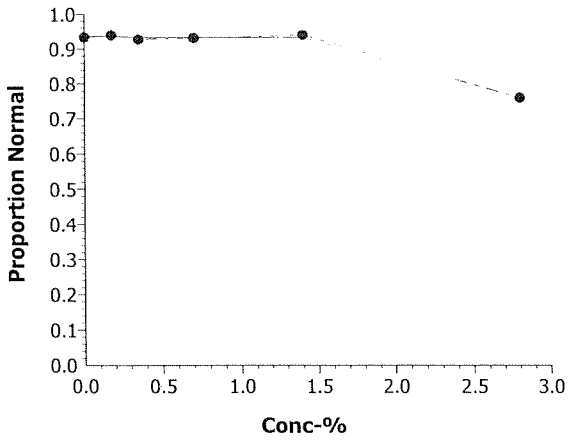
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	1.753994	1.392072	N/A
10	2.134993	1.395177	N/A
15	2.515992	1.401579	N/A
20	> 2.8	N/A	N/A
25	> 2.8	N/A	N/A
40	> 2.8	N/A	N/A
50	> 2.8	N/A	N/A

Data Summary

			Calculated Variate(A/B)						
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	5	0.93334	0.91262	0.95556	0.00314	0.01539	557	596
0.175		5	0.93954	0.91975	0.95868	0.00284	0.01393	609	649
0.35		5	0.92748	0.91262	0.94340	0.00251	0.01229	522	563
0.7		5	0.93176	0.88991	0.96581	0.00649	0.03179	591	635
1.4		5	0.94012	0.93000	0.94853	0.00137	0.00669	554	589
2.8		5	0.76107	0.09135	0.95575	0.07652	0.37487	595	1944

Graphics



CETIS Analysis Detail

Bivalve Larval Survival and Development Test — **ToxScan, Inc.**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Linear Interpolation	12-4940-2652	12-4940-2652	14 Nov-06 4:23 PM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

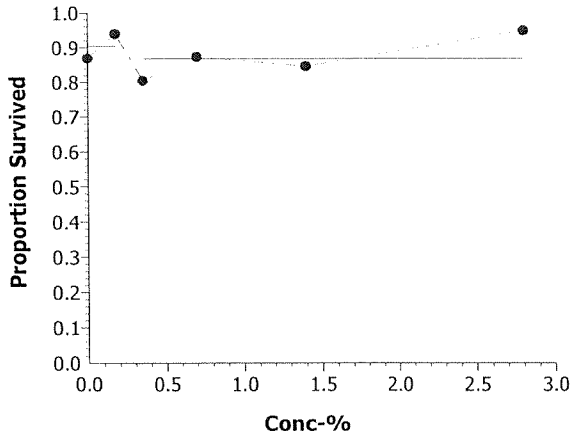
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	> 2.8	N/A	N/A
10	> 2.8	N/A	N/A
15	> 2.8	N/A	N/A
20	> 2.8	N/A	N/A
25	> 2.8	N/A	N/A
40	> 2.8	N/A	N/A
50	> 2.8	N/A	N/A

Data Summary

			Calculated Variate(A/B)						
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	5	0.86910	0.72132	0.98989	0.02008	0.09838	23218	26715
0.175		5	0.93966	0.84821	1.00000	0.01481	0.07253	25103	26715
0.35		5	0.80487	0.72132	0.94385	0.01932	0.09464	21502	26715
0.7		5	0.87348	0.72618	1.00000	0.02654	0.13003	23335	26715
1.4		5	0.84597	0.73105	1.00000	0.02875	0.14082	22600	26715
2.8		5	0.94823	0.80479	1.00000	0.01689	0.08275	25332	26715

Graphics



CETIS Measurement Detail

Bivalve Larval Survival and Development Test — **ToxScan, Inc.**

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	2	7.75	7.4	8.1	0.09192	0.49498	6.39%
0.175		2	7.75	7.4	8.1	0.09192	0.49498	6.39%
0.35		2	7.85	7.5	8.2	0.09191	0.49498	6.31%
0.7		2	7.9	7.6	8.2	0.07878	0.42426	5.37%
1.4		2	8	7.8	8.2	0.05252	0.28285	3.54%
2.8		2	7.95	7.7	8.2	0.06565	0.35355	4.45%
Pooled		12	7.867	7.4	8.2			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	7.9	7.8	8	0.01857	0.10000	1.27%
0.175		3	7.933	7.9	8	0.01072	0.05772	0.73%
0.35		3	7.967	7.9	8	0.01072	0.05773	0.72%
0.7		3	7.967	7.9	8	0.01072	0.05773	0.72%
1.4		3	7.967	7.9	8	0.01072	0.05773	0.72%
2.8		3	7.967	7.9	8	0.01072	0.05773	0.72%
Pooled		18	7.95	7.8	8			

Final Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.6	32.6	32.6			
0.175		1	32.6	32.6	32.6			
0.35		1	32.6	32.6	32.6			
0.7		1	32.6	32.6	32.6			
1.4		1	32.6	32.6	32.6			
2.8		1	32.6	32.6	32.6			
Pooled		6	32.6	32.6	32.6			

Initial Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.7	32.7	32.7			
0.175		1	32.7	32.7	32.7			
0.35		1	32.7	32.7	32.7			
0.7		1	32.7	32.7	32.7			
1.4		1	32.6	32.6	32.6			
2.8		1	32.5	32.5	32.5			
Pooled		6	32.65	32.5	32.7			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	15.333	15.2	15.5	0.02837	0.15276	1.00%
0.175		3	15.2	15.2	15.2	0.00022	0.00117	0.01%
0.35		3	15.133	15.1	15.2	0.01072	0.05772	0.38%
0.7		3	15.267	15.2	15.3	0.01073	0.05778	0.38%
1.4		3	15.233	15.2	15.3	0.01072	0.05775	0.38%
2.8		3	15.167	15	15.3	0.02837	0.15276	1.01%
Pooled		18	15.222	15	15.5			

CETIS Test Summary

Report Date: 15 Nov-06 11:59 AM
Test Link: 00-9623-0742/611001AA01

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Test No:	01-9440-0347	Test Type:	Growth-Survival (7d)	Duration:	6d 21h
Start Date:	01 Nov-06 01:30 PM	Protocol:	EPA/821/R-02-014 (2002)	Species:	Atherinops affinis
Ending Date:	08 Nov-06 10:30 AM	Dil Water:	Laboratory Seawater	Source:	Aquatic Biosystems, CO
Setup Date:	01 Nov-06 01:30 PM	Brine:	Not Applicable		

Sample No:	06-0753-2393	Code:	611001-01	Client:	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	31 Oct-06 05:50 AM	Material:	Effluent	Project:	Point Woronzoff
Receive Date:	01 Nov-06 10:00 AM	Source:	KLI - Alaska		
Sample Age:	32h	Station:	MOA***		

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
06-7384-2746	7d Proportion Survived	2.8	> 2.8	N/A	9.74%	Steel Many-One Rank
19-9614-9355	Mean Dry Biomass-mg	2.8	> 2.8	N/A	17.96%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-%	95% LCL	95% UCL	Method
12-4206-1167	7d Proportion Survived	5	> 2.8	N/A	N/A	Linear Interpolation
		10	> 2.8	N/A	N/A	
		15	> 2.8	N/A	N/A	
		20	> 2.8	N/A	N/A	
		25	> 2.8	N/A	N/A	
		40	> 2.8	N/A	N/A	
		50	> 2.8	N/A	N/A	
03-0735-0606	Mean Dry Biomass-mg	5	> 2.8	N/A	N/A	Linear Interpolation
		10	> 2.8	N/A	N/A	
		15	> 2.8	N/A	N/A	
		20	> 2.8	N/A	N/A	
		25	> 2.8	N/A	N/A	
		40	> 2.8	N/A	N/A	
		50	> 2.8	N/A	N/A	

7d Proportion Survived Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
0.175		5	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
0.35		5	0.96000	0.80000	1.00000	0.04000	0.08944	9.32%
0.7		5	0.96000	0.80000	1.00000	0.04000	0.08944	9.32%
1.4		5	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
2.8		5	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%

Mean Dry Biomass-mg Summary

Conc-%	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	1.07440	0.99200	1.17800	0.03144	0.07030	6.54%
0.175		5	1.08320	0.98201	1.15200	0.03195	0.07145	6.60%
0.35		5	1.10880	0.89401	1.28800	0.06965	0.15575	14.05%
0.7		5	1.08640	0.91600	1.28000	0.06396	0.14302	13.16%
1.4		5	1.11800	0.95800	1.29000	0.05947	0.13297	11.89%
2.8		5	1.08080	0.89200	1.29401	0.07436	0.16627	15.38%

CETIS Test Summary

Report Date: 15 Nov-06 11:59 AM
Test Link: 00-9623-0742/611001AA01

7d Proportion Survived Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	1.00000	1.00000	1.00000	1.00000	1.00000
0.175		1.00000	1.00000	1.00000	1.00000	1.00000
0.35		1.00000	1.00000	1.00000	0.80000	1.00000
0.7		1.00000	1.00000	1.00000	0.80000	1.00000
1.4		1.00000	1.00000	1.00000	1.00000	1.00000
2.8		1.00000	1.00000	1.00000	1.00000	1.00000

Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	1.08400	1.08800	1.17800	0.99200	1.03000
0.175		0.98201	1.13600	1.15200	1.03800	1.10801
0.35		1.14200	1.01600	1.20400	0.89401	1.28800
0.7		1.06399	1.28000	1.00000	0.91600	1.17201
1.4		1.29000	1.02600	1.11400	0.95800	1.20200
2.8		0.95200	1.07200	1.29401	0.89200	1.19401

CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Comparison	00-9623-0742	00-9623-0742	15 Nov-06 11:57 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Steel Many-One Rank	C > T	Rank		2.8	>2.8	35.714	N/A	9.74%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	Ties	Decision(0.05)
Dilution Water		0.175	27.5	16	0.8333	5	Non-Significant Effect
		0.35	25	16	0.6353	5	Non-Significant Effect
		0.7	25	16	0.6353	5	Non-Significant Effect
		1.4	27.5	16	0.8333	5	Non-Significant Effect
		2.8	27.5	16	0.8333	5	Non-Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.0151221	0.003024	5	0.80	0.56062	Non-Significant Effect
Error	0.0907326	0.003781	24			
Total	0.10585475	0.0068049	29			

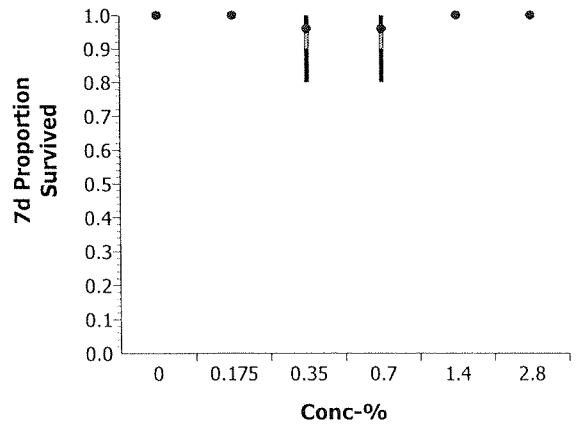
ANOVA Assumptions

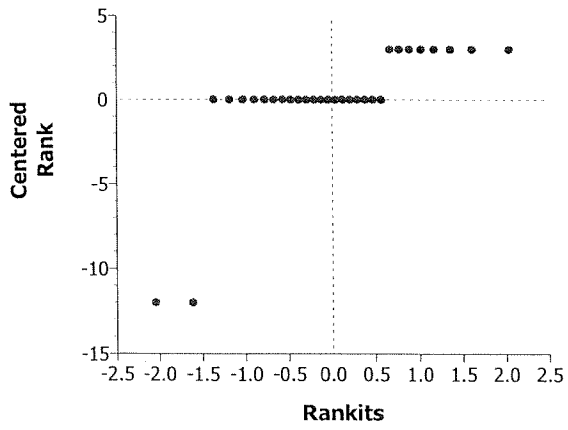
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Modified Levene	1.17333	3.89507	0.35108	Equal Variances
Distribution	Shapiro-Wilk W	0.54537		0.00000	Non-normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	16.5	16.5	16.5	0
0.175		5	1.00000	1.00000	1.00000	0.00000	16.5	16.5	16.5	0
0.35		5	0.96000	0.80000	1.00000	0.08944	13.5	1.5	16.5	6.7082
0.7		5	0.96000	0.80000	1.00000	0.08944	13.5	1.5	16.5	6.7082
1.4		5	1.00000	1.00000	1.00000	0.00000	16.5	16.5	16.5	0
2.8		5	1.00000	1.00000	1.00000	0.00000	16.5	16.5	16.5	0

Graphics





CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Comparison	00-9623-0742	00-9623-0742	15 Nov-06 11:57 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Untransformed		2.8	>2.8	35.714	N/A	17.96%

Group Comparisons

Control	vs	Conc-%	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		0.175	-0.1077	2.36175	0.8632	0.19292	Non-Significant Effect
		0.35	-0.4212	2.36175	0.9283	0.19292	Non-Significant Effect
		0.7	-0.1469	2.36175	0.8731	0.19292	Non-Significant Effect
		1.4	-0.5337	2.36175	0.9446	0.19292	Non-Significant Effect
		2.8	-0.0784	2.36175	0.8554	0.19292	Non-Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	0.0075108	0.001502	5	0.09	0.99307	Non-Significant Effect
Error	0.4003363	0.016681	24			
Total	0.40784712	0.0181828	29			

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	4.58834	15.08627	0.46815	Equal Variances
Distribution	Shapiro-Wilk W	0.97618		0.71745	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	1.07440	0.99200	1.17800	0.07030				
0.175		5	1.08320	0.98201	1.15200	0.07145				
0.35		5	1.10880	0.89401	1.28800	0.15575				
0.7		5	1.08640	0.91600	1.28000	0.14302				
1.4		5	1.11800	0.95800	1.29000	0.13297				
2.8		5	1.08080	0.89200	1.29401	0.16627				

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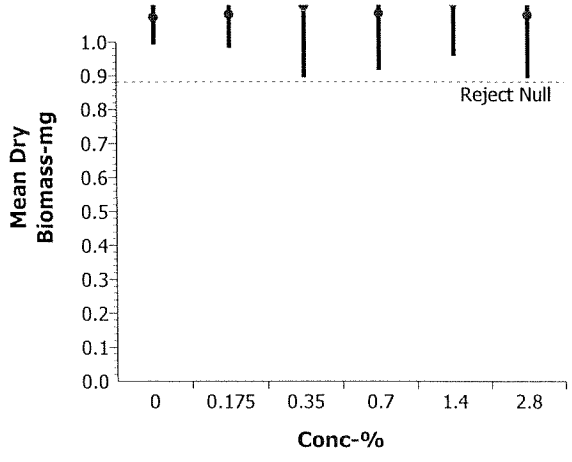
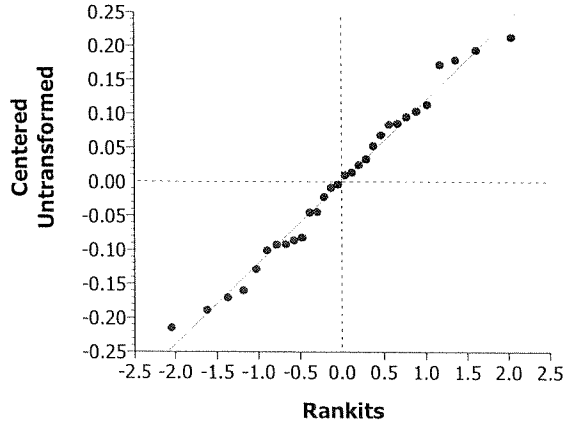




CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Linear Interpolation	00-9623-0742	00-9623-0742	15 Nov-06 11:57 AM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

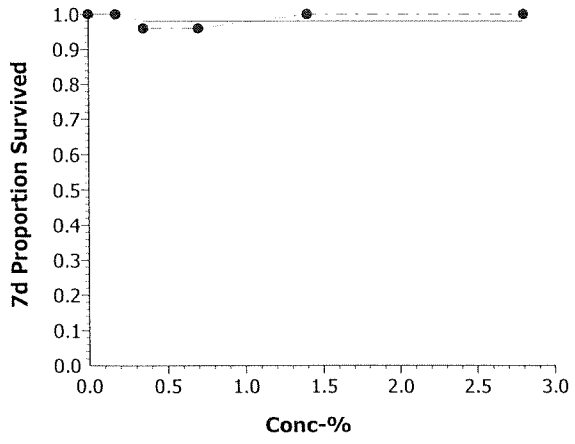
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	> 2.8	N/A	N/A
10	> 2.8	N/A	N/A
15	> 2.8	N/A	N/A
20	> 2.8	N/A	N/A
25	> 2.8	N/A	N/A
40	> 2.8	N/A	N/A
50	> 2.8	N/A	N/A

Data Summary

			Calculated Variate(A/B)						
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	0.00000	25	25
0.175		5	1.00000	1.00000	1.00000	0.00000	0.00000	25	25
0.35		5	0.96000	0.80000	1.00000	0.01826	0.08944	24	25
0.7		5	0.96000	0.80000	1.00000	0.01826	0.08944	24	25
1.4		5	1.00000	1.00000	1.00000	0.00000	0.00000	25	25
2.8		5	1.00000	1.00000	1.00000	0.00000	0.00000	25	25

Graphics



CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Linear Interpolation	00-9623-0742	00-9623-0742	15 Nov-06 11:57 AM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5795186	280	Yes	Two-Point Interpolation

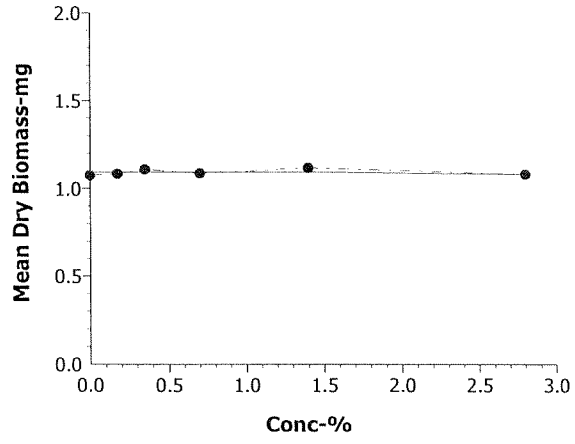
Point Estimates

% Effect	Conc-%	95% LCL	95% UCL
5	> 2.8	N/A	N/A
10	> 2.8	N/A	N/A
15	> 2.8	N/A	N/A
20	> 2.8	N/A	N/A
25	> 2.8	N/A	N/A
40	> 2.8	N/A	N/A
50	> 2.8	N/A	N/A

Data Summary

			Calculated Variate				
Conc-%	Control Type	Count	Mean	Minimum	Maximum	SE	SD
0	Dilution Water	5	1.07440	0.99200	1.17800	0.01435	0.07030
0.175		5	1.08320	0.98201	1.15200	0.01458	0.07145
0.35		5	1.10880	0.89401	1.28800	0.03179	0.15575
0.7		5	1.08640	0.91600	1.28000	0.02919	0.14302
1.4		5	1.11800	0.95800	1.29000	0.02714	0.13297
2.8		5	1.08080	0.89200	1.29401	0.03394	0.16627

Graphics



CETIS Measurement Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Dissolved Oxygen-mg/L

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	6.587	6.1	7.7	0.09439	0.50832	7.72%
0.175		8	6.787	6.3	7.6	0.07652	0.41209	6.07%
0.35		8	6.637	6.1	7.5	0.08060	0.43404	6.54%
0.7		8	6.713	6.3	7.4	0.06542	0.35229	5.25%
1.4		8	6.587	6	7.4	0.08151	0.43895	6.66%
2.8		8	6.638	6.3	7.4	0.06727	0.36228	5.46%
Pooled		48	6.658	6	7.7			

pH

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	7.863	7.7	8.1	0.02614	0.14079	1.79%
0.175		8	7.863	7.7	8.1	0.02206	0.11877	1.51%
0.35		8	7.85	7.7	8.1	0.02431	0.13093	1.67%
0.7		8	7.85	7.7	8.1	0.02220	0.11952	1.52%
1.4		8	7.838	7.7	8.1	0.02419	0.13025	1.66%
2.8		8	7.887	7.7	8.2	0.03207	0.17269	2.19%
Pooled		48	7.858	7.7	8.2			

Salinity-ppt

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	7	30.314	29.6	30.9	0.08125	0.43753	1.44%
0.175		7	30.371	30	30.8	0.05745	0.30938	1.02%
0.35		7	30.314	30	30.7	0.04963	0.26726	0.88%
0.7		7	30.214	29.8	30.7	0.05716	0.30784	1.02%
1.4		7	30.071	29.7	30.7	0.06924	0.37289	1.24%
2.8		7	29.757	29.3	30.5	0.09338	0.50284	1.69%
Pooled		42	30.174	29.3	30.9			

Temperature-°C

Conc-%	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	20.413	19.7	20.7	0.06691	0.36030	1.77%
0.175		8	20.375	20	20.6	0.03544	0.19085	0.94%
0.35		8	20.725	20.1	21.2	0.05766	0.31052	1.50%
0.7		8	20.513	20.1	20.9	0.04907	0.26424	1.29%
1.4		8	20.463	20.1	20.8	0.04432	0.23867	1.17%
2.8		8	20.45	20.1	20.7	0.03844	0.20701	1.01%
Pooled		48	20.49	19.7	21.2			

CETIS Test Summary

Report Date: 01 Nov-06 3:11 PM
Test Link: 18-4683-2080/611001SP-R

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Test No:	08-1337-7090	Test Type:	Fertilization	Duration:	45m
Start Date:	01 Nov-06 12:24 PM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Strongylocentrotus purpuratus
Ending Date:	01 Nov-06 01:09 PM	Dil Water:	Laboratory Seawater	Source:	Granite Canyon Lab
Setup Date:	01 Nov-06 12:24 PM	Brine:	Not Applicable		

Sample No:	12-1428-5691	Code:	611001	Client:	Internal Lab
Sample Date:	01 Nov-06 12:24 PM	Material:	Copper sulfate	Project:	
Receive Date:	01 Nov-06 12:24 PM	Source:	Reference Toxicant		
Sample Age:	N/A	Station:			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
08-4966-8885	Proportion Fertilized	18	36	25.456	7.55%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
08-3219-8256	Proportion Fertilized	5	14.5348	6.926543	21.98321	Linear Interpolation
		10	18.87082	11.6791	21.91766	
		15	20.67093	15.70449	23.5054	
		20	22.47105	18.37668	25.23368	
		25	24.27116	20.44489	26.99052	
		40	29.67149	26.69562	32.93766	
		50	33.27172	30.75801	37.27193	

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
08-3219-8256	Proportion Fertilized	Control Response	0.94743	0.7 - NL	Yes	Passes acceptability criteria
08-4966-8885	Proportion Fertilized	Control Response	0.94743	0.7 - NL	Yes	Passes acceptability criteria
08-4966-8885	Proportion Fertilized	PMSD	0.07553	NL - 0.25	No	Passes acceptability criteria

Proportion Fertilized Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.94743	0.91964	0.97087	0.01064	0.02128	2.25%
9		4	0.93912	0.89109	0.99010	0.02053	0.04107	4.37%
18		4	0.87561	0.77064	0.94340	0.03755	0.07510	8.58%
36		4	0.40192	0.36538	0.50000	0.03273	0.06546	16.29%
72		4	0.01216	0.00000	0.02885	0.00603	0.01206	99.18%
144		4	0.02120	0.00000	0.04348	0.00945	0.01890	89.17%

Proportion Fertilized Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.91964	0.97087	0.94595	0.95327
9		0.92899	0.94631	0.89109	0.99010
18		0.87662	0.77064	0.94340	0.91176
36		0.36538	0.37273	0.50000	0.36957
72		0.00990	0.00000	0.02885	0.00990
144		0.02857	0.04348	0.01274	0.00000

CETIS Analysis Detail

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Comparison	18-4683-2080	18-4683-2080	01 Nov-06 3:10 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		18	36	5.5556	25.456	7.55%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		9	0.12797	2.40711	0.7929	0.13218	Non-Significant Effect
		18	2.22486	2.40711	0.0701	0.13218	Non-Significant Effect
		36	11.9604	2.40711	0.0000	0.13218	Significant Effect
		72	22.5437	2.40711	0.0000	0.13218	Significant Effect
		144	21.9837	2.40711	0.0000	0.13218	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	6.78436	1.356872	5	224.99	0.00000	Significant Effect
Error	0.1085531	0.006031	18			
Total	6.89291352	1.3629028	23			

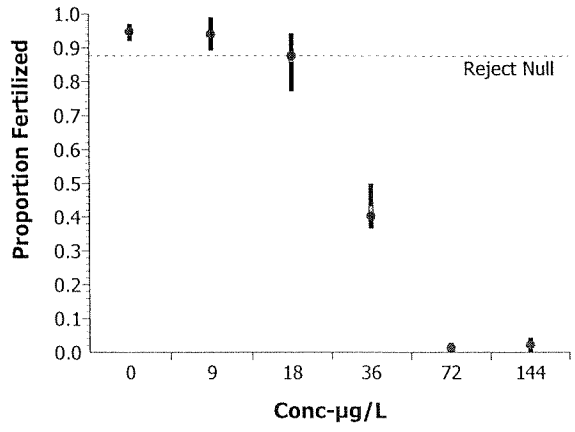
ANOVA Assumptions

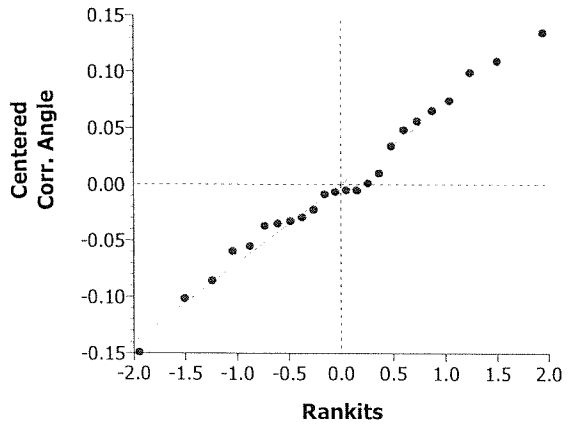
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	3.16439	15.08627	0.67466	Equal Variances
Distribution	Shapiro-Wilk W	0.98324		0.94722	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	4	0.94743	0.91964	0.97087	0.02128	1.34293	1.28338	1.39929	0.04785
9		4	0.93912	0.89109	0.99010	0.04107	1.33591	1.23448	1.47113	0.09965
18		4	0.87561	0.77064	0.94340	0.07510	1.22076	1.07138	1.33058	0.11075
36		4	0.40192	0.36538	0.50000	0.06546	0.68616	0.64910	0.78540	0.06623
72		4	0.01216	0.00000	0.02885	0.01206	0.10501	0.05002	0.17067	0.04964
144		4	0.02120	0.00000	0.04348	0.01890	0.13576	0.05002	0.21006	0.06963

Graphics





CETIS Analysis Detail

Report Date: 01 Nov-06 3:11 PM
Analysis: 08-3219-8256/611001SP-R

Echinoid Sperm Cell Fertilization Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Fertilized	Linear Interpolation	18-4683-2080	18-4683-2080	01 Nov-06 3:10 PM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

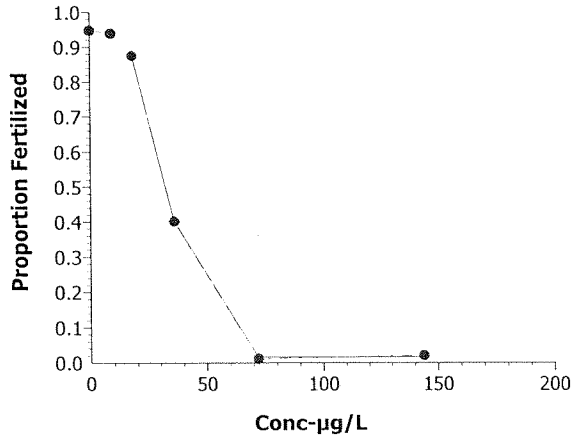
Point Estimates

% Effect	Conc-µg/L	95% LCL	95% UCL
5	14.5348	6.926543	21.98321
10	18.87082	11.6791	21.91766
15	20.67093	15.70449	23.5054
20	22.47105	18.37668	25.23368
25	24.27116	20.44489	26.99052
40	29.67149	26.69562	32.93766
50	33.27172	30.75801	37.27193

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	4	0.94743	0.91964	0.97087	0.00434	0.02128	410	433
9		4	0.93912	0.89109	0.99010	0.00838	0.04107	488	520
18		4	0.87561	0.77064	0.94340	0.01533	0.07510	412	471
36		4	0.40192	0.36538	0.50000	0.01336	0.06546	198	488
72		4	0.01216	0.00000	0.02885	0.00246	0.01206	5	406
144		4	0.02120	0.00000	0.04348	0.00386	0.01890	10	477

Graphics



CETIS Measurement Detail

Echinoid Sperm Cell Fertilization Test — **ToxScan, Inc.**

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8.3	8.3	8.3			
9		1	8.3	8.3	8.3			
18		1	8.4	8.4	8.4			
36		1	8.4	8.4	8.4			
72		1	8.4	8.4	8.4			
144		1	8.4	8.4	8.4			
Pooled		6	8.367	8.3	8.4			

pH

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	8	8	8			
9		1	8	8	8			
18		1	8	8	8			
36		1	8	8	8			
72		1	8	8	8			
144		1	8	8	8			
Pooled		6	8	8	8			

Salinity-ppt

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	33.5	33.5	33.5			
9		1	33.8	33.8	33.8			
18		1	33.8	33.8	33.8			
36		1	33.7	33.7	33.7			
72		1	33.6	33.6	33.6			
144		1	33.3	33.3	33.3			
Pooled		6	33.617	33.3	33.8			

Temperature-°C

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	12	12	12			
9		1	12	12	12			
18		1	12	12	12			
36		1	12	12	12			
72		1	12	12	12			
144		1	12	12	12			
Pooled		6	12	12	12			

CETIS Test Summary

Report Date: 14 Nov-06 4:16 PM
Test Link: 05-8971-9580/611001MG-R

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Test No:	07-3619-1510	Test Type:	Development-Survival	Duration:	48h
Start Date:	01 Nov-06 12:30 PM	Protocol:	EPA/600/R-95/136 (1995)	Species:	Mytilis galloprovincialis
Ending Date:	03 Nov-06 12:30 PM	Dil Water:	Laboratory Seawater	Source:	Carlsbad Aquafarms
Setup Date:	01 Nov-06 12:30 PM	Brine:	Not Applicable		

Sample No:	16-6613-0570	Code:	611001	Client:	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	01 Nov-06 12:30 PM	Material:	Copper sulfate	Project:	Point Woronzoff
Receive Date:	01 Nov-06 12:30 PM	Source:	Reference Toxicant		
Sample Age:	N/A	Station:			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
12-0395-6983	Proportion Normal	4	8	5.6569	10.14%	Dunnett's Multiple Comparison
06-9374-0158	Proportion Survived	8	16	11.314	22.72%	Dunnett's Multiple Comparison

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
08-9141-1684	Proportion Normal	50	10.8388	10.53005	11.15661	Trimmed Spearman-Karber
09-7715-9790	Proportion Survived	50	11.16386	11.14192	11.18583	Trimmed Spearman-Karber

Test Acceptability

Analysis	Endpoint	Attribute	Statistic	TAC Range	Overlap	Decision
08-9141-1684	Proportion Normal	Control Response	0.93619	0.9 - NL	Yes	Passes acceptability criteria
12-0395-6983	Proportion Normal	Control Response	0.93619	0.9 - NL	Yes	Passes acceptability criteria
06-9374-0158	Proportion Survived	Control Response	0.95003	0.5 - NL	Yes	Passes acceptability criteria
09-7715-9790	Proportion Survived	Control Response	0.95003	0.5 - NL	Yes	Passes acceptability criteria

Proportion Normal Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	0.93619	0.92969	0.94656	0.00524	0.00908	0.97%
2		3	0.94379	0.92727	0.95238	0.00826	0.01431	1.52%
4		3	0.93170	0.91150	0.96694	0.01768	0.03063	3.29%
8		3	0.81892	0.77698	0.86957	0.02708	0.04690	5.73%
16		3	0.01572	0.00000	0.04717	0.01572	0.02723	173.21
32		3	0.08065	0.01695	0.12500	0.03266	0.05656	70.14%

Proportion Survived Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	0.95003	0.93543	0.96313	0.00803	0.01391	1.46%
2		3	0.85639	0.76736	1.00000	0.07249	0.12556	14.66%
4		3	0.86493	0.79038	0.92850	0.04025	0.06971	8.06%
8		3	0.92769	0.87928	1.00000	0.03684	0.06381	6.88%
16		3	0.00487	0.00000	0.01460	0.00487	0.00843	173.21
32		3	0.06388	0.00749	0.10743	0.02956	0.05120	80.14%

CETIS Test Summary

Report Date: 14 Nov-06 4:16 PM
Test Link: 05-8971-9580/611001MG-R

Proportion Normal Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	0.92969	0.94656	0.93233
2		0.92727	0.95238	0.95172
4		0.91667	0.96694	0.91150
8		0.77698	0.86957	0.81022
16		0.00000	0.00000	0.04717
32		0.01695	0.12500	0.10000

Proportion Survived Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	0.93543	0.96313	0.95153
2		0.80180	0.76736	1.00000
4		0.92850	0.87591	0.79038
8		0.87928	1.00000	0.90380
16		0.00000	0.00000	0.01460
32		0.00749	0.10743	0.07674

CETIS Analysis Detail

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Normal	Comparison	05-8971-9580	05-8971-9580	14 Nov-06 4:15 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		4	8	25	5.6569	10.14%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		2	-0.2706	2.5023	0.9001	0.15481	Non-Significant Effect
		4	0.06965	2.5023	0.8121	0.15481	Non-Significant Effect
		8	2.94871	2.5023	0.0230	0.15481	Significant Effect
		16	19.5653	2.5023	0.0000	0.15481	Significant Effect
		32	16.8849	2.5023	0.0000	0.15481	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	4.829675	0.965935	5	168.24	0.00000	Significant Effect
Error	0.0688981	0.005742	12			
Total	4.89857283	0.9716764	17			

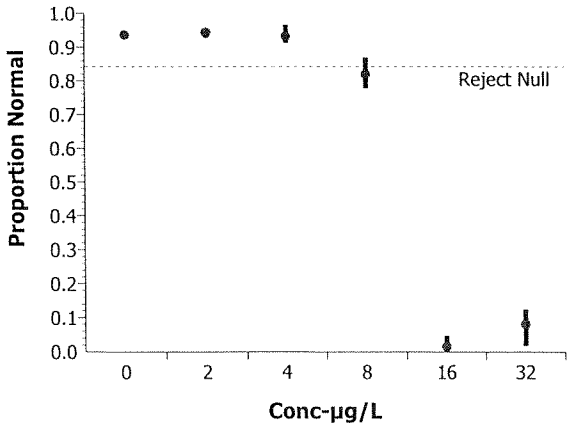
ANOVA Assumptions

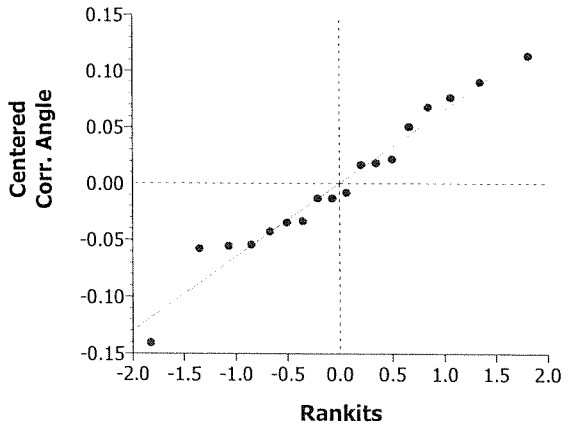
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	6.31940	15.08627	0.27637	Equal Variances
Distribution	Shapiro-Wilk W	0.96865		0.77194	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	3	0.93619	0.92969	0.94656	0.00908	1.31586	1.30242	1.33753	0.01894
2		3	0.94379	0.92727	0.95238	0.01431	1.33261	1.29774	1.35081	0.03021
4		3	0.93170	0.91150	0.96694	0.03063	1.31155	1.26874	1.38796	0.06633
8		3	0.81892	0.77698	0.86957	0.04690	1.13343	1.07895	1.20129	0.06226
16		3	0.01572	0.00000	0.04717	0.02723	0.10539	0.04748	0.21893	0.09833
32		3	0.08065	0.01695	0.12500	0.05656	0.27123	0.13056	0.36137	0.12342

Graphics





CETIS Analysis Detail

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	05-8971-9580	05-8971-9580	14 Nov-06 4:16 PM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		8	16	12.5	11.314	22.72%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		2	0.78635	2.5023	0.5209	0.3176	Non-Significant Effect
		4	1.14007	2.5023	0.3666	0.3176	Non-Significant Effect
		8	0.01292	2.5023	0.8295	0.3176	Non-Significant Effect
		16	10.2568	2.5023	0.0000	0.3176	Significant Effect
		32	8.76912	2.5023	0.0000	0.3176	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	5.35285	1.07057	5	44.30	0.00000	Significant Effect
Error	0.2899692	0.024164	12			
Total	5.64281917	1.0947341	17			

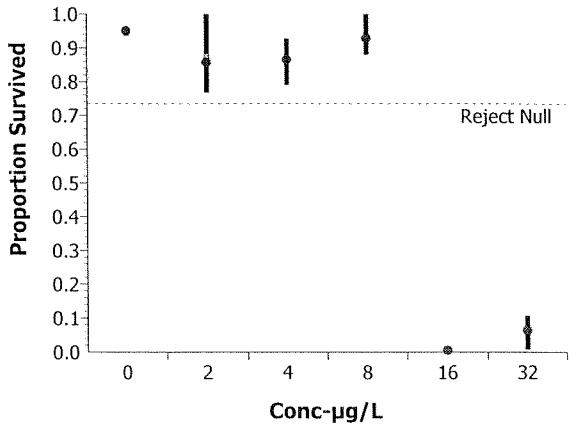
ANOVA Assumptions

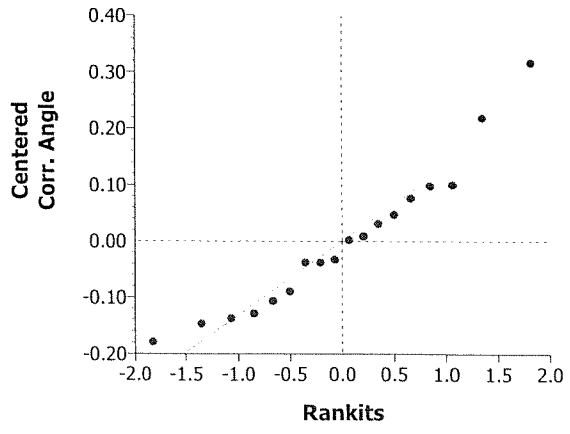
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	7.55863	15.08627	0.18230	Equal Variances
Distribution	Shapiro-Wilk W	0.94130		0.30493	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	3	0.95003	0.93543	0.96313	0.01391	1.34675	1.31387	1.37758	0.03190
2		3	0.85639	0.76736	1.00000	0.12556	1.24695	1.06749	1.56396	0.27534
4		3	0.86493	0.79038	0.92850	0.06971	1.20205	1.09523	1.30012	0.10272
8		3	0.92769	0.87928	1.00000	0.06381	1.34511	1.21595	1.56396	0.19055
16		3	0.00487	0.00000	0.01460	0.00843	0.04493	0.00684	0.12112	0.06598
32		3	0.06388	0.00749	0.10743	0.05120	0.23375	0.08663	0.33394	0.13016

Graphics





CETIS Analysis Detail

Bivalve Larval Survival and Development Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Normal	Trimmed Spearman-Karber	05-8971-9580	05-8971-9580	14 Nov-06 4:16 PM	CETISv1.1.2

Spearman-Karber Options

Threshold Option	Lower Threshold	Trim	Mu	Sigma
Control Threshold	0.06377551	5.74%	1.034981	0.00627549

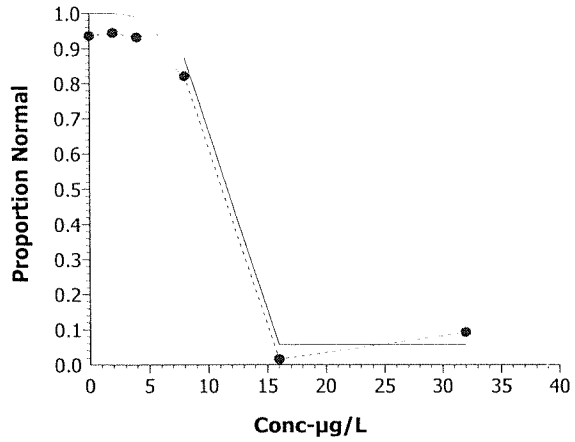
Point Estimates

EC50/LC50	95% LCL	95% UCL
10.83880	10.53005	11.15661

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	3	0.93619	0.92969	0.94656	0.00185	0.00908	367	392
2		3	0.94379	0.92727	0.95238	0.00292	0.01431	340	360
4		3	0.93170	0.91150	0.96694	0.00625	0.03063	341	366
8		3	0.81892	0.77698	0.86957	0.00957	0.04690	359	437
16		3	0.01572	0.00000	0.04717	0.00556	0.02723	5	318
32		3	0.08065	0.01695	0.12500	0.01155	0.05656	25	271

Graphics



CETIS Analysis Detail

Bivalve Larval Survival and Development Test — **ToxScan, Inc.**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Trimmed Spearman-Karber	05-8971-9580	05-8971-9580	14 Nov-06 4:16 PM	CETISv1.1.2

Spearman-Karber Options

Threshold Option	Lower Threshold	Trim	Mu	Sigma
Control Threshold	0.04997193	7.05%	1.047814	0.00042705

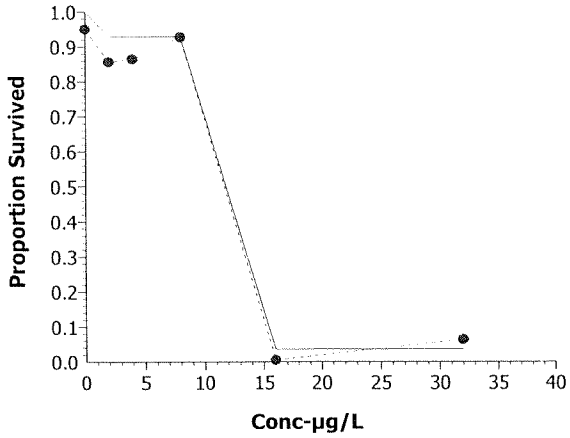
Point Estimates

EC50/LC50	95% LCL	95% UCL
11.16386	11.14192	11.18583

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	3	0.95003	0.93543	0.96313	0.00284	0.01391	15228	16029
2		3	0.85639	0.76736	1.00000	0.02563	0.12556	13727	16029
4		3	0.86493	0.79038	0.92850	0.01423	0.06971	13864	16029
8		3	0.92769	0.87928	1.00000	0.01302	0.06381	14870	16029
16		3	0.00487	0.00000	0.01460	0.00172	0.00843	78	16029
32		3	0.06388	0.00749	0.10743	0.01045	0.05120	1024	16029

Graphics



CETIS Measurement Detail

Bivalve Larval Survival and Development Test — **ToxScan, Inc.**

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	2	7.65	7.2	8.1	0.11818	0.63640	8.32%
2		2	7.65	7.2	8.1	0.11818	0.63640	8.32%
4		2	7.75	7.3	8.2	0.11818	0.63640	8.21%
8		2	7.8	7.4	8.2	0.10505	0.56569	7.25%
16		2	7.85	7.5	8.2	0.09191	0.49498	6.31%
32		2	7.85	7.5	8.2	0.09191	0.49498	6.31%
Pooled		12	7.758	7.2	8.2			

pH

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	7.933	7.9	8	0.01072	0.05772	0.73%
2		3	7.9	7.9	7.9	0.00029	0.00158	0.02%
4		3	7.9	7.9	7.9	0.00029	0.00158	0.02%
8		3	7.9	7.9	7.9	0.00029	0.00158	0.02%
16		3	7.967	7.9	8	0.01072	0.05773	0.72%
32		3	7.967	7.9	8	0.01072	0.05773	0.72%
Pooled		18	7.928	7.9	8			

Final Salinity-ppt

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.6	32.6	32.6			
2		1	32.6	32.6	32.6			
4		1	32.6	32.6	32.6			
8		1	32.6	32.6	32.6			
16		1	32.6	32.6	32.6			
32		1	32.6	32.6	32.6			
Pooled		6	32.6	32.6	32.6			

Initial Salinity-ppt

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	1	32.7	32.7	32.7			
2		1	32.7	32.7	32.7			
4		1	32.7	32.7	32.7			
8		1	32.7	32.7	32.7			
16		1	32.7	32.7	32.7			
32		1	32.7	32.7	32.7			
Pooled		6	32.7	32.7	32.7			

Temperature-°C

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	3	15.333	15	15.5	0.05361	0.28868	1.88%
2		3	15.333	15.2	15.4	0.02144	0.11547	0.75%
4		3	15.267	15.2	15.4	0.02144	0.11547	0.76%
8		3	15.167	15.1	15.2	0.01072	0.05772	0.38%
16		3	15.2	15.1	15.3	0.01857	0.10001	0.66%
32		3	15.2	15.2	15.2	0.00022	0.00117	0.01%
Pooled		18	15.25	15	15.5			

CETIS Test Summary

Report Date: 15 Nov-06 11:42 AM
Test Link: 11-1762-5068/611001AA-R

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Test No:	01-9440-0347	**Test Type:**	Growth-Survival (7d)	**Duration:**	6d 21h
Start Date:	01 Nov-06 01:30 PM	**Protocol:**	EPA/821/R-02-014 (2002)	**Species:**	Atherinops affinis
Ending Date:	08 Nov-06 10:30 AM	**Dil Water:**	Laboratory Seawater	**Source:**	Aquatic Biosystems, CO
Setup Date:	01 Nov-06 01:30 PM	**Brine:**	Not Applicable		

Sample No:	05-5154-3215	**Code:**	611001	**Client:**	Kinnetic Laboratories, Inc. - Alaska
Sample Date:	01 Nov-06 12:30 PM	**Material:**	Copper chloride	**Project:**	Point Woronzoff
Receive Date:	01 Nov-06 12:30 PM	**Source:**	Reference Toxicant		
Sample Age:	60m	**Station:**			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	PMSD	Method
10-0298-5210	7d Proportion Survived	56	100	74.833	20.23%	Dunnett's Multiple Comparison
11-2924-4027	Mean Dry Biomass-mg	100	180	134.16	24.10%	Bonferroni Adj t

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
05-5441-0345	7d Proportion Survived	50	120.9541	102.3016	143.0075	Trimmed Spearman-Karber
09-8185-1650	Mean Dry Biomass-mg	5	22.5543	10.7043	141.4163	Linear Interpolation
		10	45.1086	21.4086	138.1483	
		15	76.45455	27.71708	130.5329	
		20	102.6501	43.75945	125.5686	
		25	109.1974	62.96973	130.3091	
		40	128.8395	98.09584	146.101	
		50	141.9342	118.8063	157.7999	

7d Proportion Survived Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
56		5	0.88000	0.80000	1.00000	0.04899	0.10954	12.45%
100		5	0.72000	0.40000	1.00000	0.10198	0.22804	31.67%
180		5	0.16000	0.00000	0.40000	0.07483	0.16733	104.58
320		5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00%

Mean Dry Biomass-mg Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	5	1.11479	1.04399	1.22000	0.03570	0.07982	7.16%
56		5	0.97640	0.85599	1.08400	0.04335	0.09694	9.93%
100		5	0.91440	0.62599	1.31000	0.11339	0.25355	27.73%
180		5	0.23333	0.16200	0.34800	0.05790	0.10029	42.98%
320		5						

7d Proportion Survived Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	1.00000	1.00000	1.00000	1.00000	1.00000
56		1.00000	1.00000	0.80000	0.80000	0.80000
100		0.60000	0.40000	0.80000	1.00000	0.80000
180		0.20000	0.00000	0.40000	0.20000	0.00000
320		0.00000	0.00000	0.00000	0.00000	0.00000

Mean Dry Biomass-mg Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Dilution Water	1.17799	1.22000	1.08400	1.04800	1.04399
56		1.08400	1.06801	0.94000	0.93400	0.85599
100		0.78400	0.62599	0.91600	1.31000	0.93600
180		0.19000	Missing	0.34800	0.16200	Missing
320		Missing	Missing	Missing	Missing	Missing

CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Comparison	11-1762-5068	11-1762-5068	15 Nov-06 11:41 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Dunnett's Multiple Comparison	C > T	Angular (Corrected)		56	100	1.7857	74.833	20.23%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		56	1.32026	2.22713	0.2201	0.24102	Non-Significant Effect
		100	2.94958	2.22713	0.0123	0.24102	Significant Effect
		180	8.61820	2.22713	0.0000	0.24102	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	2.529248	0.843083	3	28.79	0.00000	Significant Effect
Error	0.4684756	0.02928	16			
Total	2.99772337	0.8723623	19			

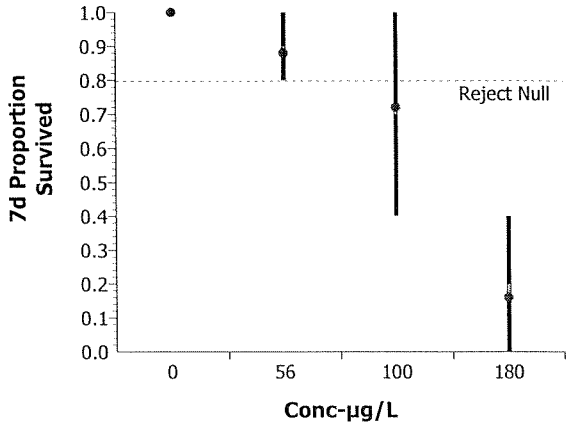
ANOVA Assumptions

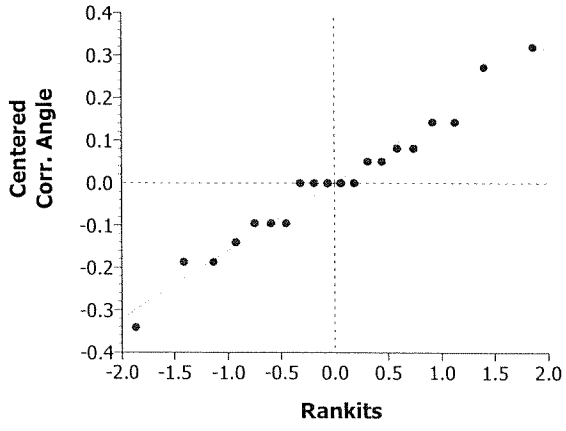
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Modified Levene	4.59988	5.29221	0.01665	Equal Variances
Distribution	Shapiro-Wilk W	0.97400		0.83602	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	1.34528	1.34528	1.34528	0.00020
56		5	0.88000	0.80000	1.00000	0.10954	1.20240	1.10715	1.34528	0.13043
100		5	0.72000	0.40000	1.00000	0.22804	1.02608	0.68472	1.34528	0.25058
180		5	0.16000	0.00000	0.40000	0.16733	0.41261	0.22551	0.68472	0.19317

Graphics





CETIS Analysis Detail

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Comparison	11-1762-5068	11-1762-5068	15 Nov-06 11:41 AM	CETISv1.1.2

Method	Alt H	Data Transform	Zeta	NOEL	LOEL	Toxic Units	ChV	PMSD
Bonferroni Adj t	C > T	Untransformed		100	180	1	134.16	24.10%

Group Comparisons

Control	vs	Conc-µg/L	Statistic	Critical	P-Value	MSD	Decision(0.05)
Dilution Water		56	1.40346	2.35982	0.2734	0.23270	Non-Significant Effect
		100	2.03222	2.35982	0.0923	0.23270	Non-Significant Effect
		180	7.74127	2.35982	0.0000	0.26870	Significant Effect

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P-Value	Decision(0.05)
Between	1.581867	0.527289	3	21.69	0.00002	Significant Effect
Error	0.3403402	0.024310	14			
Total	1.92220667	0.5515988	17			

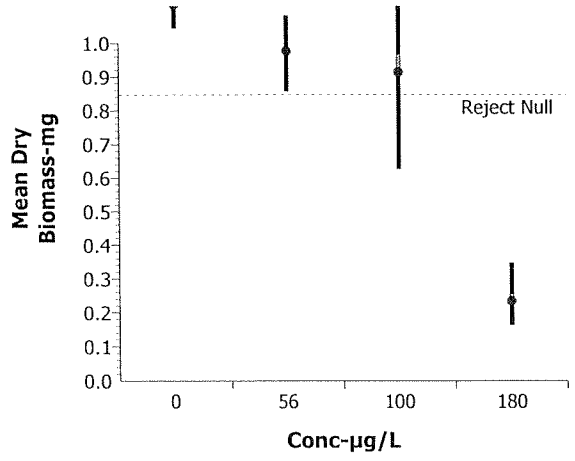
ANOVA Assumptions

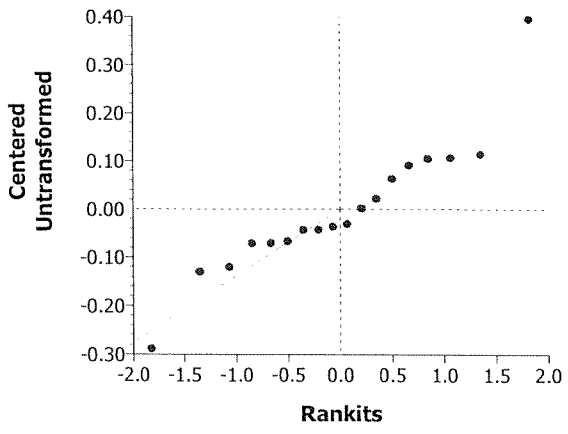
Attribute	Test	Statistic	Critical	P-Value	Decision(0.01)
Variances	Bartlett	6.21923	11.34487	0.10142	Equal Variances
Distribution	Shapiro-Wilk W	0.91124		0.09048	Normal Distribution

Data Summary

			Original Data				Transformed Data			
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	5	1.11479	1.04399	1.22000	0.07982				
56		5	0.97640	0.85599	1.08400	0.09694				
100		5	0.91440	0.62599	1.31000	0.25355				
180		3	0.23333	0.16200	0.34800	0.10029				

Graphics





CETIS Analysis Detail

Report Date: 15 Nov-06 11:44 AM
Analysis: 09-8185-1650/611001AA-R

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Biomass-mg	Linear Interpolation	11-1762-5068	11-1762-5068	15 Nov-06 11:41 AM	CETISv1.1.2

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	5334240	280	Yes	Two-Point Interpolation

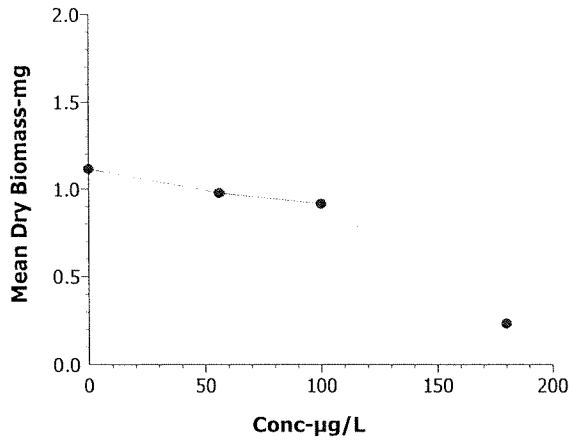
Point Estimates

% Effect	Conc-µg/L	95% LCL	95% UCL
5	22.5543	10.7043	141.4163
10	45.1086	21.4086	138.1483
15	76.45455	27.71708	130.5329
20	102.6501	43.75945	125.5686
25	109.1974	62.96973	130.3091
40	128.8395	98.09584	146.101
50	141.9342	118.8063	157.7999

Data Summary

			Calculated Variate				
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD
0	Dilution Water	5	1.11479	1.04399	1.22000	0.01629	0.07982
56		5	0.97640	0.85599	1.08400	0.01979	0.09694
100		5	0.91440	0.62599	1.31000	0.05176	0.25355
180		3	0.23333	0.16200	0.34800	0.02047	0.10029

Graphics



CETIS Analysis Detail

Report Date: 15 Nov-06 11:44 AM
Analysis: 05-5441-0345/611001AA-R

Larval Fish 7-d Survival and Growth Test — ToxScan, Inc.

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
7d Proportion Survived	Trimmed Spearman-Karber	11-1762-5068	11-1762-5068	15 Nov-06 11:41 AM	CETISv1.1.2

Spearman-Karber Options

Threshold Option	Lower Threshold	Trim	Mu	Sigma
Control Threshold	0	12.00%	2.082621	0.03636914

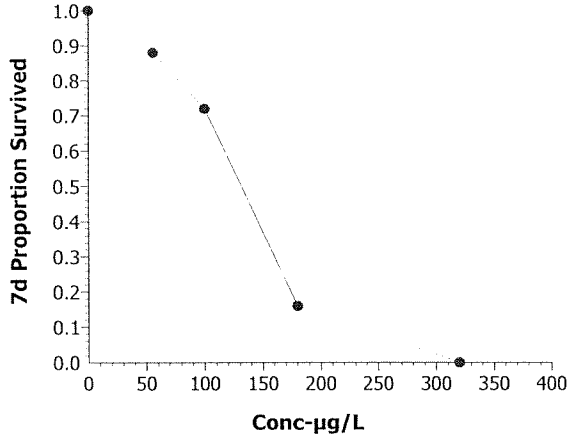
Point Estimates

EC50/LC50	95% LCL	95% UCL
120.95410	102.30160	143.00750

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	5	1.00000	1.00000	1.00000	0.00000	0.00000	25	25
56		5	0.88000	0.80000	1.00000	0.02236	0.10954	22	25
100		5	0.72000	0.40000	1.00000	0.04655	0.22804	18	25
180		5	0.16000	0.00000	0.40000	0.03416	0.16733	4	25
320		5	0.00000	0.00000	0.00000	0.00000	0.00000	0	25

Graphics



CETIS Measurement Detail

Larval Fish 7-d Survival and Growth Test — **ToxScan, Inc.**

Dissolved Oxygen-mg/L

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	6.425	5.4	7.5	0.11393	0.61354	9.55%
56		8	6.487	6	7.4	0.08151	0.43895	6.77%
100		8	6.525	6.2	7.3	0.06714	0.36154	5.54%
180		8	6.575	6.3	7.2	0.05766	0.31053	4.72%
320		4	6.7	6.2	7.2	0.07581	0.40825	6.09%
Pooled		36	6.525	5.4	7.5			

pH

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	7.813	7.6	8.1	0.02707	0.14578	1.87%
56		8	7.825	7.7	8.1	0.02380	0.12818	1.64%
100		8	7.85	7.7	8.1	0.02220	0.11952	1.52%
180		8	7.9	7.8	8.1	0.01985	0.10690	1.35%
320		4	7.9	7.8	8.1	0.02626	0.14142	1.79%
Pooled		36	7.853	7.6	8.1			

Salinity-ppt

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	7	30.343	29.8	30.9	0.07181	0.38669	1.27%
56		7	30.329	29.9	30.8	0.06407	0.34502	1.14%
100		7	30.386	30	30.8	0.05716	0.30783	1.01%
180		7	30.386	30	30.8	0.05716	0.30783	1.01%
320		4	30.15	30	30.3	0.02397	0.12909	0.43%
Pooled		32	30.334	29.8	30.9			

Temperature-°C

Conc-µg/L	Control Type	Samples	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	8	20.588	19.9	21	0.06542	0.35228	1.71%
56		8	20.675	20.1	21.1	0.05935	0.31959	1.55%
100		8	20.625	20.2	20.9	0.05414	0.29155	1.41%
180		8	20.712	20.2	21.1	0.05565	0.29969	1.45%
320		4	20.725	20.3	21.1	0.06499	0.35001	1.69%
Pooled		36	20.658	19.9	21.1			

Appendix B

Summary of Test Conditions

Table B-1. Bioassay Test Conditions

	Sea Urchin *Strongylocentrotus purpuratus*	Blue Mussel *Mytilus galloprovincialis*	Topsmelt *Atherinops affinis*
BIOASSAY PARAMETERS:			
Laboratory ID:	T611001		
Sample Date(s):	10/31/06	10/31/06	10/31, 11/2 and 11/5/06
Date Initiated:	11/1/06	11/1/06	11/1/06
Test Method:	EPA 600/R-95/136		
Test Type:	Static	Static	Static-renewal
Test Duration:	20 Minutes	96 Hours	7 Days
Bioassay Endpoints:	Fertilization	Development and Survival	Survival and Growth
No. Organisms/Container:	260×10^5	46.3 / mL	5
Vol. of Test Solution:	5 mL	150 mL	500 mL
Test Temperature:	12 ± 1°C	15 ± 1°C	20 ± 1°C
Dilution Water Source:	1 µm - filtered laboratory seawater (33.5 ‰)		
Dilution Series (% effluent):	2.8% - 1.4% - 0.7% - 0.35% - 0.175% - 0.0% (Control)		
Test Organism Age:	Sperm	Embryo	13 Days
Reference Toxicant:	CuSO	CuSO	$CuCl_2$

na = not applicable

Appendix C

Monthly Monitoring Reports – October & November 2006
John M. Asplund Wastewater Treatment Facility

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

October 2006

		Flow	BOD5							TS		TVS		Suspended Solids (TSS)							VSS		TDS	
		MGD	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L
			24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	24 HC	24 HC	24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	CALC	CALC
Date	Day		I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE	I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE
1-Oct	Sun	32.183																						
2-Oct	Mon	31.883	173	106		39	46001	28186		604	530	294	202	252	46		82	67008	12232		196	30	352	484
3-Oct	Tue	31.739	254	107		58	67235	28323		572	526	306	200	212	60		72	56117	15882		170	42	360	466
4-Oct	Wed	32.688	186	105		44	50707	28625		622	516	314	164	200	46		77	54524	12540		160	30	422	470
5-Oct	Thu	31.880	227	133		41	60355	35362		644	594	370	206	254	74		71	67533	19675		210	50	390	520
6-Oct	Fri	30.538																						
7-Oct	Sat	30.391			113				30124							57				15082				
8-Oct	Sun	30.478																						
9-Oct	Mon	35.614	173	104		40	51385	30890		544	484	292	164	190	46		76	56434	13663		158	36	354	438
10-Oct	Tue	31.298	196	128		35	51161	33411		642	600	336	220	222	46		79	57948	12007		186	34	420	554
11-Oct	Wed	30.997	218	149		32	56356	38519		602	598	270	172	228	44		81	58941	11375		186	34	374	554
12-Oct	Thu	30.244	205	133		35	51708	33547		624	594	280	160	222	66		70	55996	16648		182	42	402	528
13-Oct	Fri	29.775																						
14-Oct	Sat	29.583			129				34092							51				13423				
15-Oct	Sun	29.829																						
16-Oct	Mon	29.490	220	149		32	54108	36646		656	550	340	180	224	60		73	55092	14757		186	44	432	490
17-Oct	Tue	29.624	221	138		38	54601	34095		602	546	318	192	238	50		79	58801	12353		194	42	364	496
18-Oct	Wed	29.744	217	140		35	53830	34729		630	448	312	184	228	46		80	56559	11411		178	28	402	402
19-Oct	Thu	28.868	240	146		39	57782	35151		626	618	304	232	254	66		74	61153	15890		198	44	372	552
20-Oct	Fri	28.894																						
21-Oct	Sat	29.019			143				35155							56				13603				
22-Oct	Sun	28.813																						
23-Oct	Mon	28.239	220	142		35	51813	33443		672	578	352	186	226	50		78	53226	11776		184	36	446	528
24-Oct	Tue	27.925	226	146		35	52634	34003		646	582	344	216	218	50		77	50771	11645		170	34	428	532
25-Oct	Wed	28.369	236	178		25	55837	42114		630	582	310	188	244	58		76	57730	13723		202	40	386	524
26-Oct	Thu	27.445	262	164		37	59970	37538		622	610	306	202	272	52		81	62258	11902		230	38	350	558
27-Oct	Fri	27.068																						
28-Oct	Sat	27.641			158				36775							53				12261				
29-Oct	Sun	27.466																						
30-Oct	Mon	27.154	197	122		38	44613	27629		620	568	326	182	216	52		76	48916	11776		184	40	404	516
31-Oct	Tue	26.564	239	143	133	40	52949	31681	29655	686	568	388	198	256	44	48	83	56715	9748	10762	216	36	430	524
MIN		26.564	173	104	113	25	44613	27629	29655	544	448	270	160	190	44	48	70	48916	9748	10762	158	28	350	402
MAX		35.614	262	178	158	58	67235	42114	36775	686	618	388	232	272	74	57	83	67533	19675	15082	230	50	446	558
AVE		29.724	217	135			54058	33550		625	561	320	192	231	53			57540	13278		188	38	394	508
						38											77							

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

October 2006

		Parameter	Temp		pH		D O	Total Ammonia NH3 - N	Chloride	Total Chlorine Residual			Fecal Coli	Sludge Cake		Filtrate
		Units	deg C	deg C	units	units	mg/L	mg/L	mg/L	mg/L	mg/L		FC/100 mL	% TS	% TVS	mg/L SS
		MDL						0.03					2			
		Sample Type	G	G	G	G	G	24 HC	24 HC	8 G/DAY AVE	G		G	24 HC (3 G)		24 HC (48 G)
Date	Day	Sample Point	I	FE	I	FE	FE	FE	I	FE	FE		FE	Discharge Belt		Belt press
1-Oct	Sun		12.8	13.5	7.4	7.2				0.66				35.8	73.6	680
2-Oct	Mon		14.3	14.5	7.1	7.1	6.3		50	0.96	1.36	<	2	35.0	74.3	670
3-Oct	Tue		14.1	14.5	7.1	7.0	4.9		47	0.66	0.86	<	2	34.6	77.5	610
4-Oct	Wed								50	0.80	0.30		2	33.3	79.1	680
5-Oct	Thu						4.7		61	0.23				34.0	80.8	610
6-Oct	Fri		14.1	14.3	7.3	7.3	2.4			0.03				33.2	81.9	520
7-Oct	Sat									0.08				32.8	81.6	620
8-Oct	Sun		13.3	14.8	7.4	7.3				0.07				33.7	81.3	600
9-Oct	Mon								59	0.17				33.0	81.9	640
10-Oct	Tue		14.0	14.6	7.1	7.0	2.5		50	0.12				33.2	80.2	700
11-Oct	Wed		13.9	14.6	7.0	6.8	3.0		55	0.12				32.6	80.8	590
12-Oct	Thu		13.6	14.2	7.1	6.8	1.7		55	0.06	0.03		12	32.9	81.1	470
13-Oct	Fri						1.6			0.07	0.03		5400	33.1	83.2	490
14-Oct	Sat									0.21			NR	34.6	82.7	510
15-Oct	Sun		13.4	13.6	7.3	7.3				0.17				35.5	79.8	500
16-Oct	Mon		14.0	14.0	7.1	6.9	1.7		76	0.51	0.20		5	34.0	81.2	590
17-Oct	Tue								68	0.43	0.00	≥	24000	33.6	80.2	510
18-Oct	Wed		13.0	14.0	6.8	6.8	1.3		50	0.39	0.31		170	33.4	80.5	500
19-Oct	Thu						4.8		53	0.69	0.53		19	33.9	78.5	600
20-Oct	Fri		14.0	14.6	7.0	6.9	2.6			0.21				33.9	79.4	590
21-Oct	Sat									0.17				33.2	80.9	560
22-Oct	Sun		12.1	12.7	7.3	7.2				0.14				31.4	77.6	630
23-Oct	Mon		14.1	14.0	7.1	7.0	2.4		55	0.15				32.9	80.6	520
24-Oct	Tue		13.9	13.9	7.1	7.0	1.7		60	0.11				33.9	80.5	590
25-Oct	Wed						4.8		62	0.36	0.72		5	33.9	80.6	680
26-Oct	Thu								52	0.19	0.16		12	33.7	80.3	570
27-Oct	Fri		13.7	14.0	7.0	6.7	1.2			0.15	0.07		140	33.0	81.7	690
28-Oct	Sat									0.59	1.31	<	2	34.7	77.2	680
29-Oct	Sun		12.0	12.5	7.6	7.3				0.61	0.59	<	2	33.5	79.6	710
30-Oct	Mon		13.9	14.1	7.1	6.9	1.5		55	0.55	0.32	<	2	32.4	81.1	620
31-Oct	Tue						2.9	19.0	53	0.38	0.23		7	33.9	81.9	600
MIN	MIN		12.0	12.5	6.8	6.7	1.2	19.0	47	0.03	0.00	<	2	31.4	73.6	470
MAX	MAX		14.3	14.8	7.6	7.3	6.3	19.0	76	0.96	1.36		24000	35.8	83.2	710
AVE	AVE		13.6	14.0			2.9	19.0	56	0.32	0.44		18	33.6	80.1	598

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

October 2006

COMMENTS

Report Prepared By: Mark Spano, Water Quality Supervisor

Report Checked By: Paul Smith, Water Quality Tech II

Abbreviations

AVE	arithmetic average	ND	not detected	% REM	percent removal, calculated from daily concentrations
	(except Fecal Coli which is a geometric mean)	MGD	million gallons per day	%REM CALCTD	average percent removal, calculated from monthly
BOD5	biochemical oxygen demand, 5 day test	mg/L	milligrams per liter		average concentrations; reported on DMR per
CALCTD	calculated	mg/kg	milligrams per kilogram of dry weight		EPA guidelines
DO	dissolved oxygen	MPN	most probable number	S	sludge cake
deg C	degree(s) Celsius	NR	no analytical results or unusable data due	TDS	total dissolved solids
E	estimated result		to lab error or failure to meet quality control	TS	total solids
FE	final effluent		criteria	TSS	total suspended solids
G	grab	NT	not tested	TVS	total volatile solids
I	influent			VSS	volatile suspended solids
LWA	loading, weekly average			24 HC	24 hour flow composite
				24 HC (3G)	24 hour composite of one grab per each eight
					hour shift

Comments, Footnotes:

P.1: The final effluent autosampler is normally taken off line on Saturdays, Mondays, and Wednesdays for line cleaning for approximately 1.5 hours each time; the composite samples for BODs, TSS, etc. are therefore slightly less than a 24HC on these days.

P.2: FC scheduled for 10/14/06 was set up but results were invalid due to lab error - additional test was run the following week.
All chlorine residual tests were run on 10/15&16/2006. However, free chlorine reagent was mistakenly used for some of the tests so those results were invalid. Residuals reported on DMR were the average of the valid measurements. 10/15: no valid tests between 1510 and 2400 (2 required tests missed). 10/16: no valid tests between 0001 and 1207 (3 required tests missed).

Wastewater metals, cyanide, and oil & grease analyses are conducted twice per year during toxic pollutant testing. Results are no longer reported on the MMR; they are filed in the toxic pollutant folders in the file room and reported in the annual report to EPA. Metals analyses on sludge for 40 CFR Part 503 are conducted periodically but are no longer reported on the MMR. Results are reported to EPA each year on February 19 on reports found in W:Wastewater\Asplund WWTF\Reports\Part503\.

Permit Exceedances: >10% of samples exceeded 2400 FC MPN/100mL.

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

November 2006

		Flow	BOD5							TS		TVS		Suspended Solids (TSS)							VSS		TDS	
		MGD	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	lbs/day	lbs/day	lbs/day	mg/L	mg/L	mg/L	mg/L
			24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	24 HC	24 HC	24 HC	24 HC	CALCTD	CALCTD	CALCTD	CALCTD	CALCTD	24 HC	24 HC	CALC	CALC
Date	Day		I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE	I	FE	FE W AVE	% REM	I LOAD	FE LOAD	FE LWA	I	FE	I	FE
1-Nov	Wed	26.558	258	163		37	57145	36103		624	564	286	148	222	54		76	49172	11961		184	30	402	510
2-Nov	Thu	26.733	243	146		40	54178	32551		654	584	330	174	242	88		64	53955	19620		210	52	412	496
3-Nov	Fri	26.623																						
4-Nov	Sat	26.892			155				34327							71				15790				
5-Nov	Sun	26.850	200	135		33	44786	30230		564	554	270	196	186	48		74	41651	10749		156	38	378	506
6-Nov	Mon	26.972	211	131		38	47464	29468		642	554	318	156	226	52		77	50838	11697		190	38	416	502
7-Nov	Tue	27.630	241	146		39	55535	33643		608	568	306	162	204	62		70	47009	14287		172	44	404	506
8-Nov	Wed	28.147	206	153		26	48358	35916		576	560	292	182	206	54		74	48358	12676		174	42	370	506
9-Nov	Thu	28.068																						
10-Nov	Fri	28.833																						
11-Nov	Sat	28.652			141				32314							54				12352				
12-Nov	Sun	30.692																						
13-Nov	Mon	31.487	191	131		31	50157	34401		564	502	282	166	198	46		77	51995	12080		164	38	366	456
14-Nov	Tue	31.280	171	124		27	44610	32349		522	512	254	170	168	52		69	43827	13566		140	38	354	460
15-Nov	Wed	31.282	193	129		33	50352	33655		530	518	292	192	176	48		73	45917	12523		148	38	354	470
16-Nov	Thu	30.153	253	146		42	63623	36715		516	522	264	184	194	52		73	48786	13077		166	40	322	470
17-Nov	Fri	30.103																						
18-Nov	Sat	29.328			133				34280							50				12811				
19-Nov	Sun	29.800																						
20-Nov	Mon	28.372	278	145		48	65781	34310		552	524	288	204	178	40		78	42119	9465		154	36	374	484
21-Nov	Tue	27.380	177	130		27	40418	29685		572	546	286	182	222	56		75	50694	12788		188	38	350	490
22-Nov	Wed	27.125																						
23-Nov	Thu	26.712																						
24-Nov	Fri	26.328	NR	NR		NR	NR	NR		572	544	274	170	190	52		73	41719	11418		156	40	382	492
25-Nov	Sat	28.267	NR	NR	138	NR	NR	NR	31998	562	526	278	158	178	50	50	72	41963	11787	11364	154	42	384	476
26-Nov	Sun	28.968																						
27-Nov	Mon	29.655	179	119		34	44271	29431		554	516	270	172	180	50		72	44518	12366		160	42	374	466
28-Nov	Tue	29.689	198	127		36	49026	31446		590	524	512	344	206	48		77	51007	11885		190	42	384	476
29-Nov	Wed	29.480	216	153		29	53106	37617		636	612	304	176	194	62		68	47697	15244		162	44	442	550
30-Nov	Thu	29.665	204	149	137	27	50471	36864	33839	610	540	294	174	166	56	54	66	41069	13855	13337	142	40	444	484
MIN		26.328	171	119	133	26	40418	29431	31998	516	502	254	148	166	40	50	64	41069	9465	11364	140	30	322	456
MAX		31.487	278	163	155	48	65781	37617	34327	654	612	512	344	242	88	71	78	53955	19620	15790	210	52	444	550
AVE		28.591	214	139			51205	33399		580	543	300	184	196	54			46794	12836		167	40	384	489
						35											73							

Anchorage Water and Wastewater Utility
John M. Asplund ("Pt. Woronzof") Wastewater Treatment Facility
NPDES Permit # AK-002255-1
Monthly Monitoring Report

November 2006

		Parameter	Temp		pH		D O	Total Ammonia NH3 - N	Chloride	Total Chlorine Residual			Fecal Coli	Sludge Cake		Filtrate
		Units	deg C	deg C	units	units	mg/L	mg/L	mg/L	mg/L	mg/L		FC/100 mL	% TS	% TVS	mg/L SS
		MDL						0.03					2			
		Sample Type	G	G	G	G	G	24 HC	24 HC	8 G/DAY AVE	G		G	24 HC (3 G)		24 HC (48 G)
Date	Day	Sample Point	I	FE	I	FE	FE	FE	I	FE	FE		FE	Discharge Belt		Belt press
1-Nov	Wed								60	0.44				31.2	82.9	570
2-Nov	Thu		13.7	14.0	7.2	7.0	1.5		52	0.16				33.1	82.1	640
3-Nov	Fri		13.6	13.8	7.2	7.0	1.3			0.10				32.2	82.6	610
4-Nov	Sat									0.22				33.2	81.9	950
5-Nov	Sun		12.7	13.4	7.3	7.1			44	0.08				32.7	81.1	850
6-Nov	Mon		13.2	13.0	6.7	6.9	1.7		64	0.05	0.06		79	33.1	81.6	650
7-Nov	Tue		13.0	13.1	7.1	7.0	1.0		56	0.04	0.00		49	30.6	81.1	690
8-Nov	Wed		12.6	12.8	7.2	7.0	5.5		49	0.45	0.75		14	32.6	80.9	580
9-Nov	Thu						3.8			0.28				31.9	81.7	550
10-Nov	Fri									0.12				30.9	83.7	510
11-Nov	Sat									0.25				32.8	83.7	660
12-Nov	Sun		11.0	10.5	7.3	7.3				0.20				30.4	83.0	570
13-Nov	Mon								50	0.25				30.6	79.6	490
14-Nov	Tue		11.8	11.1	7.2	7.1	5.1		47	0.24				33.4	82.1	510
15-Nov	Wed		11.1	10.9	7.2	7.0	3.8		44	0.42				32.2	81.8	480
16-Nov	Thu						5.9		47	0.69	0.48		5	31.5	84.0	580
17-Nov	Fri		11.7	11.0	7.0	6.6	5.0			0.47	0.66	<	2	30.1	83.8	650
18-Nov	Sat									0.55	0.26		33	31.5	84.8	730
19-Nov	Sun		10.5	11.0	7.5	7.4				0.55	0.49		8	33.0	84.9	620
20-Nov	Mon		12.1	11.7	7.3	7.0	5.9		54	0.33	0.45		5	31.1	85.0	550
21-Nov	Tue		12.1	11.5	7.1	6.8	4.6		57	0.26	0.17		21	30.2	85.8	760
22-Nov	Wed		12.3	12.0	7.2	7.0	NR			0.40				30.3	84.8	770
23-Nov	Thu									0.21				31.2	85.9	NT
24-Nov	Fri								50	0.13				31.6	86.2	700
25-Nov	Sat		11.5	11.3	7.0	6.9	5.9		42	0.43				31.2	87.6	710
26-Nov	Sun		NT	NT	NT	NT	NT			0.47				31.6	87.6	480
27-Nov	Mon		11.1	11.3	6.9	6.6	2.8	18.5	54	0.41	0.52		4	32.3	85.9	390
28-Nov	Tue		10.5	11.1	6.9	6.8	5.0		58	0.69	0.86	<	2	32.1	86.1	480
29-Nov	Wed		10.0	11.0	6.9	6.7	3.4		62	0.75	0.40		2	31.4	85.5	500
30-Nov	Thu						6.0		61	1.20				30.9	86.0	500
MIN	MIN		10.0	10.5	6.7	6.6	1.0	18.5	42	0.04	0.00	<	2	30.1	79.6	390
MAX	MAX		13.7	14.0	7.5	7.4	6.0	18.5	64	1.20	0.86		79	33.4	87.6	950
AVE	AVE		11.9	11.9			4.0	18.5	53	0.36	0.43		9	31.7	83.8	611

November 2006

COMMENTS

Report Prepared By: Mark Spano, Water Quality Supervisor

Report Checked By: Paul Smith, Water Quality Tech II

Abbreviations

AVE	arithmetic average	ND	not detected	% REM	percent removal, calculated from daily concentrations
	(except Fecal Coli which is a geometric mean)	MGD	million gallons per day	%REM CALCTD	average percent removal, calculated from monthly
BOD5	biochemical oxygen demand, 5 day test	mg/L	milligrams per liter		average concentrations; reported on DMR per
CALCTD	calculated	mg/kg	milligrams per kilogram of dry weight		EPA guidelines
DO	dissolved oxygen	MPN	most probable number	S	sludge cake
deg C	degree(s) Celsius	NR	no analytical results or unusable data due	TDS	total dissolved solids
E	estimated result		to lab error or failure to meet quality control	TS	total solids
FE	final effluent		criteria	TSS	total suspended solids
G	grab	NT	not tested	TVS	total volatile solids
I	influent			VSS	volatile suspended solids
LWA	loading, weekly average			24 HC	24 hour flow composite
				24 HC (3G)	24 hour composite of one grab per each eight
					hour shift

Comments, Footnotes:

P.1: The final effluent autosampler is normally taken off line on Saturdays, Mondays, and Wednesdays for line cleaning for approximately 1.5 hours each time; the composite samples for BODs, TSS, etc. are therefore slightly less than a 24HC on these days. 11/24 & 25/06 BODs invalid - blank depletion outside of acceptable limits.

P.2: 11/22/06 DO was run, but the result appears impossibly high (10.9 mg/L). It was not retested, so it seems best to call the result invalid. Grab samples inadvertently collected 11/25/06 instead of 11/26/06 when they were scheduled; therefore 5 temps run one week and 3 the next week.
Filtrate autosampler off-line 11/23/06.

Wastewater metals, cyanide, and oil & grease analyses are conducted twice per year during toxic pollutant testing. Results are no longer reported on the MMR; they are filed in the toxic pollutant folders in the file room and reported in the annual report to EPA. Metals analyses on sludge for 40 CFR Part 503 are conducted periodically but are no longer reported on the MMR. Results are reported to EPA each year on February 19 on reports found in W:Wastewater\Asplund WWTF\Reports\Part503\.

Permit Exceedances:

~~T-6100~~ ~~T-110016~~ T-611001

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178	
Required Completion Date: ASAP	P.O. #:AK06-1021	KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Atherinops affinas* (Topsmelt), survival and growth test, 2) *Mytilus spp.*, survival and growth test, and 3)*Stronglocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently.

	Preservative: None (4^0 C)	**Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX005	1	10/30-31/06	0550-0550	Intact	T-611001-01A

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	10/31/06 1100	FED EX	JOSHUA BLATT	11-1-06/10:00
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): [signature]

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178	
Required Completion Date: ASAP	P.O. #:AK06-1021	KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Atherinops affinas* (Topsmelt), survival and growth test, 2) *Mytilus spp.*, survival and growth test, and 3) *Stronglocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently.

	Preservative: None (4°C)	**Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX006	1	10/2-2/06	0550-0550	Intact	T-611001 B

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	11/2/06 1105	FED Ex	Rigo Abarca	11/3/06
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): _____

T-611001-01c

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
ToxScan, Inc. 42 Hangar Way Watsonville, CA 95076 ATTN: Dave Lewis 831.761.7277	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Mark Savoie 907.276.6178
Required Completion Date: ASAP	P.O. #:AK06-1021 KLI Proj. #: 516.03

ANALYSIS TYPE: Static renewal chronic testing using 1) *Atherinops affinas* (Topsmelt), survival and growth test, 2) *Mytilus spp.*, survival and growth test, and *Stronglocentruss purpuratus* (Purple urchin) fertilization test. Test following procedures in accordance with *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Esturine Organisms*, (EPA/600/4-87/028). At least five dilutions must be tested, including a ZID boundary concentration of 0.70%, and two concentrations above (1.4 and 2.8%) and two concentrations below 0.70% (0.35 and 0.175). Reference toxicant testing must be performed concurrently.

Preservative: None (4^0 C)   **Type of Container:** 1 gallon cubitainer

SAMPLE IDENTIFICATION #	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TOX007	1	11/3-11/4/06	0600-0600		

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

COMMENTS: *Please return all completed original COCs to KLI Anchorage.*

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
Mark Savoie	11/4/06 1150	Fed-X	Sarah McGinnis	11/5/06 7:25
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): M. Savoie

APPENDIX D

Receiving Water Quality Monitoring

D1 Total Suspended Solids and Cyanide

Soil Control Lab

RECEIVING WATER, TOTAL CYANIDE AND TOTAL SUSPENDED SOLIDS, SOIL CONTROL LAB SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06TCN001	F1-1S	SAMPLE
MOA06TCN002	F1-2S	SAMPLE
MOA06TCN003	F1-3S	SAMPLE
MOA06TCN004	C1-1S	SAMPLE
MOA06TCN005	C1-2S	SAMPLE
MOA06TCN006	C1-2S	FIELD DUPLICATE
MOA06TCN007	C1-3S	SAMPLE
MOA06TCN008	EFFLUENT	SAMPLE
MOA06TSS001	F1-1S	SAMPLE
MOA06TSS002	F1-2S	SAMPLE
MOA06TSS003	F1-3S	SAMPLE
MOA06TSS004	C1-1S	SAMPLE
MOA06TSS005	C1-2S	SAMPLE
MOA06TSS006	C1-2S	FIELD DUPLICATE
MOA06TSS007	C1-3S	SAMPLE
MOA06TSS008	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: Tim Mayers

August 27, 2006

RE: None provided / 516.01
Workorder: 6060860

Dear Tim Mayers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 6/30/2006 10:00:00 AM.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Mike Galloway

Mike Galloway
Lab Manager
Enclosure(s)

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

SAMPLE SUMMARY

Laboratory ID	Client ID	Station ID	Matrix	Sampled	Received
6060860-01	MOA06TSS001	F1-1S	Water	06/27/06 16:03	06/30/06 10:00
6060860-02	MOA06TSS002	F1-2S	Water	06/27/06 16:35	06/30/06 10:00
6060860-03	MOA06TSS003	F1-3S	Water	06/27/06 16:50	06/30/06 10:00
6060860-04	MOA06TSS004	C1-1S	Water	06/28/06 16:35	06/30/06 10:00
6060860-05	MOA06TSS005	C1-2S	Water	06/28/06 16:50	06/30/06 10:00
6060860-06	MOA06TSS006	C1-2S	Water	06/28/06 16:50	06/30/06 10:00
6060860-07	MOA06TSS007	C1-3S	Water	06/28/06 17:10	06/30/06 10:00
6060860-08	MOA06TSS008	Effluent	Water	06/28/06 08:00	06/30/06 10:00
6060860-09	MOA06TCN001	F1-1S	Water	06/27/06 16:03	06/30/06 10:00
6060860-10	MOA06TCN002	F1-2S	Water	06/27/06 16:35	06/30/06 10:00
6060860-11	MOA06TCN003	F1-3S	Water	06/27/06 16:50	06/30/06 10:00
6060860-12	MOA06TCN004	C1-1S	Water	06/28/06 16:35	06/30/06 10:00
6060860-13	MOA06TCN005	C1-2S	Water	06/28/06 16:50	06/30/06 10:00
6060860-14	MOA06TCN006	C1-2S	Water	06/28/06 16:50	06/30/06 10:00
6060860-15	MOA06TCN007	C1-3S	Water	06/28/06 17:10	06/30/06 10:00
6060860-16	MOA06TCN008	Effluent	Water	06/28/06 08:00	06/30/06 10:00

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS001
Matrix: Water
Laboratory #: 6060860-01

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	250	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS002
Matrix: Water
Laboratory #: 6060860-02

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	340	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS003
Matrix: Water
Laboratory #: 6060860-03

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	290	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS004
Matrix: Water
Laboratory #: 6060860-04

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	110	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity, a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS005
Matrix: Water
Laboratory #: 6060860-05

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	110	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS006
Matrix: Water
Laboratory #: 6060860-06

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	100	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS007
Matrix: Water
Laboratory #: 6060860-07

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	220	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TSS008
Matrix: Water
Laboratory #: 6060860-08

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Total Suspended Solids	43	mg/L	1.0	0.10	1	EPA 160.2	07/03/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN001
Matrix: Water
Laboratory #: 6060860-09

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.11	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	J

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN002
Matrix: Water
Laboratory #: 6060860-10

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.39	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	J

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN003
Matrix: Water
Laboratory #: 6060860-11

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	ND	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN004
Matrix: Water
Laboratory #: 6060860-12

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	ND	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN005
Matrix: Water
Laboratory #: 6060860-13

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	ND	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN006
Matrix: Water
Laboratory #: 6060860-14

	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	07/06/06	J

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN007
Matrix: Water
Laboratory #: 6060860-15

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.17	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	J

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Date Received: June 30, 2006
Project # / Name: 516.01 / None provided
Sample Identification: MOA06TCN008
Matrix: Water
Laboratory #: 6060860-16

	Results	Units	RL	MDL	Dilution Factor	Analysis Method	Date Analyzed	Flags
Cyanide (total)	0.39	ug/L	1.0	0.10	1	EPA 335.2	07/06/06	J

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

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 PH60223 - NO PREP - PHYSICAL											
Blank (PH60223-BLK1)					Prepared & Analyzed: 03-Jul-06						
Total Suspended Solids	ND		1.0	mg/L							
Duplicate (PH60223-DUP1)			**Source: 6060860-08**		Prepared & Analyzed: 03-Jul-06						
Total Suspended Solids	48.24		1.0	mg/L		42.94			11.6	20	
Batch PH60224 - NO PREP - PHYSICAL											
Blank (PH60224-BLK1)					Prepared & Analyzed: 06-Jul-06						
Cyanide (total)	ND	0.10	1.0	ug/L							
Duplicate (PH60224-DUP1)			**Source: 6060860-09**		Prepared & Analyzed: 06-Jul-06						
Cyanide (total)	0.1217	0.10	1.0	ug/L		0.1068			13.0	20	J
Matrix Spike (PH60224-MS1)			**Source: 6060860-12**		Prepared & Analyzed: 06-Jul-06						
Cyanide (total)	2.829	0.10	1.0	ug/L	3.333	ND	84.9	80-120		20	
Matrix Spike Dup (PH60224-MSD1)			**Source: 6060860-12**		Prepared & Analyzed: 06-Jul-06						
Cyanide (total)	2.725	0.10	1.0	ug/L	3.333	ND	81.8	80-120	3.75	20	
Reference (PH60224-SRM1)					Prepared & Analyzed: 06-Jul-06						
Cyanide (total)	511.2	3.0	30	ug/L	483.0		106	70-130			

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Kinnetic Laboratories - Anchorage
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: 6060860
Reporting Date: August 27, 2006

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

RL - are levels down to which we can quantify with reliablity a result below this level is reported as "ND" for Not Detected.

Fed Ex 2.5°C

6060860

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Soil Control Lab 42 Hangar Way Watsonville, CA 95076 Attn: Mike Galloway (831)724-4522	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1010 | **KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Suspended Solids. **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
MOA06TSS001	F1-1S	1	6/27/06	1603	Intact	6060860-01
MOA06TSS002	F1-2S	1	↓	1635	↓	-02
MOA06TSS003	F1-3S	1	↓	1650	↓	-03
MOA06TSS004	C1-1S	1	6/28/06	1635	↓	-04
MOA06TSS005	C1-2S	1	↓	1650	↓	-05
MOA06TSS006	C1-2S	1	↓	1650	↓	-06
MOA06TSS007	C1-3S	1	↓	1710	↓	-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.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/29/06 11:05	Fed-X	[signature]	6/30/06, 1000
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\moa06\Field_06_Tim\COCs\tmRW05COC.wpd

Fed Ex 2.5°C

(2381)

6060860

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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Suspended Solids. **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
MOA06TSS008	EFFLUENT	1	6/27-28/06	0800-0800	Intact	6060860-08

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.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/28/06	[signature]	[signature]	6/28/06 0950
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
[signature]	6/29/06 1105	FED EX	[signature]	6/30/06 1000
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_EFF05COC.wpd

Fed Ex 2.5°C

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:** 60608600
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: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Cyanide (EPA 335.2). **Detection limit < 2 µg/L.** ***CHANGE TO <1 µg/L***

MATRIX: Water	**Preservative:** NaOH to pH 12.5	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TCN001	F1-1S	1	6/27/06	1613	Intact	60608600-9
MOA06TCN002	F1-2S	1	↓	1635	↓	-10
MOA06TCN003	F1-3S	1	↓	1650	↓	-11
MOA06TCN004	C1-1S	1	6/28/06	1635	↓	-12
MOA06TCN005	C1-2S	1	↓	1650	↓	-13
MOA06TCN006	C1-2S	1	↓	1650	↓	-14
MOA06TCN007	C1-3S	1	↓	1710	↓	-15

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]	6/27/06 11:05	FED-X	[signature]	6/30/06, 1000
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\moa06\Field_06_Tim\COCs\tmRW05COC.wpd

Fed Ex 2.50

LABORATORY:	**FROM:** 6060860	
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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1010	**KLI Proj. #:** 516.02

ANALYSIS TYPE: Total Cyanide (EPA 335.2). **Detection limit < 2 µg/L.** ***CHANGE TO <1 µg/L***

MATRIX: Water	**Preservative:** NaOH to pH 12.5	**Type of Container:** 1-L HDPE

SAMPLE IDENTIFICATION #	STATION LOCATION	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	CONDITION UPON RECEIPT	ASSIGNED LABORATORY NUMBER
MOA06TCN008	EFFLUENT	1	6/27-28/06	0800-0800	Intact	6060860-16

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.

RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06	hand		6/28/06 0830
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/29/06 1105	FedEx		6/30/06 1000
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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APPENDIX D

Receiving Water Quality Monitoring

D2 Aromatic Hydrocarbons

Severn Trent Laboratories, Inc.

RECEIVING WATER, HYDROCARBONS, STL SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06VOA001	F1-1S	SAMPLE
MOA06VOA002	F1-2S	SAMPLE
MOA06VOA003	F1-2S	FIELD DUPLICATE
MOA06VOA004	F1-3S	SAMPLE
MOA06VOA005	C1-1S	SAMPLE
MOA06VOA006	C1-2S	SAMPLE
MOA06VOA007	C1-3S	SAMPLE
MOA06VOA008	EFFLUENT	SAMPLE
MOA06VOA009	C-STATION	FIELD BLANK
MOA06VOA010	TRIP BLANK	TRIP BLANK
MOA06VOA011	C-STATION	FIELD DUPLICATE

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

KLI Project # 516.02

Lot D6G030128

Tim Mayers

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

SEVERN TRENT LABORATORIES, INC. / STL DENVER

Michael P. Phillips

Michael P. Phillips
Project Manager

July 25, 2006

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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.*	25

- **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
D6G030128

The following report contains the analytical results for eleven samples submitted to STL Denver by Kinnetic Laboratories. The samples were received July 3, 2006, according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each data sheet to assist in the interpretation of the results. In some cases, due to interferences or analytes present above the linear calibration curve, samples must be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits are adjusted relative to the dilution required. Dilutions made for reasons other than the presence of target compound(s) are addressed in the Supplemental Information Section.

STL Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter listed on the methods summary page in accordance with the method indicated. A summary of QC data for this analysis is included near the end of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory in good condition at a cooler temperature of 5.4°C.

No anomalies were observed.

Volatile Organic Compounds, EPA Method 602

The MS/MSD was performed using sample MOA06VOA005 and was in control.

No anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D6G030128

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MOA06VOA001 06/27/06 16:03 001				
Toluene	1.3	0.50	ug/L	CFR136A 602
Xylenes (total)	1.0	0.50	ug/L	CFR136A 602
m-Xylene & p-Xylene	1.0	0.50	ug/L	CFR136A 602
MOA06VOA003 06/27/06 16:35 003				
Benzene	0.41 J	0.50	ug/L	CFR136A 602
Toluene	0.35 J	0.50	ug/L	CFR136A 602
MOA06VOA008 06/27/06 15:07 010				
Benzene	0.43 J	0.50	ug/L	CFR136A 602
Ethylbenzene	3.8	0.50	ug/L	CFR136A 602
Toluene	11	0.50	ug/L	CFR136A 602
o-Xylene	5.3	0.50	ug/L	CFR136A 602
Xylenes (total)	17	0.50	ug/L	CFR136A 602
m-Xylene & p-Xylene	12	0.50	ug/L	CFR136A 602

METHODS SUMMARY

D6G030128

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Purgeable Aromatics	CFR136A 602	CFR136A 602

References:

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

METHOD / ANALYST SUMMARY

D6G030128

ANALYTICAL METHOD	ANALYST	ANALYST ID
CFR136A 602	Adam Pavlakovich	003128

References:

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

SAMPLE SUMMARY

D6G030128

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H8MJV	001	MOA06VOA001	06/27/06	16:03
H8MJW	002	MOA06VOA002	06/27/06	16:35
H8MJX	003	MOA06VOA003	06/27/06	16:35
H8MJ0	004	MOA06VOA004	06/27/06	16:50
H8MJ1	005	MOA06VOA005	06/28/06	16:35
H8MJ2	006	MOA06VOA006	06/28/06	16:50
H8MJ3	007	MOA06VOA007	06/28/06	17:10
H8MJ4	008	MOA06VOA009	06/28/06	16:50
H8MJ5	009	MOA06VOA010	06/28/06	
H8MJ6	010	MOA06VOA008	06/27/06	15:07
H8MJ8	011	MOA06VOA011	06/27/06	15:00

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.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA001

GC Volatiles

Lot-Sample #...: D6G030128-001 **Work Order #...:** H8MJV1AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 16:03 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 14:50
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	**1.3**	**0.50**	**ug/L**	**0.17**
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	**1.0**	**0.50**	**ug/L**	**0.19**
m-Xylene & p-Xylene	**1.0**	**0.50**	**ug/L**	**0.19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	105	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA002

GC Volatiles

Lot-Sample #...: D6G030128-002 **Work Order #...:** H8MJW1AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 16:35 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 15:27
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	108	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA003

GC Volatiles

Lot-Sample #...: D6G030128-003 **Work Order #...:** H8MJX1AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 16:35 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 16:01
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.41 J**	**0.50**	**ug/L**	**0.35**
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	**0.35 J**	**0.50**	**ug/L**	**0.17**
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	108	(82 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA004

GC Volatiles

Lot-Sample #...: D6G030128-004 **Work Order #...:** H8MJ01AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 16:50 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 16:38
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA005

GC Volatiles

Lot-Sample #...: D6G030128-005 **Work Order #...:** H8MJ11AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 16:35 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 17:15
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	105	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA006

GC Volatiles

Lot-Sample #...: D6G030128-006 **Work Order #...:** H8MJ21AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 16:50 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 19:42
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA007

GC Volatiles

Lot-Sample #...: D6G030128-007 **Work Order #...:** H8MJ31AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 17:10 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 20:18
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA009

GC Volatiles

Lot-Sample #...: D6G030128-008 **Work Order #...:** H8MJ41AA **Matrix.....:** WATER
Date Sampled...: 06/28/06 16:50 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 20:55
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA010

GC Volatiles

Lot-Sample #...: D6G030128-009
Date Sampled...: 06/28/06
Prep Date.....: 07/10/06
Prep Batch #...: 6192190
Dilution Factor: 1

Work Order #...: H8MJ51AA
Date Received..: 07/03/06
Analysis Date..: 07/10/06
Analysis Time..: 21:31

Method.....: CFR136A 602

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA008

GC Volatiles

Lot-Sample #...:	D6G030128-010	**Work Order #...:**	H8MJ61AA	**Matrix.....:**	WATER
Date Sampled...:	06/27/06 15:07	**Date Received..:**	07/03/06		
Prep Date.....:	07/10/06	**Analysis Date..:**	07/10/06		
Prep Batch #...:	6192190	**Analysis Time..:**	22:07		
Dilution Factor:	1				
		Method.....:	CFR136A 602		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	**0.43 J**	**0.50**	**ug/L**	**0.35**
Ethylbenzene	**3.8**	**0.50**	**ug/L**	**0.10**
Toluene	**11**	**0.50**	**ug/L**	**0.17**
o-Xylene	**5.3**	**0.50**	**ug/L**	**0.23**
Xylenes (total)	**17**	**0.50**	**ug/L**	**0.19**
m-Xylene & p-Xylene	**12**	**0.50**	**ug/L**	**0.19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(82 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Kinnetics Laboratories, Inc.

Client Sample ID: MOA06VOA011

GC Volatiles

Lot-Sample #...: D6G030128-011 **Work Order #...:** H8MJ81AA **Matrix.....:** WATER
Date Sampled...: 06/27/06 15:00 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 22:43
Dilution Factor: 1

Method.....: CFR136A 602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.50	ug/L	0.35
Ethylbenzene	ND	0.50	ug/L	0.10
Toluene	ND	0.50	ug/L	0.17
o-Xylene	ND	0.50	ug/L	0.23
Xylenes (total)	ND	0.50	ug/L	0.19
m-Xylene & p-Xylene	ND	0.50	ug/L	0.19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)

QC DATA ASSOCIATION SUMMARY

D6G030128

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	CFR136A 602		6192190	6192124
002	WATER	CFR136A 602		6192190	6192124
003	WATER	CFR136A 602		6192190	6192124
004	WATER	CFR136A 602		6192190	6192124
005	WATER	CFR136A 602		6192190	6192124
006	WATER	CFR136A 602		6192190	6192124
007	WATER	CFR136A 602		6192190	6192124
008	WATER	CFR136A 602		6192190	6192124
009	WATER	CFR136A 602		6192190	6192124
010	WATER	CFR136A 602		6192190	6192124
011	WATER	CFR136A 602		6192190	6192124

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: D6G030128 **Work Order #...:** H80DD1AA **Matrix.....:** WATER
MB Lot-Sample #: D6G110000-190

Prep Date.....: 07/10/06 **Analysis Time..:** 13:44
Analysis Date..: 07/10/06 **Prep Batch #...:** 6192190
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.50	ug/L	CFR136A 602
Ethylbenzene	ND	0.50	ug/L	CFR136A 602
Toluene	ND	0.50	ug/L	CFR136A 602
o-Xylene	ND	0.50	ug/L	CFR136A 602
Xylenes (total)	ND	0.50	ug/L	CFR136A 602
m-Xylene & p-Xylene	ND	0.50	ug/L	CFR136A 602

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	106	(82 - 112)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: D6G030128 **Work Order #...:** H80DD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G110000-190 H80DD1AD-LCSD
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 12:31
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**99**	**(75 - 113)**			**CFR136A 602**
	98	**(75 - 113)**	**1.7**	**(0-15)**	**CFR136A 602**
Toluene	**97**	**(79 - 113)**			**CFR136A 602**
	95	**(79 - 113)**	**1.8**	**(0-15)**	**CFR136A 602**
Ethylbenzene	**100**	**(82 - 115)**			**CFR136A 602**
	97	**(82 - 115)**	**3.6**	**(0-15)**	**CFR136A 602**
Xylenes (total)	**96**	**(82 - 115)**			**CFR136A 602**
	94	**(82 - 115)**	**1.7**	**(0-15)**	**CFR136A 602**
Chlorobenzene	**98**	**(83 - 115)**			**CFR136A 602**
	97	**(83 - 115)**	**1.1**	**(0-15)**	**CFR136A 602**
1,3-Dichlorobenzene	**93**	**(80 - 120)**			**CFR136A 602**
	92	**(80 - 120)**	**0.75**	**(0-15)**	**CFR136A 602**
1,4-Dichlorobenzene	**93**	**(80 - 122)**			**CFR136A 602**
	93	**(80 - 122)**	**0.95**	**(0-15)**	**CFR136A 602**
1,2-Dichlorobenzene	**94**	**(81 - 118)**			**CFR136A 602**
	94	**(81 - 118)**	**0.55**	**(0-15)**	**CFR136A 602**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene **(TFT)**	105	(82 - 112)
	104	(82 - 112)

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 Volatiles

Client Lot #...: D6G030128 **Work Order #...:** H80DD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D6G110000-190 H80DD1AD-LCSD
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 12:31
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**20.0**	**19.9**	**ug/L**	**99**		**CFR136A 602**
	20.0	**19.5**	**ug/L**	**98**	**1.7**	**CFR136A 602**
Toluene	**20.0**	**19.3**	**ug/L**	**97**		**CFR136A 602**
	20.0	**19.0**	**ug/L**	**95**	**1.8**	**CFR136A 602**
Ethylbenzene	**20.0**	**20.0**	**ug/L**	**100**		**CFR136A 602**
	20.0	**19.3**	**ug/L**	**97**	**3.6**	**CFR136A 602**
Xylenes (total)	**60.0**	**57.4**	**ug/L**	**96**		**CFR136A 602**
	60.0	**56.5**	**ug/L**	**94**	**1.7**	**CFR136A 602**
Chlorobenzene	**20.0**	**19.7**	**ug/L**	**98**		**CFR136A 602**
	20.0	**19.5**	**ug/L**	**97**	**1.1**	**CFR136A 602**
1,3-Dichlorobenzene	**20.0**	**18.5**	**ug/L**	**93**		**CFR136A 602**
	20.0	**18.4**	**ug/L**	**92**	**0.75**	**CFR136A 602**
1,4-Dichlorobenzene	**20.0**	**18.7**	**ug/L**	**93**		**CFR136A 602**
	20.0	**18.5**	**ug/L**	**93**	**0.95**	**CFR136A 602**
1,2-Dichlorobenzene	**20.0**	**18.9**	**ug/L**	**94**		**CFR136A 602**
	20.0	**18.8**	**ug/L**	**94**	**0.55**	**CFR136A 602**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene **(TFT)**	105	(82 - 112)
	104	(82 - 112)

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 Volatiles

Client Lot #...: D6G030128 **Work Order #...:** H8MJ11AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D6G030128-005 H8MJ11AD-MSD
Date Sampled...: 06/28/06 16:35 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 17:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Toluene	**100**	**(79 - 113)**			**CFR136A 602**
	97	**(79 - 113)**	**3.7**	**(0-15)**	**CFR136A 602**
Ethylbenzene	**104**	**(82 - 115)**			**CFR136A 602**
	100	**(82 - 115)**	**3.5**	**(0-15)**	**CFR136A 602**
Xylenes (total)	**97**	**(82 - 115)**			**CFR136A 602**
	96	**(82 - 115)**	**1.2**	**(0-15)**	**CFR136A 602**
Benzene	**103**	**(75 - 113)**			**CFR136A 602**
	99	**(75 - 113)**	**4.0**	**(0-15)**	**CFR136A 602**
Chlorobenzene	**101**	**(83 - 115)**			**CFR136A 602**
	99	**(83 - 115)**	**2.1**	**(0-15)**	**CFR136A 602**
1,3-Dichlorobenzene	**99**	**(80 - 120)**			**CFR136A 602**
	96	**(80 - 120)**	**2.7**	**(0-15)**	**CFR136A 602**
1,4-Dichlorobenzene	**96**	**(80 - 122)**			**CFR136A 602**
	95	**(80 - 122)**	**1.6**	**(0-15)**	**CFR136A 602**
1,2-Dichlorobenzene	**97**	**(81 - 118)**			**CFR136A 602**
	96	**(81 - 118)**	**1.5**	**(0-15)**	**CFR136A 602**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)
	105	(82 - 112)

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 Volatiles

Client Lot #...: D6G030128 **Work Order #...:** H8MJ11AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D6G030128-005 H8MJ11AD-MSD
Date Sampled...: 06/28/06 16:35 **Date Received..:** 07/03/06
Prep Date.....: 07/10/06 **Analysis Date..:** 07/10/06
Prep Batch #...: 6192190 **Analysis Time..:** 17:52
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	**ND**	**20.0**	**20.1**	**ug/L**	**100**		**CFR136A 602**
	ND	**20.0**	**19.4**	**ug/L**	**97**	**3.7**	**CFR136A 602**
Ethylbenzene	**ND**	**20.0**	**20.8**	**ug/L**	**104**		**CFR136A 602**
	ND	**20.0**	**20.0**	**ug/L**	**100**	**3.5**	**CFR136A 602**
Xylenes (total)	**ND**	**60.0**	**58.1**	**ug/L**	**97**		**CFR136A 602**
	ND	**60.0**	**57.4**	**ug/L**	**96**	**1.2**	**CFR136A 602**
Benzene	**ND**	**20.0**	**20.7**	**ug/L**	**103**		**CFR136A 602**
	ND	**20.0**	**19.9**	**ug/L**	**99**	**4.0**	**CFR136A 602**
Chlorobenzene	**ND**	**20.0**	**20.3**	**ug/L**	**101**		**CFR136A 602**
	ND	**20.0**	**19.9**	**ug/L**	**99**	**2.1**	**CFR136A 602**
1,3-Dichlorobenzene	**ND**	**20.0**	**19.8**	**ug/L**	**99**		**CFR136A 602**
	ND	**20.0**	**19.3**	**ug/L**	**96**	**2.7**	**CFR136A 602**
1,4-Dichlorobenzene	**ND**	**20.0**	**19.2**	**ug/L**	**96**		**CFR136A 602**
	ND	**20.0**	**18.9**	**ug/L**	**95**	**1.6**	**CFR136A 602**
1,2-Dichlorobenzene	**ND**	**20.0**	**19.4**	**ug/L**	**97**		**CFR136A 602**
	ND	**20.0**	**19.1**	**ug/L**	**96**	**1.5**	**CFR136A 602**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	107	(82 - 112)
	105	(82 - 112)

NOTE(S):

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

Bold print denotes control parameters

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06VOA001	F1-1S	3	6/27/06	1603		
MOA06VOA002	F1-2S	3	↓	1635		
MOA06VOA003	F1-2S	3	↓	1635		
MOA06VOA004	F1-3S	3	↓	1650		
MOA06VOA005	C1-1S	6	6/28/06	1635		
MOA06VOA006	C1-2S	3	↓	1650		
MOA06VOA007	C1-3S	3	↓	1710		
MOA06VOA009	C-STATION	3	↓	1650		
MOA06VOA010	TRIP BLANK	3	N/A	–		

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]	6/29/06 1200	FED-X	[signature]	7/3/06 0800
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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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

5.4 7/3/06 - IRI

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1012 | **KLI Proj. #:** 516.02

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
MOA06VOA008	EFFLUENT	3	6/27/06	1507		
MOA06VOA011	C-Station	3	6/27/06	1500		

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]	6/28/06 0935 29 PM	[signature]	[signature]	6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
			[signature]	7/3/06 0800
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**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
MOA06VOA001	F1-1S	3	6/27/06	1603		
MOA06VOA002	F1-2S	3	↓	1635		
MOA06VOA003	F1-2S	3	↓	1635		
MOA06VOA004	F1-3S	3	↓	1650		
MOA06VOA005	C1-1S	6	6/28/06	1635		
MOA06VOA006	C1-2S	3	↓	1650		
MOA06VOA007	C1-3S	3	↓	1910		
MOA06VOA009	C-STATION	3	↓	1650		
MOA06VOA010	TRIP BLANK	3	N/A	–		

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]	6/29/06 1200	FED-X	[signature]	7/3/06 0800
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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KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

5.4° 6/13/06 ISR1

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Severn Trent Laboratories, Inc. 4955 Yarrow St. Arvada, CO 80002 (303) 736-0100 Attn: Mike Phillips	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1012	**KLI Proj. #:** 516.02

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
MOA06VOA008	EFFLUENT	3	6/27/06	1507		
MOA06VOA011	C-Station	3	6/27/06	1500		

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
	6/28/06 0935	FedEx		6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
				7/3/06 0800
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

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APPENDIX D

Receiving Water Quality Monitoring

D3 Polycyclic Aromatic Hydrocarbons

Texas A&M GERG

RECEIVING WATER, PAH, GERG SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06PAH001	F1-1S	SAMPLE
MOA06PAH002	F1-2S	SAMPLE
MOA06PAH003	F1-3S	SAMPLE
MOA06PAH004	C1-1S	SAMPLE
MOA06PAH005	C1-2S	SAMPLE
MOA06PAH006	C1-3S	SAMPLE
MOA06PAH007	EFFLUENT	SAMPLE

GERG
GEOCHEMICAL & ENVIRONMENTAL RESEARCH GROUP
College of Geosciences
Texas A&M University

Kinnetic Laboratories
Municipality of Anchorage 2006 Sampling
Case Narrative: PAH
Analytical Report No. G7416-A

I. Background

Seven water samples were received in duplicate under chain of custody in one sample delivery group on July 1, 2006. Samples were logged in under chain of custody and stored at 2°C. One water sample of each duplicate pair was extracted and analyzed for polynuclear aromatic hydrocarbons (PAHs) as requested.

II. Analysis Request

A. Standard Operating Procedures

The water samples were extracted and analyzed following the protocol contained in the following SOP used at GERG:

SOP-0001

Extracting of Water Samples for the Analysis of Organic Compounds Using the Separatory Funnel Technique. Rev. 1 as of March 1, 2000.

SOP-9733

Quantitative Determination Of Polynuclear Aromatic Hydrocarbons By Gas Chromatography/Mass Spectrometry Using The Selected Ion Monitoring Mode. Rev. 3 As of October 16, 1998.

B. SOP Modifications

None needed

II. Quality Control

Calibrations for Aromatic Hydrocarbons

The analytes are calculated using an average response factor based on the form:

$$RRF\ (n) = \frac{Ax\ *\ Cqs}{Aqs\ *\ Cx}$$

The deuterated surrogates are calculated using an average response factor based on the form:

$$RRF(m) = \frac{Aqs * Cis}{Ais * Cqs}$$

where:

Ax = sum of the integrated ion abundances of the quantitation ions for unlabeled PAHs,

Aqs = sum of the integrated ion abundances of the quantitation ions for the deuterated quantitation standards,

Ais = sum of the integrated ion abundances of the quantitation ions for the deuterated internal standards,

Cx = concentration of the unlabeled PAH analyte in the calibration solution (ng/mL),

Cqs = concentration of the deuterated quantitation standard in the calibration solution, and

Cqs = concentration of the deuterated internal standard in the calibration solution

Calibration data used in the quantitation of detected analytes met the calibration criteria; no deviations beyond the control limits were observed. All of the calibration standards had average percent deviations less than 15%, and no analyte was greater than 25% deviation.

Example Calculations for Aromatic Hydrocarbons

A. Sample Concentration

The concentration of the target analytes and the recovery of the deuterated quantitation standards are calculated using the following equations:

$$Cx = \frac{Ax * Cqs}{Aqs * \overline{RRF(n)}}$$

$$\%\ Recovery = \frac{Ax * Cis * 100}{Ais * Cqs * \overline{RRF(m)}}$$

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 analysis is compared to the running average for the laboratory for all single analyte peaks, which are primarily non-alkylated analytes. The control limits for the GERG STD Check samples (REF Oil) are plus or minus 35% of the laboratory average for each single component analyte. No control limits are applied to the alkylated PAH homologue clusters (multi-peak analytes)

because the variation in the analytical results (and associated uncertainty) increases with increased alkylation and increased number of homologues within the cluster. This effect can be seen in the data table that includes the laboratory average and one standard deviation for each analyte. 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 results are enclosed. 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 three surrogates were below the QC limits for one sample, MOA06PAH007 (GERG ID C52855). The peaks for both the surrogates and the GC internal standard were checked. Little improvement could be made. There seems to be some interference with the GC internal standard, specifically the d10-fluorene. This would underestimate the recoveries. The data is based on the surrogates so that this will not affect the concentrations. The recoveries are qualified "I" to denote the interference. No further action was taken.

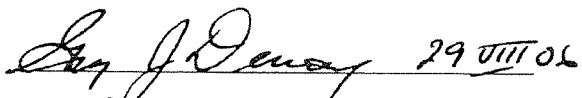
No analytes were measured above three times the MDL in the procedural blank for PAH analyses. No further action was required.

The recoveries for the spike blank and spike blank duplicate for the PAH analysis were within the QC limits. The average recoveries were 101.0 and 101.8%. The average RPD was 5.7%. The overall QA objectives were met. No further action was required.

The analytes for the Reference Oil analyses had no concentrations that exceeded the QC criteria. The overall QA objectives were met. No further action was taken.

No other QA variances were found for these data.

Reviewed and Approved:



29 VIII 06

Guy J. Denoux Ph.D.

Laboratory Manager

Sample Integrity Report
& Chains of Custody

Storage Location: Cooler

GERG SAMPLE RECEIVING/ INTEGRITY REPORT

Catalog: _____ Date Received: 12406 SDG#: G7416

Sender: Kinetic Labs AK
Tim Mayers - MOA

Proj Invest: Deepwater Notif. by (Name/Date): _____

1. Number of Shipping Containers: 1

Comments:

2. Airbill Present?
No (Yes)

Shipping Company:
(Fedex) UPS Airborne Express Other

Airbill Number: 792142430824

Comments: Day Late

3. Custody Seals on Container?
(No) Yes

(Intact) Not Intact

Comments: Tape only

4. Chain of Custody Records?
No (Yes)

Comments:

5. General Sample Condition:
Frozen Cool Unrefrigerated
Dry Ice (Blue Ice) Ice

Temperature/Comments: 2.9°C

6. List of Broken Containers:

7. Number of Waters: 14 Number of Tissues: _____ Number of Sediments: _____
Number of Other: _____ Total Number of Samples Received: 14

8. Problems/ Discrepancies:

9. Resolutions:

10. Checked in by: [signature] Date: 1 VII 01

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Texas A & M GERG 833 Graham Road College Station, TX 77845 Attn: Dr. Guy Denoux (979) 862-2323 ext 115	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 45 days | **P.O. #:** AK06-1009 | **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
MOA06PAH001	F1-1S	2	6/27/06	1603		
MOA06PAH002	F1-2S	2	↓	1635		
MOA06PAH003	F1-3S	2	↓	1650		
MOA06PAH004	C1-1S	2	6/28/06	1635		
MOA06PAH005	C1-2S	2	↓	1650		
MOA06PAH006	C1-3S	2	↓	1710		

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]	6/29/06 12:00	FAX	[signature]	1 VII 06
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\moa06\Field_06_Tim\COCs\tmRW05COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Texas A & M GERG 833 Graham Road College Station, TX 77845 Attn: Dr. Guy Denoux (979)862-2323	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 45 days	**P.O. #:** AK06-1009	**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:** 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
MOA06PAH007	EFFLUENT	2	6/27/06	1509		

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
	6/28/06 0935	hand		6/29/06 0930
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/29/06 1200	Fed-x		1 JUL 06
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_EFF05COC.wpd

Aromatic Hydrocarbon Data

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH001	MOA06PAH002
Sample Descriptor		
Original Sample		
GERG ID	C52849	C52850
Sample Type	SAMP	SAMP
SDG	G7416	G7416
Volume	0.94	0.96
Sample Size Units	Liters	Liters
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	M3412	M3412
Method	GCMS	GCMS
Collection Date	06/27/06	06/27/06
Collection Time	16:03	16:35
Receive Date	07/01/06	07/01/06
Extraction Date	07/01/06	07/01/06
Analysis Date	08/10/06	08/10/06
Surrogate Compounds	**%Recovery**	**%Recovery**
d8-Naphthalene	78.0	61.4
d10-Acenaphthene	91.9	74.8
d10-Phenanthrene	72.1	69.4
d12-Chrysene	109.4	114.8
d12-Perylene	78.2	78.6
Total PAHs	**Concentration**	**Concentration**
Total PAHs with Perylene	31.1	133.2
Total PAHs without Perylene	31.1	133.2

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH001			MOA06PAH002		
Sample Descriptor						
Original Sample						
GERG ID	C52849			C52850		
Sample Type	SAMP			SAMP		
SDG	G7416			G7416		
PAH Compounds	**Concentration**	**MDL**		**Concentration**	**MDL**	
Naphthalene	8.1	4.7		12.5	4.6	
C1-Naphthalenes	9.0	9.1	J	23.6	8.9	
C2-Naphthalenes	9.0	10.4	J	19.2	10.2	
C3-Naphthalenes		6.6	ND	22.7	6.4	
C4-Naphthalenes		6.6	ND		6.4	ND
Biphenyl	0.6	2.8	J	3.6	2.7	
Acenaphthylene		2.4	ND		2.3	ND
Acenaphthene		9.4	ND		9.2	ND
Fluorene		3.9	ND	1.9	3.8	J
C1-Fluorenes		7.8	ND	7.8	7.6	
C2-Fluorenes		7.8	ND	7.6	7.6	
C3-Fluorenes		7.8	ND	2.8	7.6	J
Phenanthrene	1.5	1.7	J	3.6	1.6	
Anthracene		3.2	ND		3.1	ND
C1-Phenanthrenes/Anthracenes		5.0	ND	7.7	4.9	
C2-Phenanthrenes/Anthracenes		5.0	ND	7.3	4.9	
C3-Phenanthrenes/Anthracenes		5.0	ND	7.5	4.9	
C4-Phenanthrenes/Anthracenes		5.0	ND		4.9	ND
Dibenzothiophene		1.3	ND	1.1	1.3	J
C1-Dibenzothiophenes		2.7	ND	3.5	2.6	
C2-Dibenzothiophenes		2.7	ND		2.6	ND
C3-Dibenzothiophenes		2.7	ND		2.6	ND
Fluoranthene		3.3	ND		3.2	ND
Pyrene		4.5	ND		4.4	ND
C1-Fluoranthenes/Pyrenes		7.8	ND		7.7	ND
C2-Fluoranthenes/Pyrenes		7.8	ND		7.7	ND
C3-Fluoranthenes/Pyrenes		7.8	ND		7.7	ND
Benzo(a)anthracene		2.2	ND		2.2	ND
Chrysene		2.2	ND		2.2	ND
C1-Chrysenes		4.4	ND		4.3	ND
C2-Chrysenes		4.4	ND		4.3	ND
C3-Chrysenes		4.4	ND		4.3	ND
C4-Chrysenes		4.4	ND		4.3	ND
Benzo(b)fluoranthene		3.9	ND		3.8	ND
Benzo(k)fluoranthene		2.5	ND		2.4	ND
Benzo(e)pyrene		2.4	ND		2.3	ND
Benzo(a)pyrene		5.5	ND		5.4	ND
Perylene		3.2	ND		3.1	ND
Indeno(1,2,3-c,d)pyrene		3.3	ND		3.2	ND
Dibenzo(a,h)anthracene		2.1	ND		2.0	ND
Benzo(g,h,i)perylene	2.9	2.1		0.8	2.1	J
2-Methylnaphthalene	4.9	4.6		12.5	4.5	
1-Methylnaphthalene	4.1	4.5	J	11.1	4.4	
2,6-Dimethylnaphthalene		5.2	ND	1.2	5.1	J
1,6,7-Trimethylnaphthalene		3.3	ND	1.0	3.2	J
1-Methylphenanthrene		2.5	ND	0.9	2.4	J

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH003	MOA06PAH004
Sample Descriptor		
Original Sample		
GERG ID	C52851	C52852
Sample Type	SAMP	SAMP
SDG	G7416	G7416
Volume	0.98	0.94
Sample Size Units	Liters	Liters
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	M3412	M3412
Method	GCMS	GCMS
Collection Date	06/27/06	06/28/06
Collection Time	16:50	16:35
Receive Date	07/01/06	07/01/06
Extraction Date	07/01/06	07/01/06
Analysis Date	08/10/06	08/10/06
Surrogate Compounds	**%Recovery**	**%Recovery**
d8-Naphthalene	65.0	79.3
d10-Acenaphthene	80.2	88.1
d10-Phenanthrene	64.1	70.9
d12-Chrysene	100.5	121.6
d12-Perylene	73.1	70.4
Total PAHs	**Concentration**	**Concentration**
Total PAHs with Perylene	39.9	20.5
Total PAHs without Perylene	38.1	20.5

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH003			MOA06PAH004		
Sample Descriptor						
Original Sample						
GERG ID	C52851			C52852		
Sample Type	SAMP			SAMP		
SDG	G7416			G7416		
PAH Compounds	**Concentration**	**MDL**		**Concentration**	**MDL**	
Naphthalene	6.0	4.5		4.7	4.7	
C1-Naphthalenes	11.8	8.7		8.5	9.1	J
C2-Naphthalenes	12.0	10.0		5.3	10.4	J
C3-Naphthalenes	8.7	6.3			6.6	ND
C4-Naphthalenes		6.3	ND		6.6	ND
Biphenyl	2.1	2.7	J		2.8	ND
Acenaphthylene		2.3	ND		2.4	ND
Acenaphthene		9.0	ND		9.4	ND
Fluorene		3.7	ND		3.9	ND
C1-Fluorenes		7.5	ND		7.8	ND
C2-Fluorenes		7.5	ND		7.8	ND
C3-Fluorenes		7.5	ND		7.8	ND
Phenanthrene	3.3	1.6		1.9	1.7	
Anthracene		3.1	ND	0.1	3.2	J
C1-Phenanthrenes/Anthracenes		4.8	ND		5.0	ND
C2-Phenanthrenes/Anthracenes		4.8	ND		5.0	ND
C3-Phenanthrenes/Anthracenes		4.8	ND		5.0	ND
C4-Phenanthrenes/Anthracenes		4.8	ND		5.0	ND
Dibenzothiophene		1.3	ND		1.3	ND
C1-Dibenzothiophenes	-6.5	2.6	J		2.7	ND
C2-Dibenzothiophenes		2.6	ND		2.7	ND
C3-Dibenzothiophenes		2.6	ND		2.7	ND
Fluoranthene		3.2	ND		3.3	ND
Pyrene		4.3	ND		4.5	ND
C1-Fluoranthenes/Pyrenes		7.5	ND		7.8	ND
C2-Fluoranthenes/Pyrenes		7.5	ND		7.8	ND
C3-Fluoranthenes/Pyrenes		7.5	ND		7.8	ND
Benzo(a)anthracene		2.1	ND		2.2	ND
Chrysene		2.1	ND		2.2	ND
C1-Chrysenes		4.2	ND		4.4	ND
C2-Chrysenes		4.2	ND		4.4	ND
C3-Chrysenes		4.2	ND		4.4	ND
C4-Chrysenes		4.2	ND		4.4	ND
Benzo(b)fluoranthene		3.7	ND		3.9	ND
Benzo(k)fluoranthene		2.4	ND		2.5	ND
Benzo(e)pyrene		2.3	ND		2.4	ND
Benzo(a)pyrene		5.3	ND		5.5	ND
Perylene	1.9	3.0	J		3.2	ND
Indeno(1,2,3-c,d)pyrene		3.1	ND		3.3	ND
Dibenzo(a,h)anthracene		2.0	ND		2.1	ND
Benzo(g,h,i)perylene	0.7	2.0	J		2.1	ND
2-Methylnaphthalene	6.9	4.4		5.2	4.6	
1-Methylnaphthalene	5.0	4.3		3.3	4.5	J
2,6-Dimethylnaphthalene		5.0	ND		5.2	ND
1,6,7-Trimethylnaphthalene		3.2	ND		3.3	ND
1-Methylphenanthrene		2.4	ND		2.5	ND

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH005	MOA06PAH006
Sample Descriptor		
Original Sample		
GERG ID	C52853	C52854
Sample Type	SAMP	SAMP
SDG	G7416	G7416
Volume	0.98	0.96
Sample Size Units	Liters	Liters
Matrix	Water	Water
Reporting Units	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	M3412	M3412
Method	GCMS	GCMS
Collection Date	06/28/06	06/28/06
Collection Time	16:50	17:10
Receive Date	07/01/06	07/01/06
Extraction Date	07/01/06	07/01/06
Analysis Date	08/10/06	08/10/06
Surrogate Compounds	**%Recovery**	**%Recovery**
d8-Naphthalene	49.9	50.9
d10-Acenaphthene	86.7	91.0
d10-Phenanthrene	66.6	72.0
d12-Chrysene	97.9	106.0
d12-Perylene	68.6	85.5
Total PAHs	**Concentration**	**Concentration**
Total PAHs with Perylene	27.8	48.7
Total PAHs without Perylene	27.8	48.7

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH005			MOA06PAH006		
Sample Descriptor						
Original Sample						
GERG ID	C52853			C52854		
Sample Type	SAMP			SAMP		
SDG	G7416			G7416		
PAH Compounds	**Concentration**	**MDL**		**Concentration**	**MDL**	
Naphthalene	7.2	4.5		5.1	4.6	
C1-Naphthalenes	7.7	8.7	J	13.4	8.9	
C2-Naphthalenes	7.5	10.0	J	10.3	10.2	
C3-Naphthalenes		6.3	ND	18.2	6.4	
C4-Naphthalenes		6.3	ND		6.4	ND
Biphenyl	0.4	2.7	J	0.5	2.7	J
Acenaphthylene		2.3	ND		2.3	ND
Acenaphthene		9.0	ND		9.2	ND
Fluorene		3.7	ND		3.8	ND
C1-Fluorenes		7.5	ND		7.6	ND
C2-Fluorenes		7.5	ND		7.6	ND
C3-Fluorenes		7.5	ND		7.6	ND
Phenanthrene	1.4	1.6	J	1.0	1.6	J
Anthracene	0.3	3.1	J	0.1	3.1	J
C1-Phenanthrenes/Anthracenes		4.8	ND		4.9	ND
C2-Phenanthrenes/Anthracenes		4.8	ND		4.9	ND
C3-Phenanthrenes/Anthracenes		4.8	ND		4.9	ND
C4-Phenanthrenes/Anthracenes		4.8	ND		4.9	ND
Dibenzothiophene		1.3	ND		1.3	ND
C1-Dibenzothiophenes		2.6	ND		2.6	ND
C2-Dibenzothiophenes		2.6	ND		2.6	ND
C3-Dibenzothiophenes		2.6	ND		2.6	ND
Fluoranthene		3.2	ND		3.2	ND
Pyrene		4.3	ND		4.4	ND
C1-Fluoranthenes/Pyrenes		7.5	ND		7.7	ND
C2-Fluoranthenes/Pyrenes		7.5	ND		7.7	ND
C3-Fluoranthenes/Pyrenes		7.5	ND		7.7	ND
Benzo(a)anthracene		2.1	ND		2.2	ND
Chrysene		2.1	ND		2.2	ND
C1-Chrysenes		4.2	ND		4.3	ND
C2-Chrysenes		4.2	ND		4.3	ND
C3-Chrysenes		4.2	ND		4.3	ND
C4-Chrysenes		4.2	ND		4.3	ND
Benzo(b)fluoranthene		3.7	ND		3.8	ND
Benzo(k)fluoranthene		2.4	ND		2.4	ND
Benzo(e)pyrene		2.3	ND		2.3	ND
Benzo(a)pyrene		5.3	ND		5.4	ND
Perylene		3.0	ND		3.1	ND
Indeno(1,2,3-c,d)pyrene		3.1	ND		3.2	ND
Dibenzo(a,h)anthracene		2.0	ND		2.0	ND
Benzo(g,h,i)perylene	3.2	2.0			2.1	ND
2-Methylnaphthalene	4.3	4.4	J	7.4	4.5	
1-Methylnaphthalene	3.4	4.3	J	6.1	4.4	
2,6-Dimethylnaphthalene		5.0	ND		5.1	ND
1,6,7-Trimethylnaphthalene		3.2	ND		3.2	ND
1-Methylphenanthrene		2.4	ND		2.4	ND

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH007	
Sample Descriptor		
Original Sample		
GERG ID	C52855	
Sample Type	SAMP	
SDG	G7416	
Volume	0.88	
Sample Size Units	Liters	
Matrix	Water	
Reporting Units	ng/L	
Calculation Basis (dry/wet)	Wet	
QC Batch ID	M3412	
Method	GCMS	
Collection Date	06/27/06	
Collection Time	15:09	
Receive Date	07/01/06	
Extraction Date	07/01/06	
Analysis Date	08/10/06	
Surrogate Compounds	**%Recovery**	
d8-Naphthalene	29.9	I
d10-Acenaphthene	36.6	I
d10-Phenanthrene	36.8	I
d12-Chrysene	54.4	
d12-Perylene	90.0	
Total PAHs	**Concentration**	
Total PAHs with Perylene	7302.2	
Total PAHs without Perylene	7288.3	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	MOA06PAH007
Sample Descriptor	
Original Sample	
GERG ID	C52855
Sample Type	SAMP
SDG	G7416

PAH Compounds	Concentration	MDL	
Naphthalene	601.2	5.0	
C1-Naphthalenes	968.6	9.7	
C2-Naphthalenes	866.9	11.1	
C3-Naphthalenes	888.5	7.0	
C4-Naphthalenes	490.5	7.0	
Biphenyl	72.2	3.0	
Acenaphthylene	4.2	2.6	
Acenaphthene	32.1	10.1	
Fluorene	63.0	4.2	
C1-Fluorenes	249.7	8.3	
C2-Fluorenes	563.2	8.3	
C3-Fluorenes	123.5	8.3	
Phenanthrene	252.5	1.8	
Anthracene	18.3	3.4	
C1-Phenanthrenes/Anthracenes	218.3	5.3	
C2-Phenanthrenes/Anthracenes	199.4	5.3	
C3-Phenanthrenes/Anthracenes	249.0	5.3	
C4-Phenanthrenes/Anthracenes	60.9	5.3	
Dibenzothiophene	45.4	1.4	
C1-Dibenzothiophenes	229.8	2.9	
C2-Dibenzothiophenes	112.6	2.9	
C3-Dibenzothiophenes	117.2	2.9	
Fluoranthene	94.6	3.5	
Pyrene	109.5	4.8	
C1-Fluoranthenes/Pyrenes	93.3	8.4	
C2-Fluoranthenes/Pyrenes	63.6	8.4	
C3-Fluoranthenes/Pyrenes	73.4	8.4	
Benzo(a)anthracene	27.6	2.4	
Chrysene	31.7	2.3	
C1-Chrysenes	50.0	4.7	
C2-Chrysenes	45.0	4.7	
C3-Chrysenes	60.7	4.7	
C4-Chrysenes	72.9	4.7	
Benzo(b)fluoranthene	43.5	4.2	
Benzo(k)fluoranthene	33.7	2.7	
Benzo(e)pyrene	13.5	2.6	
Benzo(a)pyrene	23.7	5.9	
Perylene	13.9	3.4	
Indeno(1,2,3-c,d)pyrene		3.5	ND
Dibenzo(a,h)anthracene	50.7	2.2	
Benzo(g,h,i)perylene	35.1	2.3	
2-Methylnaphthalene	551.0	4.9	
1-Methylnaphthalene	417.6	4.8	
2,6-Dimethylnaphthalene	107.8	5.6	
1,6,7-Trimethylnaphthalene	72.2	3.5	
1-Methylphenanthrene	39.7	2.7	

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	
Sample Descriptor	Proc Blank
Original Sample	
GERG ID	Q22786
Sample Type	BLANK
SDG	
Dry Weight	
Wet Weight	1.00
Sample Size Units	Liters
Matrix	Water
% solid	
% Lipid	
Reporting Units	ng/L
Calculation Basis (dry/wet)	Wet
QC Batch ID	M3412
Method	GCMS
Collection Date	
Receive Date	
Extraction Date	07/01/06
Analysis Date	08/09/06

Surrogate Compounds	**% Recovery**
d8-Naphthalene	45.8
d10-Acenaphthene	50.9
d10-Phenanthrene	44.5
d12-Chrysene	95.0
d12-Perylene	65.7

Total PAHs	**Concentration**
Total PAHs with Perylene	14.4
Total PAHs without Perylene	14.4

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	
Sample Descriptor	Proc Blank
Original Sample	
GERG ID	Q22786
Sample Type	BLANK
SDG	

PAH Compounds	Concentration	MDL	
Naphthalene	6.1	4.4	<3xMDL
C1-Naphthalenes		8.5	ND
C2-Naphthalenes		9.8	ND
C3-Naphthalenes		6.2	ND
C4-Naphthalenes		6.2	ND
Biphenyl	0.9	2.6	J
Acenaphthylene		2.3	ND
Acenaphthene		8.9	ND
Fluorene		3.7	ND
C1-Fluorenes		7.3	ND
C2-Fluorenes		7.3	ND
C3-Fluorenes		7.3	ND
Phenanthrene	3.8	1.6	<3xMDL
Anthracene		3.0	ND
C1-Phenanthrenes/Anthracenes		4.7	ND
C2-Phenanthrenes/Anthracenes		4.7	ND
C3-Phenanthrenes/Anthracenes		4.7	ND
C4-Phenanthrenes/Anthracenes		4.7	ND
Dibenzothiophene		1.3	ND
C1-Dibenzothiophenes		2.5	ND
C2-Dibenzothiophenes		2.5	ND
C3-Dibenzothiophenes		2.5	ND
Fluoranthene		3.1	ND
Pyrene		4.3	ND
C1-Fluoranthenes/Pyrenes		7.4	ND
C2-Fluoranthenes/Pyrenes		7.4	ND
C3-Fluoranthenes/Pyrenes		7.4	ND
Benzo(a)anthracene		2.1	ND
Chrysene		2.1	ND
C1-Chrysenes		4.1	ND
C2-Chrysenes		4.1	ND
C3-Chrysenes		4.1	ND
C4-Chrysenes		4.1	ND
Benzo(b)fluoranthene		3.7	ND
Benzo(k)fluoranthene		2.3	ND
Benzo(e)pyrene		2.3	ND
Benzo(a)pyrene		5.1	ND
Perylene		3.0	ND
Indeno(1,2,3-c,d)pyrene		3.1	ND
Dibenzo(a,h)anthracene		1.9	ND
Benzo(g,h,i)perylene	3.7		<3xMDL
2-Methylnaphthalene		4.3	ND
1-Methylnaphthalene		4.2	ND
2,6-Dimethylnaphthalene		4.9	ND
1,6,7-Trimethylnaphthalene		3.1	ND
1-Methylphenanthrene		2.4	ND
Average % Recovery			

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID		
Sample Descriptor	Lab Spike Blank	Lab Spike Blank Dup
Original Sample		
GERG ID	Q22787	Q22788
Sample Type	LBS	LBSD
SDG		
Dry Weight		
Wet Weight	1.00	1.00
Sample Size Units	Liters	Liters
Matrix	Water	Water
% solid		
% Lipid		
Reporting Units	ng/L	ng/L
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	M3412	M3412
Method	GCMS	GCMS
Collection Date		
Receive Date		
Extraction Date	07/01/06	07/01/06
Analysis Date	08/09/06	08/09/06
Surrogate Compounds	**% Recovery**	**% Recovery**
d8-Naphthalene	49.1	49.7
d10-Acenaphthene	54.2	54.8
d10-Phenanthrene	52.7	51.4
d12-Chrysene	110.0	123.2
d12-Perylene	74.9	77.2
Total PAHs	**Concentration**	**Concentration**
Total PAHs with Perylene	NA	NA
Total PAHs without Perylene	NA	NA

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID				
Sample Descriptor	Lab Spike Blank	Lab Spike Blank Dup		
Original Sample				
GERG ID	Q22787	Q22788		
Sample Type	LBS	LBSD		
SDG				
PAH Compounds	**% Recovery**	**% Recovery**		**%RPD**
Naphthalene	101.8	98.2		3.5
C1-Naphthalenes				
C2-Naphthalenes				
C3-Naphthalenes				
C4-Naphthalenes				
Biphenyl				
Acenaphthylene				
Acenaphthene				
Fluorene	99.5	97.0		2.6
C1-Fluorenes				
C2-Fluorenes				
C3-Fluorenes				
Phenanthrene	104.7	106.8		2.0
Anthracene	82.9	89.3		7.4
C1-Phenanthrenes/Anthracenes				
C2-Phenanthrenes/Anthracenes				
C3-Phenanthrenes/Anthracenes				
C4-Phenanthrenes/Anthracenes				
Dibenzothiophene	100.5	103.1		2.6
C1-Dibenzothiophenes				
C2-Dibenzothiophenes				
C3-Dibenzothiophenes				
Fluoranthene	108.0	111.3		3.1
Pyrene	103.2	104.5		1.2
C1-Fluoranthenes/Pyrenes				
C2-Fluoranthenes/Pyrenes				
C3-Fluoranthenes/Pyrenes				
Benzo(a)anthracene				
Chrysene	113.0	110.2		2.5
C1-Chrysenes				
C2-Chrysenes				
C3-Chrysenes				
C4-Chrysenes				
Benzo(b)fluoranthene	113.8	110.7		2.8
Benzo(k)fluoranthene	115.6	121.6	Q	5.1
Benzo(e)pyrene	82.1	99.4		19.1
Benzo(a)pyrene	89.2	95.7		7.1
Perylene	102.0	107.0		4.8
Indeno(1,2,3-c,d)pyrene	103.0	89.0		14.6
Dibenzo(a,h)anthracene	104.9	96.6		8.2
Benzo(g,h,i)perylene	92.0	87.6		4.9
2-Methylnaphthalene				
1-Methylnaphthalene				
2,6-Dimethylnaphthalene				
1,6,7-Trimethylnaphthalene				
1-Methylphenanthrene				
Average % Recovery	**101.0**	**101.8**		**5.7**

ND Not Detected
J <MDL
NA Not Applicable
Q Results Outside QC
I Interference
B Blank Contamination >3xMDL
D Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	
Sample Descriptor	GERG STD Check
Original Sample	
GERG ID	
Sample Type	STD CHK
SDG	

Dry Weight	
Wet Weight	
Sample Size Units	Milliliter
Matrix	Oil
% solid	
% Lipid	
Reporting Units	ng/mL
Calculation Basis (dry/wet)	

QC Batch ID	M3412
Method	GCMS
Collection Date	
Receive Date	
Extraction Date	
Analysis Date	08/08/06

Surrogate Compounds	**% Recovery**
d8-Naphthalene	NA
d10-Acenaphthene	NA
d10-Phenanthrene	NA
d12-Chrysene	NA
d12-Perylene	NA

Total PAHs	**Concentration**
Total PAHs with Perylene	11918.2
Total PAHs without Perylene	11918.2

ND	Not Detected
J	<MDL
NA	Not Applicable
Q	Results Outside QC
I	Interference
B	Blank Contamination >3xMDL
D	Dilution

Kinnetics Laboratories
Municipality of Anchorage

Client Sample ID	
Sample Descriptor	GERG STD Check
Original Sample	
GERG ID	
Sample Type	STD CHK
SDG	

PAH Compounds	Concentration	MDL			QC Acceptance Range -35% to +35%			Mean Lab Values Concentration	SD
Naphthalene	702.5	20.0		OK	271.2	to	898.6	541.4	124.2
C1-Naphthalenes	2443.4	20.0		OK	736.8	to	2645.0	1546.4	412.9
C2-Naphthalenes	2807.5	20.0		OK	744.9	to	2916.2	1653.1	507.1
C3-Naphthalenes	2200.6	20.0		OK	584.9	to	2227.3	1274.9	375.0
C4-Naphthalenes	1085.9	20.0		OK	306.5	to	1124.0	652.1	180.5
Biphenyl	70.1	20.0		<10xMDL	33.3	to	93.1	60.1	8.9
Acenaphthylene	2.5	20.0	J	<MDL	12.2	to	68.6	34.8	16.0
Acenaphthene	22.2	20.0		<10xMDL	1.3	to	15.4	6.7	4.7
Fluorene	58.7	20.0		<10xMDL	52.9	to	155.8	98.4	17.0
C1-Fluorenes	230.5	20.0		OK	134.8	to	411.5	256.1	48.7
C2-Fluorenes	301.1	20.0		OK	212.0	to	589.1	381.3	55.1
C3-Fluorenes	250.7	20.0		OK	146.9	to	523.7	307.0	81.0
Phenanthrene	137.1	20.0		<10xMDL	74.5	to	201.1	131.8	17.2
Anthracene	7.6	20.0	J	<MDL	-3.9	to	61.6	19.8	25.8
C1-Phenanthrenes/Anthracenes	319.5	20.0		OK	164.1	to	450.7	293.2	40.7
C2-Phenanthrenes/Anthracenes	349.7	20.0		OK	188.3	to	544.6	346.5	56.9
C3-Phenanthrenes/Anthracenes	316.4	20.0		OK	129.9	to	399.1	247.8	47.9
C4-Phenanthrenes/Anthracenes	61.4	20.0		<10xMDL	66.8	to	209.7	129.0	26.3
Dibenzothiophene	17.8	20.0	J	<MDL	9.4	to	26.5	17.1	2.6
C1-Dibenzothiophenes	86.6	20.0		<10xMDL	32.1	to	97.3	60.7	11.3
C2-Dibenzothiophenes	75.4	20.0		<10xMDL	29.8	to	91.9	57.0	11.1
C3-Dibenzothiophenes	47.0	20.0		<10xMDL	20.6	to	65.7	40.1	8.5
Fluoranthene	3.7	20.0	J	<MDL	1.5	to	17.4	7.6	5.3
Pyrene	1.9	20.0	J	<MDL	-3.8	to	35.9	10.3	16.2
C1-Fluoranthenes/Pyrenes	40.3	20.0		<10xMDL	25.4	to	114.0	61.8	22.7
C2-Fluoranthenes/Pyrenes	43.5	20.0		<10xMDL	36.1	to	112.4	69.4	13.9
C3-Fluoranthenes/Pyrenes	50.9	20.0		<10xMDL	37.5	to	117.0	72.2	14.4
Benzo(a)anthracene	3.3	20.0	J	<MDL	0.7	to	14.4	5.9	4.8
Chrysene	6.2	20.0	J	<MDL	5.6	to	19.8	11.7	3.0
C1-Chrysenes	35.7	20.0		<10xMDL	14.0	to	48.3	28.7	7.1
C2-Chrysenes	63.6	20.0		<10xMDL	20.4	to	71.6	42.2	10.8
C3-Chrysenes	42.2	20.0		<10xMDL	1.9	to	13.3	6.4	3.5
C4-Chrysenes	9.7	20.0	J	<MDL	-0.1	to	5.0	1.8	1.9
Benzo(b)fluoranthene	2.7	20.0	J	<MDL	0.7	to	5.7	2.7	1.6
Benzo(k)fluoranthene	1.0	20.0	J	<MDL	-0.1	to	5.1	1.8	2.0
Benzo(e)pyrene	3.9	20.0	J	<MDL	0.3	to	8.3	3.3	2.8
Benzo(a)pyrene	1.3	20.0	J	<MDL	0.3	to	7.2	2.9	2.4
Perylene		20.0	ND	<MDL	6.6	to	20.2	12.6	2.4
Indeno(1,2,3-c,d)pyrene		20.0	ND	<MDL	0.0	to	2.8	1.1	1.0
Dibenzo(a,h)anthracene	1.5	20.0	J	<MDL	0.2	to	1.7	0.7	0.5
Benzo(g,h,i)perylene	12.6	20.0	J	<MDL	-1.8	to	15.6	4.3	7.2
2-Methylnaphthalene	1416.5	20.0		OK	478.5	to	1587.4	956.0	219.9
1-Methylnaphthalene	1026.9	20.0		OK	344.4	to	1129.4	683.2	153.4
2,6-Dimethylnaphthalene	451.1	20.0		OK	398.2	to	1101.7	714.3	101.8
1,6,7-Trimethylnaphthalene	397.7	20.0		OK	278.0	to	749.8	491.6	63.8
1-Methylphenanthrene	90.1	20.0		<10xMDL	43.3	to	169.2	96.0	29.4
Average % Recovery									

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

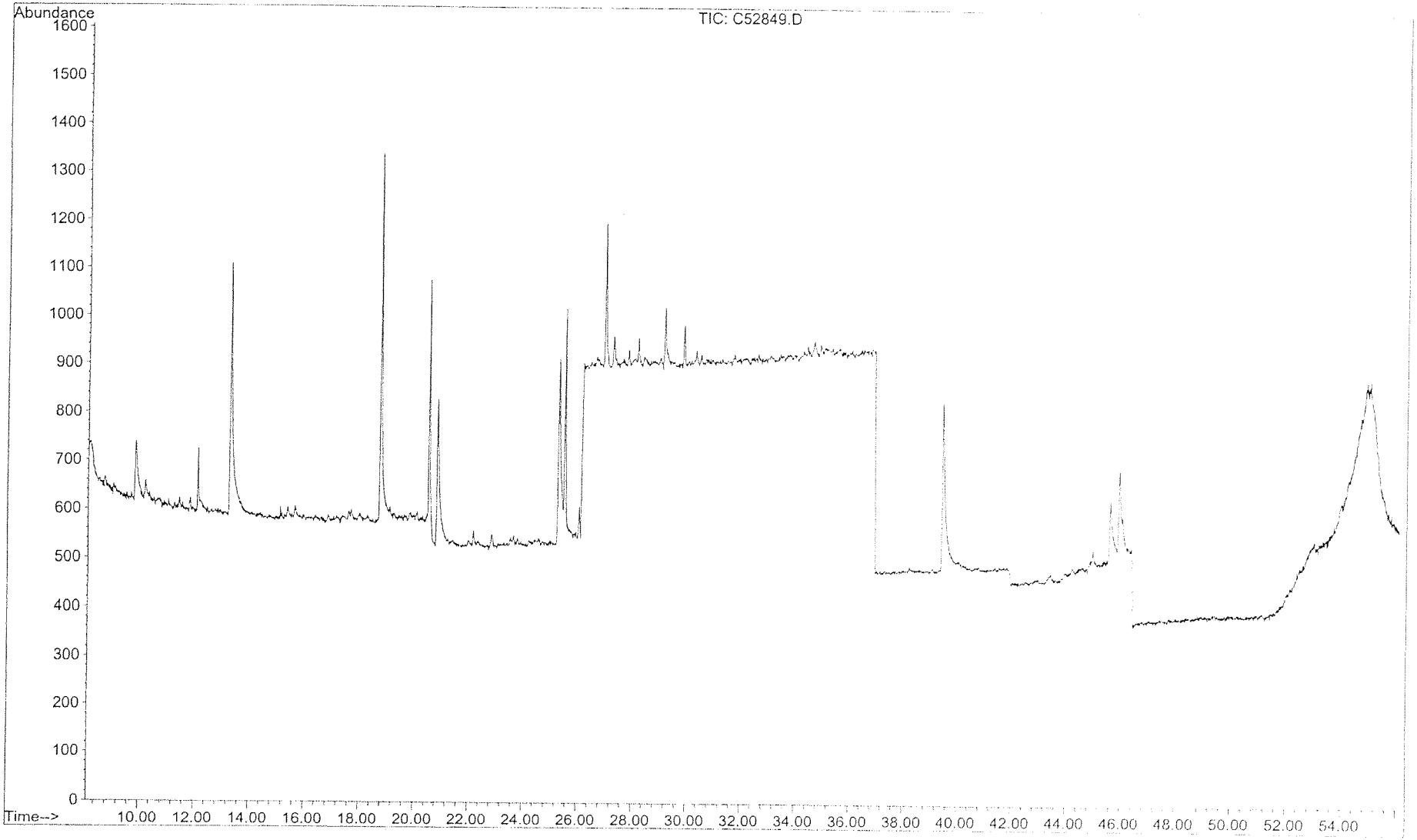
Quantitation Report

Data File : G:\1\DATA\T1551AR\C52849.D
Acq On : 10 Aug 2006 1:59 am
Sample : 001
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:15 19106

Vial: 26
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.06

Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



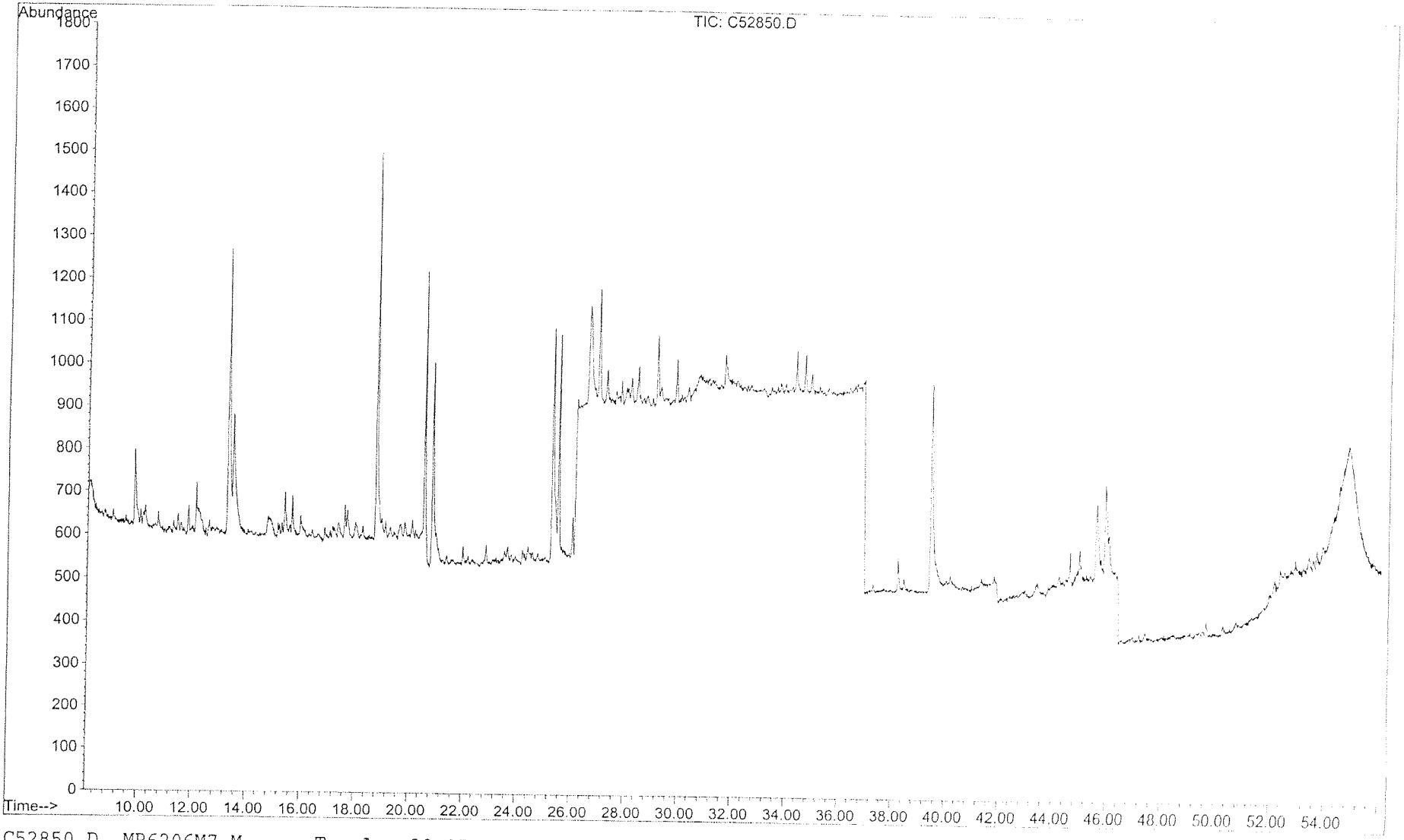
Quantitation Report

Data File : G:\1\DATA\T1551AR\C52850.D
Acq On : 10 Aug 2006 3:06 am
Sample : 002
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:20 19106

Vial: 27
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.03

Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration

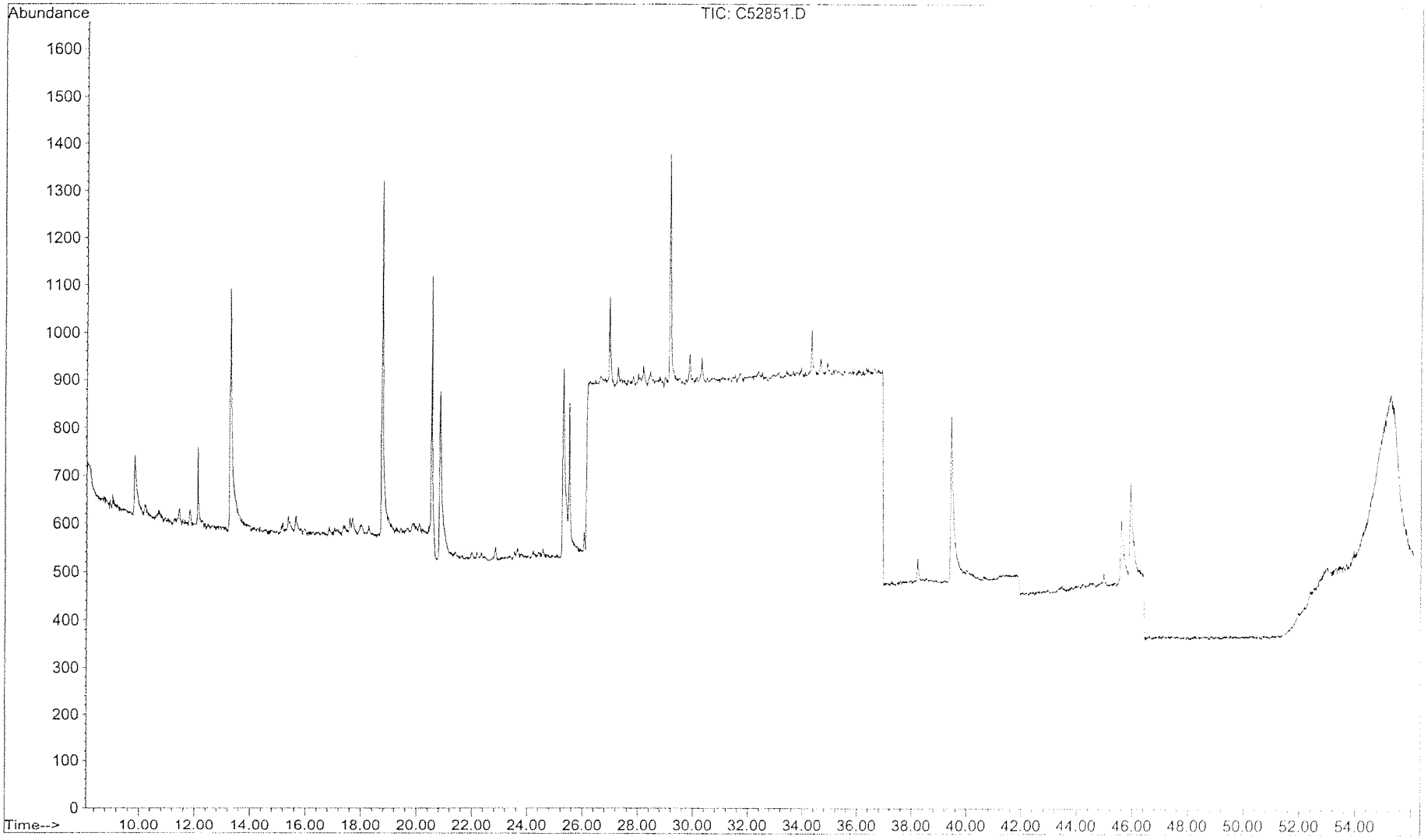


C52850.D MR6206M7.M Tue Aug 29 07:55:40 2006 M6

Quantitation Report

Data File : G:\1\DATA\T1551AR\C52851.D Vial: 28
Acq On : 10 Aug 2006 4:12 am Operator: STS
Sample : 003 Inst : GC/MS Ins
Misc : M3412 Multiplr: 1.02
MS Integration Params: rteint.p
Quant Time: Aug 17 17:25 19106 Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



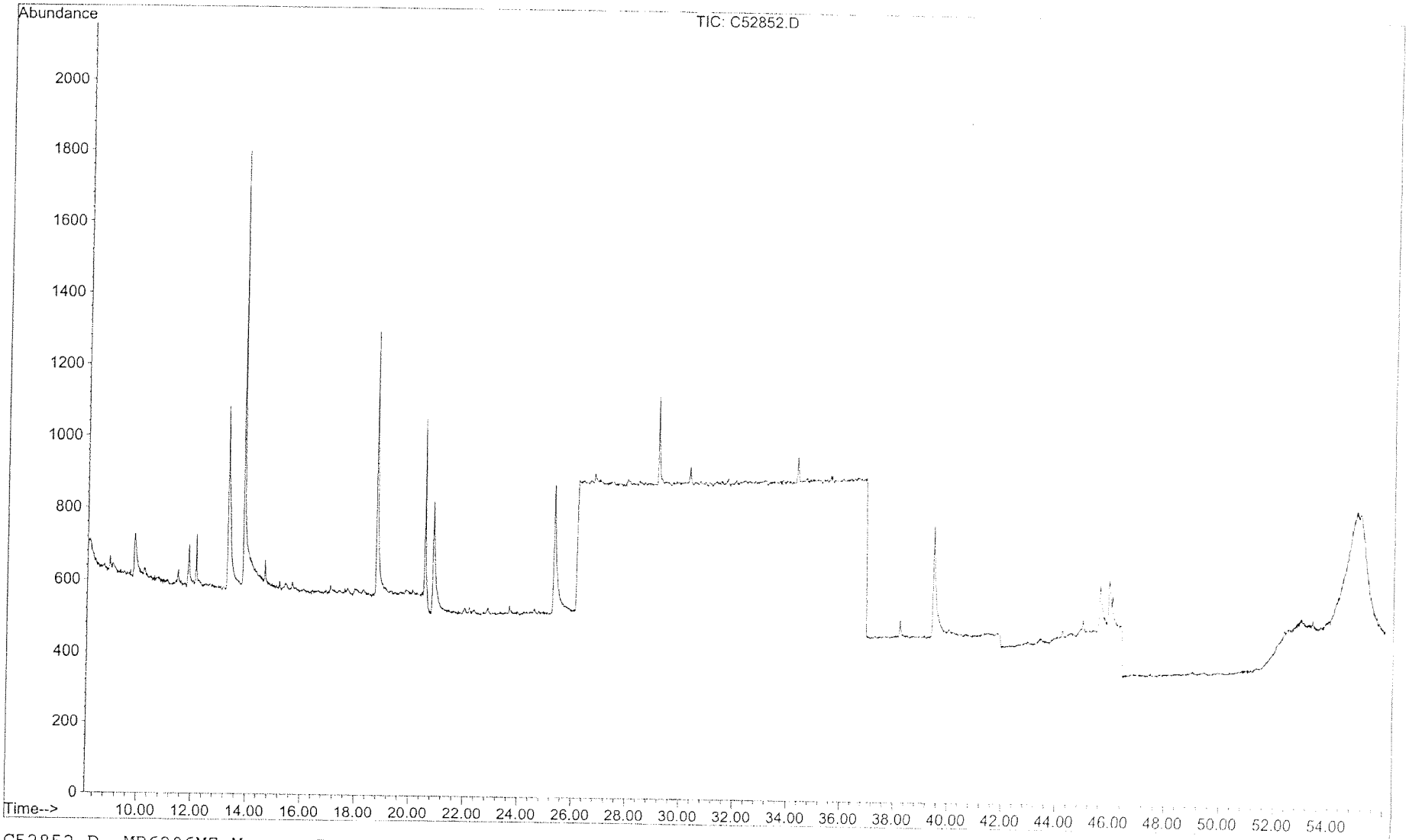
Quantitation Report

Data File : G:\1\DATA\T1551AR\C52852.D
Acq On : 10 Aug 2006 5:19 am
Sample : 004
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:29 19106

Vial: 29
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.06

Quant Results File: MR6206M7.RES

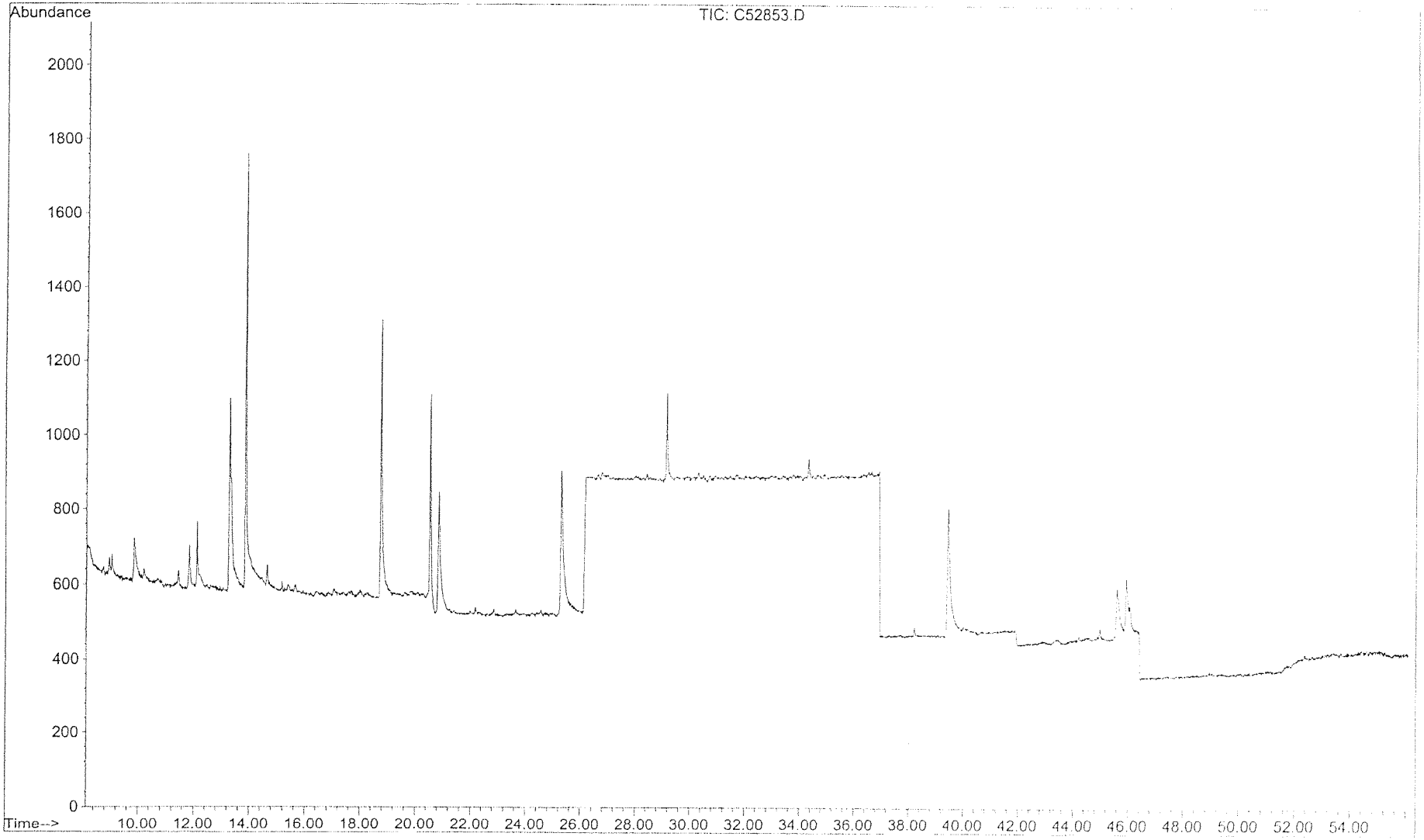
Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



Quantitation Report

Data File : G:\1\DATA\T1551AR\C52853.D Vial: 30
Acq On : 10 Aug 2006 7:32 am Operator: STS
Sample : 005 Inst : GC/MS Ins
Misc : M3412 Multiplr: 1.02
MS Integration Params: rteint.p
Quant Time: Aug 17 17:33 19106 Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



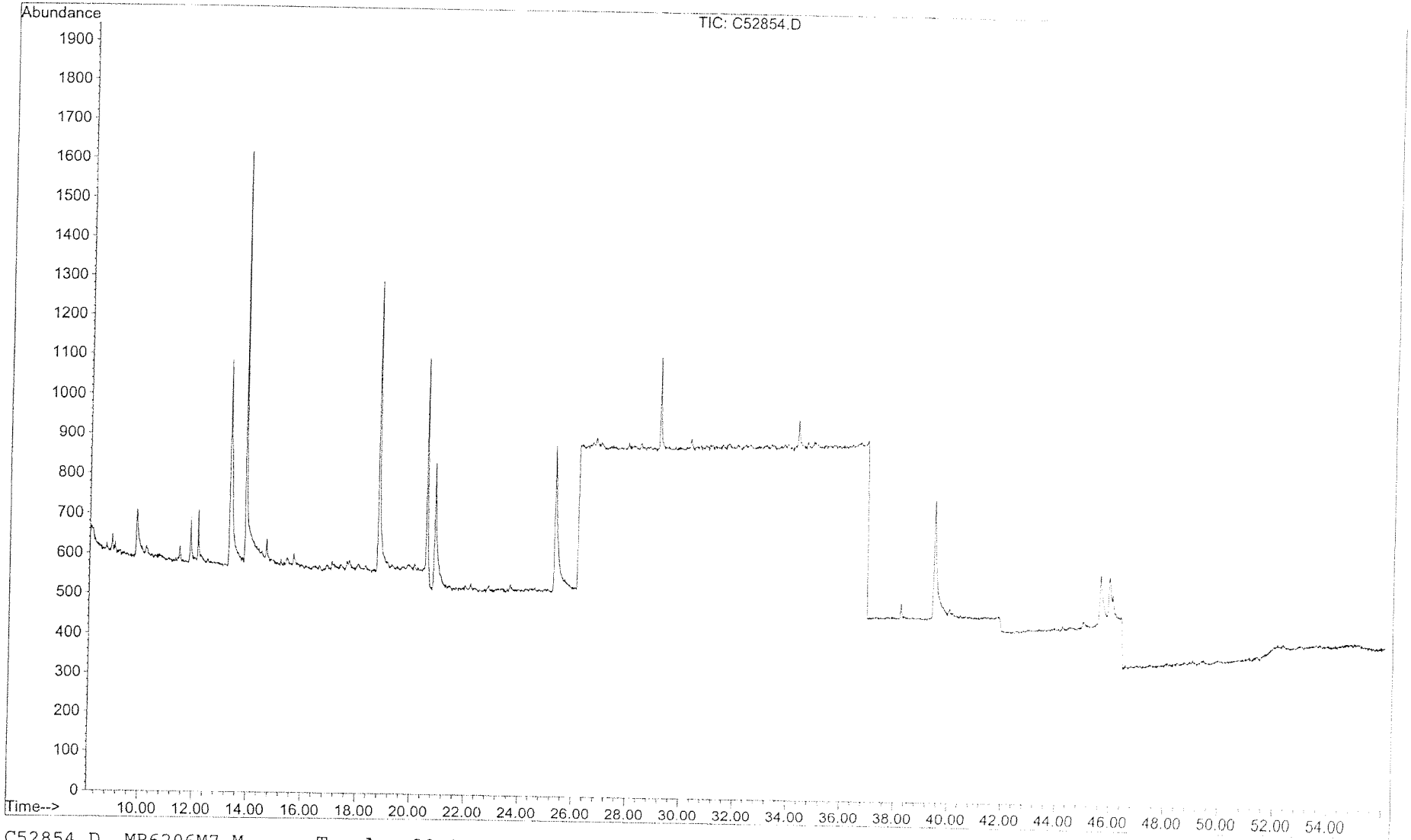
Quantitation Report

Data File : G:\1\DATA\T1551AR\C52854.D
Acq On : 10 Aug 2006 8:39 am
Sample : 006
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:38 19106

Vial: 31
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.04

Quant Results File: MR6206M7.RES

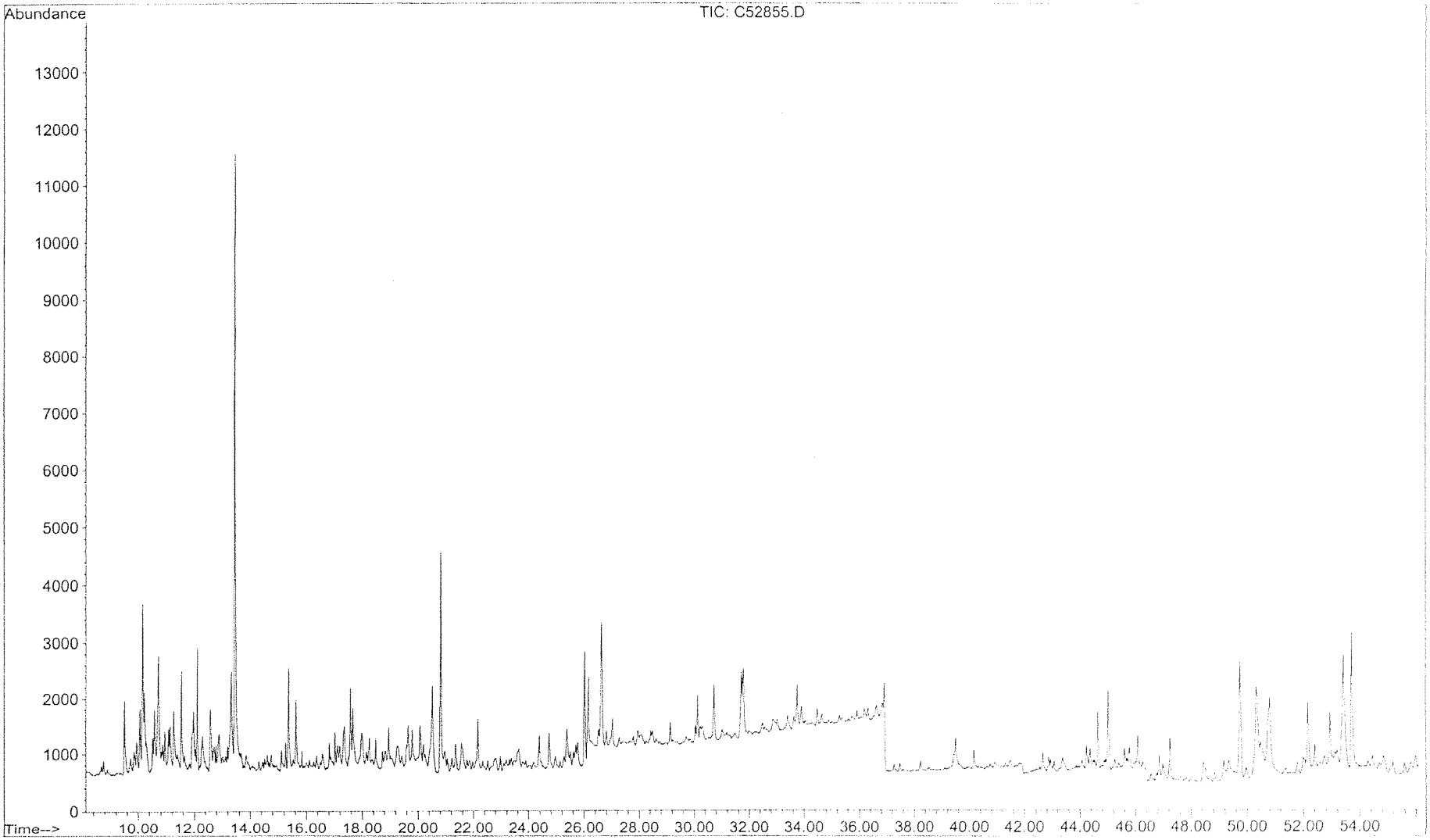
Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



Quantitation Report

Data File : G:\1\DATA\T1551AR\C52855.D Vial: 32
Acq On : 10 Aug 2006 9:46 am Operator: STS
Sample : 007 Inst : GC/MS Ins
Misc : M3412 Multiplr: 1.14
MS Integration Params: rteint.p
Quant Time: Aug 29 7:54 19106 Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



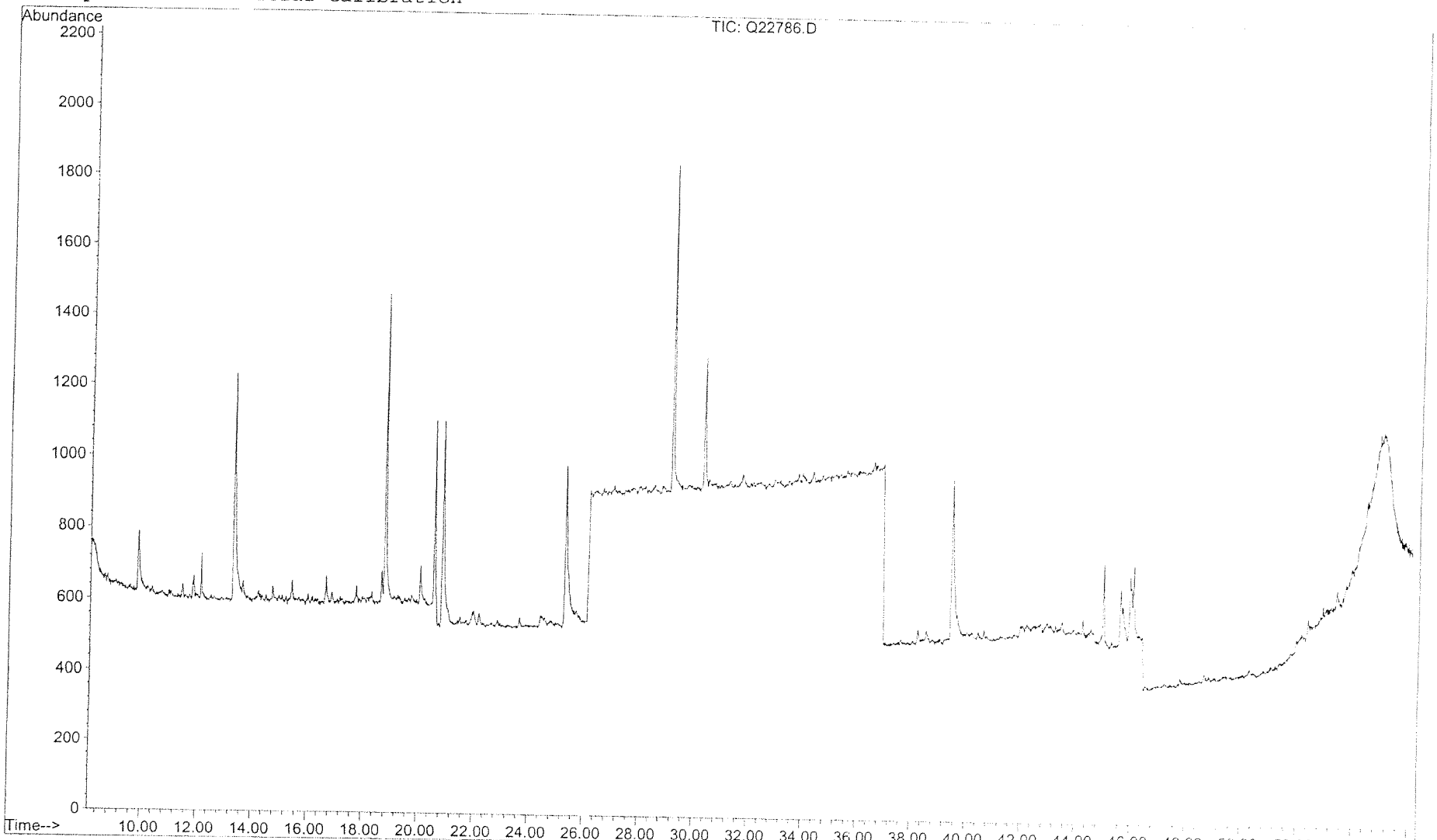
Quantitation Report

Data File : G:\1\DATA\T1551AR\Q22786.D
Acq On : 9 Aug 2006 8:26 pm
Sample : BLANK
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:51 19106

Vial: 21
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



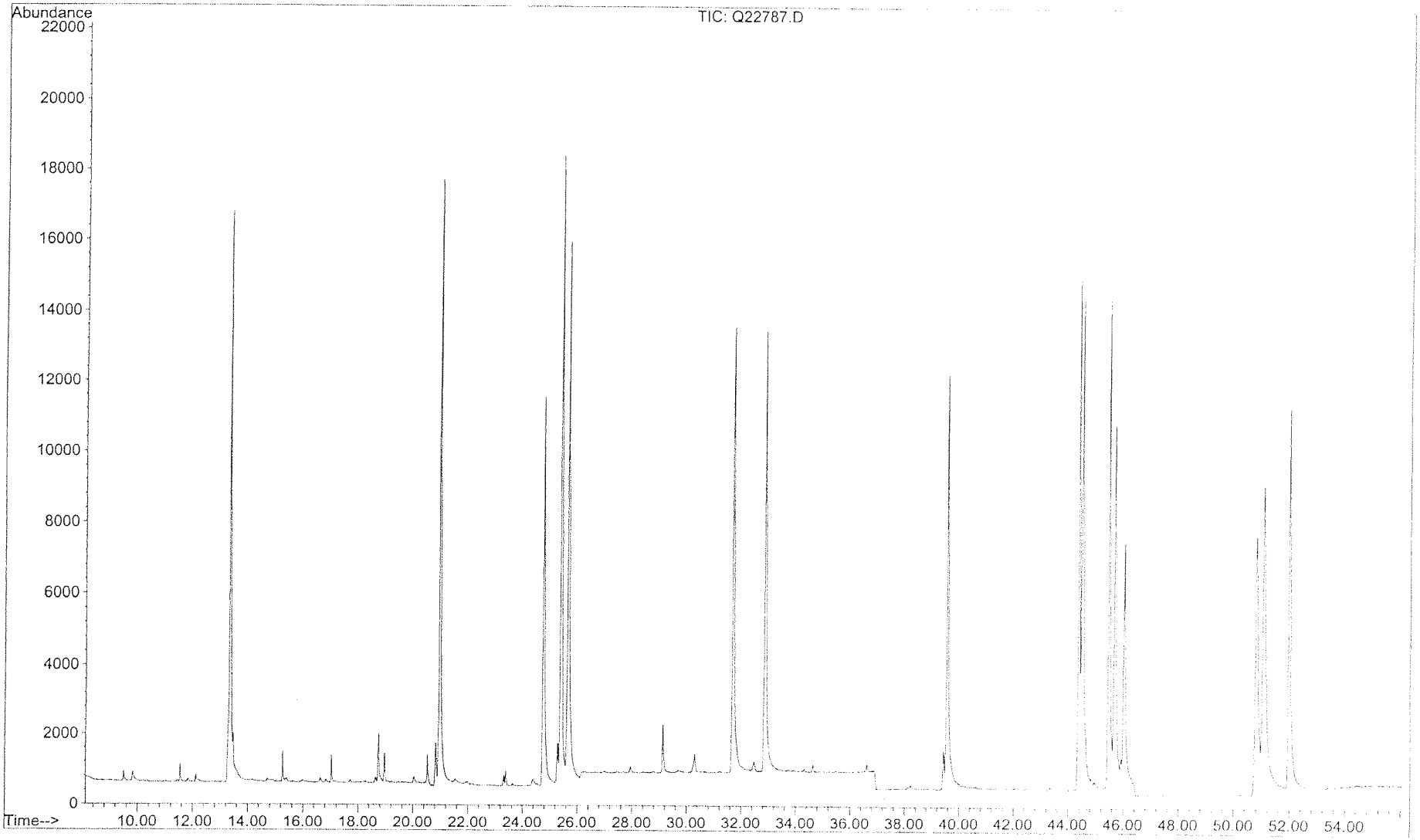
Quantitation Report

Data File : G:\1\DATA\T1551AR\Q22787.D
Acq On : 9 Aug 2006 9:32 pm
Sample : LBS
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 17:57 19106

Vial: 22
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



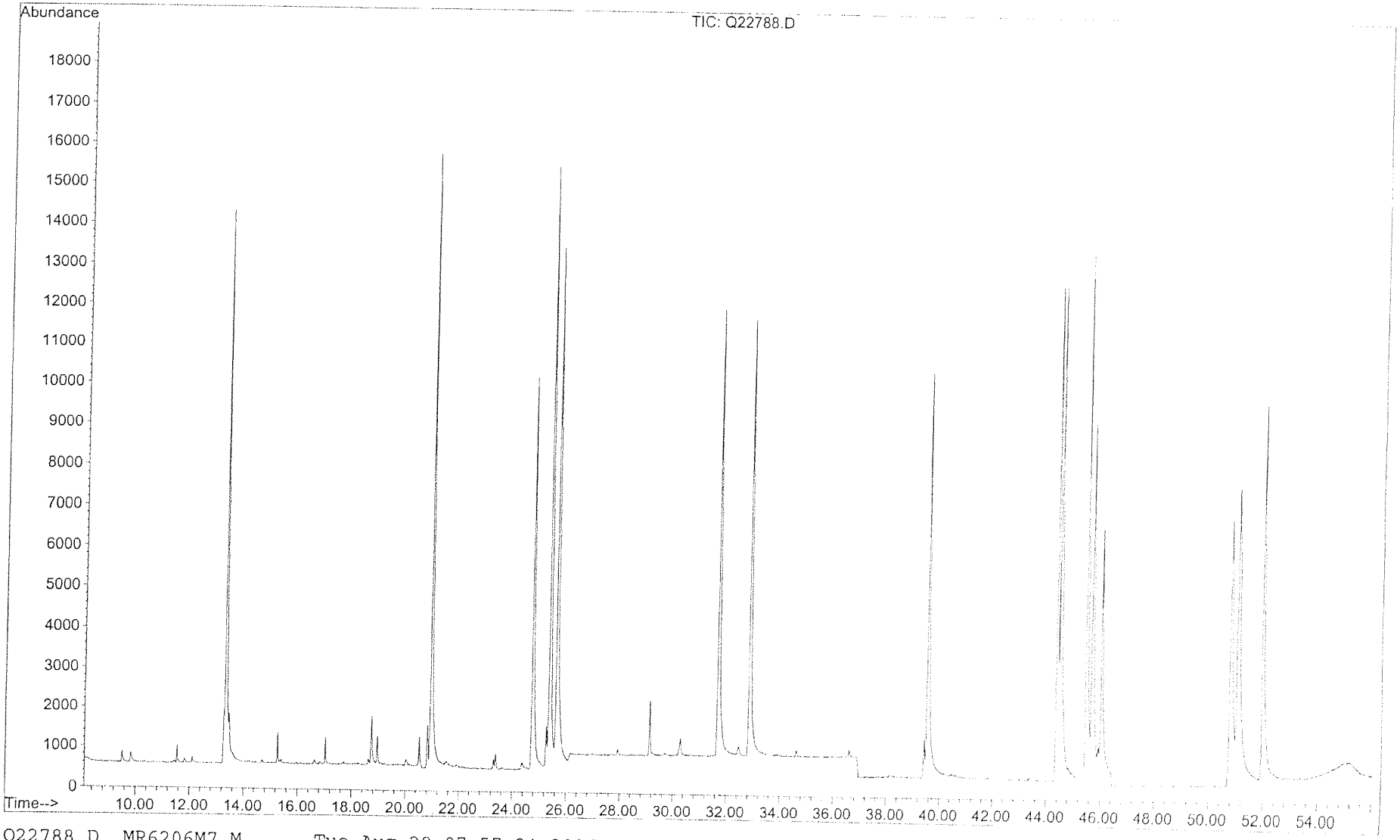
Quantitation Report

Data File : G:\1\DATA\T1551AR\Q22788.D
Acq On : 9 Aug 2006 10:39 pm
Sample : LBSD
Misc : M3412
MS Integration Params: rteint.p
Quant Time: Aug 17 18:15 19106

Vial: 23
Operator: STS
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: MR6206M7.RES

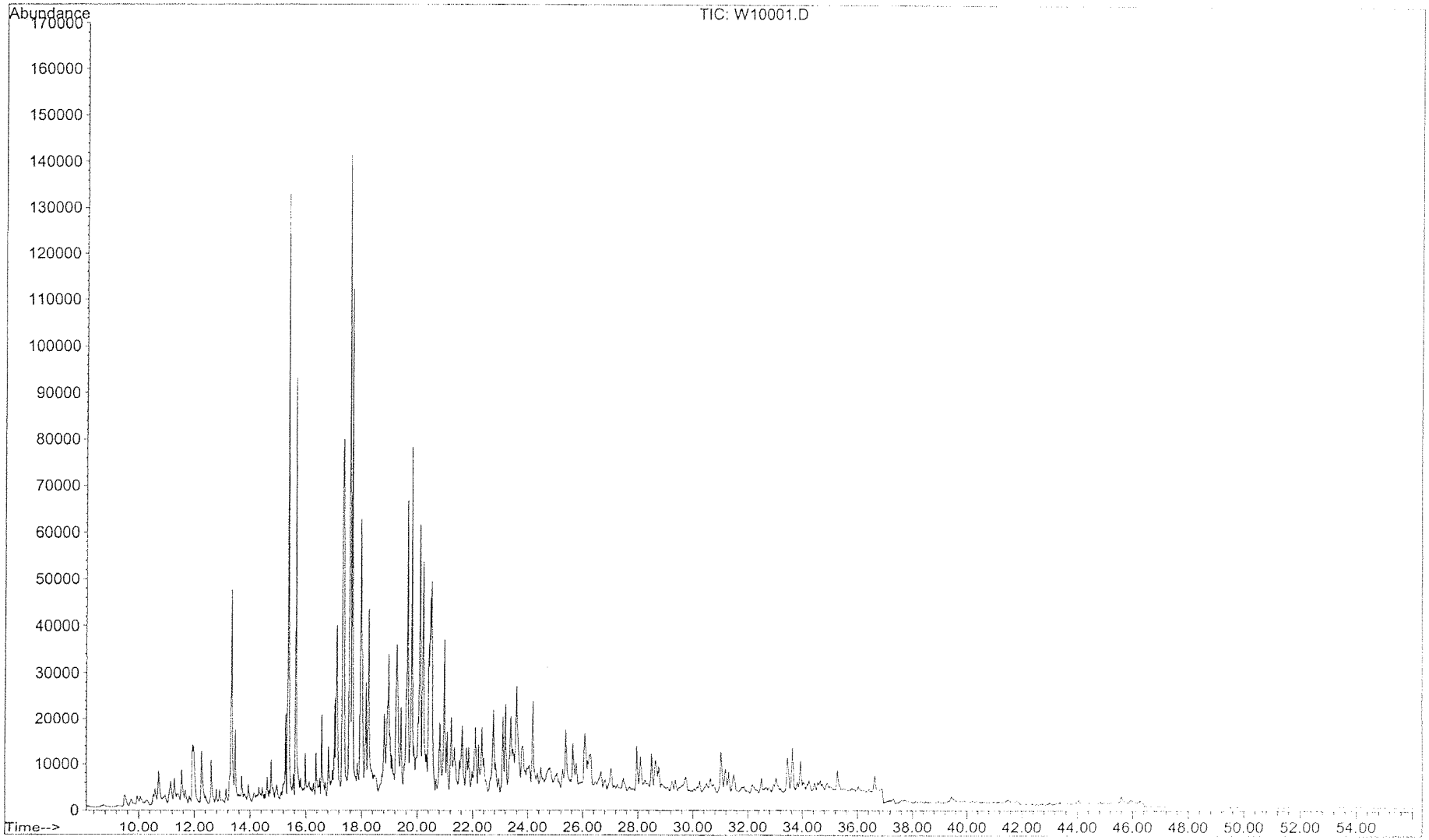
Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



Quantitation Report

Data File : G:\1\DATA\T1551AR\W10001.D Vial: 2
Acq On : 8 Aug 2006 9:09 pm Operator: STS
Sample : GERG Oil Inst : GC/MS Ins
Misc : T1551 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 15:55 19106 Quant Results File: MR6206M7.RES

Method : G:\1\METHODS\MR6206M7.M (RTE Integrator)
Title : PAH Calibration File
Last Update : Tue Aug 08 16:31:26 2006
Response via : Initial Calibration



This is the last page of this report

APPENDIX D

Receiving Water Quality Monitoring

D4 Trace Metals

Battelle

RECEIVING WATER, TRACE METALS, BATTELLE SAMPLE LIST

SAMPLE IDENTIFICATION NUMBER	SAMPLE LOCATION	SAMPLE TYPE
MOA06MTL001	F1-1S	SAMPLE
MOA06MTL002	F1-2S	SAMPLE
MOA06MTL003	F1-3S	SAMPLE
MOA06MTL004	C1-1S	SAMPLE
MOA06MTL005	C1-2S	SAMPLE
MOA06MTL006	C1-3S	SAMPLE
MOA06MTL007	EFFLUENT	SAMPLE

August 1, 2006

Battelle
The Business of Innovation

Mr. Tim Mayers
Kinnetic Laboratories, Inc.
Oceanographic and Environmental Consulting
Alaska Regional Office
1102 West 7th Avenue
Anchorage, AK 99501

Marine Sciences Laboratory
1529 West Sequim Bay Road
Sequim, Washington 98382

Telephone: (360) 681-3627
Facsimile: (360) 681-3699

Dear Tim:

Enclosed are final results for trace metals in seawater and effluent samples received from Kinnetic Laboratories on June 29 and 30, 2006. Chromium, Ni, Cu, Zn, Ag, Cd, and Pb in seawater samples were pre-concentrated prior to analysis by inductively coupled plasma mass spectroscopy (ICP/MS). Cr, Ni, Cu, Zn, Cd, Pb, and Hg were determined in seawater and effluent samples by total recoverable and dissolved methods as appropriate for ICP/MS, and cold vapor atomic absorption. Arsenic was analyzed by flame ionization atomic spectroscopy. Silver was determined by graphite furnace atomic absorption.

Chromium and Cu were detected in the pre-concentration (Fe/Pd) blank at concentrations less than 5x the MDL. Chromium was detected in the dissolved and total blanks at concentrations greater than 5x the MDL. The dissolved effluent sample result was less than 10x the blank concentration and may have been impacted by the background found in the blank and has been "b" flagged. The total effluent sample result was greater than 10x the blank concentration and has not been "b" flagged. Lead was detected in the dissolved blank and Zn was detected in the total blank; both at levels less than 5x the MDL. Other metals were undetected in the blanks. Sample results were not blank corrected. The SRM results were within Battelle's default criteria of ±25%, except Cr, Ni, Zn and Pb in Cass-4. If the SRM results for these metals are blank-corrected, the RPD falls within acceptable criteria for Cr and Pb, but are still outside the criteria for Ni and Zn. Other QC for these metals was acceptable, therefore, other than flagging, no further corrective action was taken. All results for SRM 1640 were within the acceptable criteria. Matrix spikes and duplicate results for all metals 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 Table 1 and Table 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.bingler@pnl.gov at anytime. These samples will be disposed of on July 22nd, unless otherwise advised by you.

Sincerely,

Linda S. Bingler
Senior Research Scientist

Enc.

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: 06/29-30/06
(concentrations in μg/L - not blank corrected)

8/1/06

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag GFAA	Cd ICP/MS	Pb ICP/MS	Hg CVAA
SAMPLE RESULTS													
1672*51		MOA06MTL001	Fe/Pd	Total	10.8	11.6	14.8	26.5	6.73	0.0508	0.105	3.02	0.0211
1672*52		MOA06MTL002	Fe/Pd	Total	14.9	16.2	21.1	37.4	9.6	0.0806	0.124	4.54	0.0320
1672*53		MOA06MTL003	Fe/Pd	Total	18.0	19.3	26.1	45.4	11.4	0.0947	0.131	5.96	0.0408
1672*54		MOA06MTL007	Total	Total	3.50	4.29	42.7	80.0	1.66	2.95	0.351	3.24	0.0813
1672*55		MOA06MTL001	Fe/Pd	Dissolved	0.425	1.07	1.11	0.623	1.55	0.0101	0.0633	0.00541	0.000707
1672*56		MOA06MTL002	Fe/Pd	Dissolved	0.195	1.03	1.48	0.658	1.59	0.0104	0.0655	0.00676	0.000756
1672*57		MOA06MTL003	Fe/Pd	Dissolved	0.225	0.943	0.968	0.808	1.4	0.00720	0.0547	0.00591	0.000415
1672*58		MOA06MTL007	Diss	Dissolved	2.49	3.81	21.0	35.1	1.47	0.181	0.157	0.405	0.00474
1672*59		MOA06MTL004	Fe/Pd	Total	5.25	6.09	7.45	12.9	3.8	0.0322	0.0857	1.47	0.0113
1672*60		MOA06MTL005	Fe/Pd	Total	5.00	5.74	6.95	12.0	3.57	0.0291	0.0813	1.32	0.00920
1672*61		MOA06MTL006	Fe/Pd	Total	11.3	12.1	15.4	28.6	7.06	0.0560	0.105	3.42	0.0228
1672*62		MOA06MTL004	Fe/Pd	Dissolved	0.227	1.05	1.08	0.499	1.40	0.0110	0.0609	0.00605	0.000598
1672*63		MOA06MTL005	Fe/Pd	Dissolved	0.225	1.05	1.07	0.775	1.40	0.00900	0.0629	0.00426	0.000749
1672*64		MOA06MTL006	Fe/Pd	Dissolved	0.211	1.02	1.07	0.606	1.44	0.0119	0.06	0.00627	0.000631
PROCEDURAL BLANK													
			Fe/Pd		0.0445	0.054 U	0.0861	0.162 U	NA	0.004 U	0.005 U	0.003 U	NA
			Dissolved		0.298	0.011 U	0.005 U	0.015 U	0.029 U	0.002 U	0.003 U	0.00687	0.00012 U
			Total		0.961	0.005 U	0.015 U	0.0330	0.029 U	0.006 U	0.004 U	0.005 U	0.00012 U
METHOD DETECTION LIMIT													
			Fe/Pd		**0.033**	**0.054**	**0.042**	**0.162**	**NA**	**0.004**	**0.005**	**0.003**	**NA**
			Dissolved		**0.058**	**0.011**	**0.005**	**0.015**	**0.029**	**0.002**	**0.003**	**0.004**	**0.00012**
			Total		**0.0392**	**0.005**	**0.015**	**0.011**	**0.029**	**0.006**	**0.004**	**0.005**	**NA**
STANDARD REFERENCE MATERIAL													
			Fe/Pd		NA	NA	NA	NA	NA	7.45	NA	NA	NA
1640			Dissolved		36.1	26.4	84.0	56.1	26.0	7.30	23.0	27.7	NA
1640			Total		36.5	27.6	79.3	48.2	NA	7.51	21.7	29.3	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
		% difference	**Fe/Pd**		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**2%**	**N/A**	**N/A**	**N/A**
		% difference	**Dissolved**		**6%**	**4%**	**1%**	**5%**	**3%**	**4%**	**1%**	**1%**	**N/A**
		% difference	**Total**		**5%**	**1%**	**7%**	**9%**	**N/A**	**1%**	**5%**	**5%**	**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: 06/29-30/06
(concentrations in μg/L - not blank corrected)

8/1/06

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag GFAA	Cd ICP/MS	Pb ICP/MS	Hg CVAA
STANDARD REFERENCE MATERIAL, cont.													
CASS-4		Fe/Pd			0.188	0.488	0.692	0.604	1.02	NA	0.0304	0.0125	NA
CASS-4		certified value			0.144	0.314	0.592	0.381	1.11	NC	0.026	0.0098	N/A
CASS-4		range			±0.029	±0.030	±0.055	±0.057	±0.16	NC	±0.003	±0.0036	N/A
		% difference			**31% #**	**55% #**	**17%**	**59% #**	**8%**	**N/A**	**17%**	**28% #**	**N/A**
Blank corrected													
CASS-4		Fe/Pd			0.144	0.479	0.606	0.561	N/A	NA	0.0303	0.0116	NA
CASS-4		certified value			0.144	0.314	0.592	0.381	1.11	NC	0.026	0.0098	N/A
CASS-4		range			±0.029	±0.030	±0.055	±0.057	±0.16	NC	±0.003	±0.0036	N/A
		% difference			**0%**	**53% #**	**2%**	**47% #**	**N/A**	**N/A**	**16%**	**19%**	**N/A**
1641d		Dissolved			NA	NA	NA	NA	NA	NA	NA	NA	1740
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**	**9%**
MATRIX SPIKE RESULTS													
		Amount Spiked			NS	NS	NS	NS	5.00	NS	NS	NS	NS
		1672*56	Diss		NA	NA	NA	NA	1.59	NA	NA	NA	NA
		1672*56 + Spike	Diss		NA	NA	NA	NA	6.55	NA	NA	NA	NA
		Amount Recovered			NA	NA	NA	NA	4.96	NA	NA	NA	NA
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**99%**	**N/A**	**N/A**	**N/A**	**NA**
		Amount Spiked			NS	NS	NS	NS	NS	NS	NS	NS	0.0101
		1672*60	Total		NA	NA	NA	NA	NA	NA	NA	NA	0.00920
		1672*60 + Spike	Total		NA	NA	NA	NA	NA	NA	NA	NA	0.0201
		Amount Recovered			NA	NA	NA	NA	NA	NA	NA	NA	0.0109
		Percent Recovery			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**108%**
		Amount Spiked			10.0	10.0	10.0	10.0	NS	10.0	10.0	10.0	NS
		1672*62	Diss		0.227	1.05	1.08	0.499	NA	0.0110	0.0609	0.00605	NA
		1672*62 + Spike	Diss		8.95	9.44	9.65	8.05	NA	9.29	8.83	8.95	NA
		Amount Recovered			8.72	8.39	8.57	7.55	NA	9.28	8.77	8.94	NA
		Percent Recovery			**87%**	**84%**	**86%**	**76%**	**N/A**	**93%**	**88%**	**89%**	**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: 06/29-30/06
(concentrations in μg/L - not blank corrected)

8/1/06

MSL Code	Rep	Sponsor I.D.	Analysis Method	Fraction	Cr ICP/MS	Ni ICP/MS	Cu ICP/MS	Zn ICP/MS	As FIAS	Ag GFAA	Cd ICP/MS	Pb ICP/MS	Hg CVAA
REPLICATE RESULTS													
1672*51	1	MOA06MTL001	Total		NA	NA	NA	NA	NA	NA	NA	NA	0.0211
1672*51	2	MOA06MTL001	Total		NA	NA	NA	NA	NA	NA	NA	NA	0.0203
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**4%**
1672*53	1	MOA06MTL003	Total		18.0	19.3	26.1	45.4	NA	0.0947	0.131	5.96	NA
1672*53	2	MOA06MTL003	Total		18.3	19.6	26.5	46.3	NA	0.0923	0.131	5.91	NA
		% difference			**2%**	**2%**	**2%**	**2%**	**N/A**	**3%**	**0%**	**1%**	**N/A**
1672*55	1	MOA06MTL001	Diss		NA	NA	NA	NA	1.55	NA	NA	NA	NA
1672*55	2	MOA06MTL001	Diss		NA	NA	NA	NA	1.48	NA	NA	NA	NA
		% difference			**N/A**	**N/A**	**N/A**	**N/A**	**5%**	**N/A**	**N/A**	**N/A**	**N/A**

U = not detected at or above detection limit.
NC = not certified.
NA = not analyzed.
N/A = not applicable.
= outside Quality Control Criteria.

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 50-57 Project Manager: Bowler

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater & effluent WP# W34435

Yes	No	
	X	Navy-type Project (requires high-level sample tracking procedures)
X		Filter Samples: *Amount:* Entire sample / Half of sample
	X	Freeze dry sample(s) - samples will be weighed and placed in ultralow ~~temp~~ freezer (Lab# 130)
	X	Special instructions:

Sample Preservation Instructions:

Date To Archive: Date To Dispose:

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box	
	X		Was a custody seal present?	
		X	Was the custody seal intact?	
X			Was cooler(s) temperature(s) within acceptable range of 4±2°C or frozen? (if multiple coolers, note temp. of each)	4.5 °C / °C
		X	Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy:	
X			Were **all** chain of custody forms signed and dated?	
X			Were samples filtered at MSL?	

Sample condition(s): Acceptable / Other (explain):

Container type: Teflon / Poly / Glass / Spex / Other:

Notes:

Completed By: Date/Time: 06/29/06 1100

SAMPLE PRESERVATION

- [X] 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:
- [X] 0.2% HNO3 Notes: lot # 1205040
- [ ] 0.5% HCl (Hg samples) Notes:
- [ ] Refrigerate/Freeze Notes:
- [ ] Other Notes:

Completed By: Date/Time: 06/29/06 1350

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 1672 Sample No(s): 59-64 Project Manager: Bruler

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: Seawater & Effluent WP# WJ 34435

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~~ (Lab# 130)
	X	Special instructions:

Sample Preservation Instructions:

Date To Archive: Date To Dispose: Jul 2006

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? (if multiple coolers, note temp. of each)	2.0 °C °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 Spex Other:

Notes:

Completed By: Date/Time: 06/30/06 1210

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 # 1205040
	0.5% HCl (Hg samples)	Notes:
	Refrigerate/Freeze	Notes:
	Other	Notes:

Completed By: Date/Time: 06/30/06 1230

Revsed 033006

K-2-D

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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1011	**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
MOA06MTL001	F1-1S	1	6/27/06	1603	1672: 50 51	1672.54
MOA06MTL002	F1-2S	1	↓	1635	1 ~~51~~ 52	1 55
MOA06MTL003	F1-3S	1	↓	1650	1672.52 53	1672.56

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
	6/28/06 1400	FEDEX		07/29/06 1100
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\moa06\Field_06_Tim\COCs\tmRW06COC.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: Janet Savoie (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1011	**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
MOA06MTL007	EFFLUENT	1	6/27/06	0800-0800	1672-53-54	1672
Please filter and preserve immediately 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
	6/28/06			6/29/06 0850
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME
	6/28/06 1400	FEDEX		6/29/06 1100
RELINQUISHED BY:	DATE AND TIME	TRANSPORTED BY:	RECEIVED BY:	DATE AND TIME

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_EFF05COC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

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: Tim Mayers (907)276-6178	
REQUIRED COMPLETION DATE: 30 days	**P.O. #:** AK06-1011	**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
MOA06MTL004	C1-1S	1	6/28/06	1635	2672.57	1672 62
MOA06MTL005	C1-2S	1	↓	1650	60	63
MOA06MTL006	C1-3S	1	↓	1710	2672 61	1672.64

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]	6/29/06 1200	Fed-X	[signature]	06/30/06 1212
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\moa06\Field_06_Tim\COCs\tmRW06COC.wpd

APPENDIX D

Receiving Water Quality Monitoring

D5 Intertidal Bacteria

Spectra Laboratories

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/06/2006

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

P.O.#: AK06-1005
Project: 516.02
Sample Matrix: Water
Date Sampled: 06/28/2006
Date Received: 06/29/2006
Spectra Project: 2006060479

Client ID	Spectra #	Analyte	Result	Units	Method
C1-1S (MOA06FEC025)	1	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C1-2S (MOA06FEC026)	2	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
C1-3S (MOA06FEC027)	3	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C1-4S (MOA06FEC028)	4	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C2-1S (MOA06FEC029)	5	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
C2-2S-A (MOA06FEC030)	6	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C2-2S-B (MOA06FEC031)	7	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C2-2S-C (MOA06FEC032)	8	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C2-3S (MOA06FEC033)	9	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
C2-4S (MOA06FEC034)	10	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C3-1S-A (MOA06FEC035)	11	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
C3-1S-B (MOA06FEC036)	12	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C3-1S-C (MOA06FEC037)	13	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C3-2S (MOA06FEC038)	14	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C3-3S (MOA06FEC039)	15	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
C3-4S (MOA06FEC040)	16	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/llp

20060604 79

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE:	**P.O. #:** AK06-1005	**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	MOA06FEC025	6/28/06 1635		
C1-2S	MOA06FEC026	1650		
C1-3S	MOA06FEC027	1710		
C1-4S	MOA06FEC028	1738		
C2-1S	MOA06FEC029	1635		
C2-2S(A)	MOA06FEC030	1843		
C2-2S(B)	MOA06FEC031	1843		
C2-2S(C)	MOA06FEC032	1843		
C2-3S	MOA06FEC033	1852		
C2-4S	MOA06FEC034	1914		
C3-1S(A)	MOA06FEC035	2005		~~Fecal laboratory triplicate in larger container; analyze 3 times~~
C3-1S(B)	MOA06FEC036	2005		
C3-1S(C)	MOA06FEC037	2005		
C3-2S	MOA06FEC038	2014		
C3-3S	MOA06FEC039	2025		
C3-4S	MOA06FEC040	2040		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 2350	Gold Streak	AK airlines	
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
AK airlines			Kerri Nason	6/29/06 @ 0815
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/06/2006

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

P.O.#: AK06-1005
Project: 516.02
Sample Matrix: Wastewater
Date Sampled: 06/27/2006
Date Received: 06/28/2006
Spectra Project: 2006060457

Client ID	Spectra #	Analyte	Result	Units	Method
E1-1S (MAO06FEC001)	1	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
E1-2S (MAO06FEC002)	2	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E1-3S (MAO06FEC003)	3	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E1-4S (MAO06FEC004)	4	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E2-1S (MAO06FEC005)	5	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E2-2S (MAO06FEC006)	6	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E2-3S (MAO06FEC007)	7	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
E2-4S (MAO06FEC008)	8	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E3-1S (MAO06FEC009)	9	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
E3-2S (MAO06FEC010)	10	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E3-3S (MAO06FEC011)	11	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
E3-4S (MAO06FEC012)	12	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F1-1S (MAO06FEC013)	13	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F1-2S (MAO06FEC014)	14	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F1-3S (MAO06FEC015)	15	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F1-4S (MAO06FEC016)	16	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F2-1S (MAO06FEC017)	17	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F2-2S (MAO06FEC018)	18	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F2-3S (MAO06FEC019)	19	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F2-4S (MAO06FEC020)	20	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
F3-1S (MAO06FEC021)	21	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
F3-2S (MAO06FEC022)	22	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
F3-3S (MAO06FEC023)	23	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/llp

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/06/2006

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

P.O.#: AK06-1005
Project: 516.02
Sample Matrix: Wastewater
Date Sampled: 06/27/2006
Date Received: 06/28/2006
Spectra Project: 2006060457

Client ID	Spectra #	Analyte	Result	Units	Method
F3-4S (MAO06FEC024)	24	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-1 REP1 (MAO06FEC041)	25	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-1 REP2 (MAO06FEC042)	26	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
IT-2 REP1 (MAO06FEC043)	27	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-2 REP2 (MAO06FEC044)	28	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-3 REP1 (MAO06FEC045)	29	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
IT-3 REP2 (MAO06FEC046)	30	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-4 REP1 (MAO06FEC047)	31	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-4 REP2 (MAO06FEC048)	32	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
IT-5 REP1 (MAO06FEC049)	33	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
IT-5 REP2 (MAO06FEC050)	34	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-6 REP1 (MAO06FEC051)	35	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-6 REP2 (MAO06FEC052)	36	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
IT-7 REP1 (MAO06FEC053)	37	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-7 REP2 (MAO06FEC054)	38	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
IT-C REP1 (MAO06FEC055)	39	Fecal Coliform by MPN in	2	MPN/100ml	SM 9221E
IT-C REP2 (MAO06FEC056)	40	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
CC REP1 (MAO06FEC059)	41	Fecal Coliform by MPN in	7	MPN/100ml	SM 9221E
CC REP 2 (MAO06FEC060)	42	Fecal Coliform by MPN in	13	MPN/100ml	SM 9221E
SC REP1 (MAO06FEC061)	43	Fecal Coliform by MPN in	4	MPN/100ml	SM 9221E
SC REP2 (MAO06FEC062)	44	Fecal Coliform by MPN in	<2	MPN/100ml	SM 9221E
FC REP1 (MAO06FEC063)	45	Fecal Coliform by MPN in	110	MPN/100ml	SM 9221E
FC REP2 (MAO06FEC064)	46	Fecal Coliform by MPN in	240	MPN/100ml	SM 9221E

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a7/llp

2006060457

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**	
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907) 276-6178	
REQUIRED COMPLETION DATE:	**P.O. #:** AK06-1005	**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	MOA06FEC001	6/27/06 0932		
E1-2S	MOA06FEC002	0944		
E1-3S	MOA06FEC003	1010		
E1-4S	MOA06FEC004	1036		
E2-1S	MOA06FEC005	1114		
E2-2S	MOA06FEC006	1120		
E2-3S	MOA06FEC007	1128		
E2-4S	MOA06FEC008	1154		
E3-1S	MOA06FEC009	1314		
E3-2S	MOA06FEC010	1324		
E3-3S	MOA06FEC011	1352		
E3-4S	MOA06FEC012	1451		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 1250 hrs	GOLDSTREAK	Gary Nikonow	6-28-06 9:00 am
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

2006060457

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907) 276-6178

REQUIRED COMPLETION DATE:	P.O. #: AK06-1005	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	MOA06FEC013	6/27/06 1603		
F1-2S	MOA06FEC014	1635		
F1-3S	MOA06FEC015	1650		
F1-4S	MOA06FEC016	1716		
F2-1S	MOA06FEC017	1746		
F2-2S	MOA06FEC018	1757		
F2-3S	MOA06FEC019	1805		
F2-4S	MOA06FEC020	1827		
F3-1S	MOA06FEC021	1945		
F3-2S	MOA06FEC022	1952		
F3-3S	MOA06FEC023	2002		
F3-4S	MOA06FEC024	2012		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 1250 AM	Goldstreak	Gary Nitchmann	6-28-06 9:00 am
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_fecal06_SPECTRACOC.wpd

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_fecal06_SPECTRACOC.wpd 2006060457

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: **P.O. #:** AK06-1005 **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
IT-1 Rep1	MOA06FEC041	6/27/06 2045		
IT-1 Rep2	MOA06FEC042	2045		
IT-2 Rep1	MOA06FEC043	2039		
IT-2 Rep2	MOA06FEC044	2039		
IT-3 Rep1	MOA06FEC045	2034		
IT-3 Rep2	MOA06FEC046	2034		
IT-4 Rep1	MOA06FEC047	2030		
IT-4 Rep2	MOA06FEC048	2030		
IT-5 Rep1	MOA06FEC049	2025		
IT-5 Rep2	MOA06FEC050	2025		
IT-6 Rep1	MOA06FEC051	2020		
IT-6 Rep2	MOA06FEC052	2020		
IT-7 Rep1	MOA06FEC053	2012		
IT-7 Rep2	MOA06FEC054	2012		
IT-C Rep1	MOA06FEC055	2118		
IT-C Rep2	MOA06FEC056	2118		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 1250 Am	Gold Streak	Gary Nitchmann	6-28-06 9:00 am
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

2006060457

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: | **P.O. #:** AK06-1005 | **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
Chester Creek Rep1	MOA06FEC059	BAH 6-27-06/13:50		
Chester Creek Rep2	MOA06FEC060	6-27-06/13:50		
Ship Creek Rep1	MOA06FEC061	6-27-06/13:28		
Ship Creek Rep2	MOA06FEC062	6-27-06/13:28		
Fish Creek Rep1	MOA06FEC063	6-27-06/14:04		
Fish Creek Rep2	MOA06FEC064	6-27-06/14:04		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 1250AM	GoCAstreak	Gary Nitchmann	6-28-06 9:00 am
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/06/2006

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
Attn: Tim Mayers

P.O.#: AK06-1005
Project: 516.01
Sample Matrix: Water
Date Sampled: 06/27/2006
Date Received: 06/28/2006
Spectra Project: 2006060458

Client ID	Spectra #	Analyte	Result	Units	Method
MOA06FEC057 (EFF REP1)	1	Fecal Coliform by MPN in	500	MPN/100ml	SM 9221E
MOA06FEC058 (EFF REP2)	2	Fecal Coliform by MPN in	>1600	MPN/100ml	SM 9221E

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/llp

2006060458

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
Spectra Laboratories 2221 Ross Way Tacoma, WA 98421 Attn: Guy Archebald (253) 272-4850	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

REQUIRED COMPLETION DATE: 30 days | **P.O. #:** AK06-1005 | **KLI Proj. #:** 516.0~~2~~1

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
MOA06FEC057	EFFLUENT REP. 1	1	6/27/06	1500		
MOA06FEC058	EFFLUENT REP. 2	1	6/27/06	1500		

RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/27/06 - 1500	HAND	[signature]	6/27/06 15:09
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
[signature]	6/28/06 1:00 AM	Goldstreak	Gary Nitchmann	6-28-06 9:00 am
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_EFF05COC.wpd

APPENDIX D

Receiving Water Quality Monitoring

D6 Total Residual Chlorine

Analytica Alaska, Inc.

Analytica International, Inc.
5761 Silverado Way, Unit N
Anchorage, AK 99518
Phone: 907-258-2155

7/25/2006

Kinnetic Laboratories
1102 W. 7th
Anchorage, AK 99501
Attn: Tim Mayers

Work Order #: A0606352
Date: 7/25/2006
Work ID: 2006 AWWU MOA
Date Received: 6/27/2006

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A0606352-01	MOA06ENT001	A0606352-02	MOA06ENT002
A0606352-03	E 1-1	A0606352-04	E 1-2
A0606352-05	E 1-3	A0606352-06	E 1-4
A0606352-07	E 2-1	A0606352-08	E 2-2
A0606352-09	E 2-3	A0606352-10	E 2-4
A0606352-11	E 3-1	A0606352-12	E 3-2
A0606352-13	E 3-3	A0606352-14	E 3-4
A0606352-15	F 1-1	A0606352-16	F 1-2
A0606352-17	F 1-3	A0606352-18	F 1-4
A0606352-19	F 2-1	A0606352-20	F 2-2
A0606352-21	F 2-3	A0606352-22	F 2-4
A0606352-23	F 3-1	A0606352-24	F 3-2
A0606352-25	F 3-3	A0606352-26	F 3-4
A0606352-27	C 1-1	A0606352-28	C 1-2
A0606352-29	C 1-3	A0606352-30	C 1-4
A0606352-31	C 2-1	A0606352-32	C 2-2
A0606352-33	C 2-3	A0606352-34	C 2-4
A0606352-35	C 3-1	A0606352-36	C 3-2
A0606352-37	C 3-3	A0606352-38	C 3-4

Enclosed are the analytical results, in summary format, for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues.

Sincerely,

Krissy Plett
Project Manager

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: C 1-1

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 1-2

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 1-3

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 1-4

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 2-1

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 2-2

Matrix: Ocean Water — Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: C 2-3

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 2-4

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 3-1

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 3-2

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 3-3

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: C 3-4

Matrix: Ocean Water

Collection Date: 6/28/2006 3:30:00PM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/28/06 15:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: E 1-1

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 1-2

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 1-3

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 1-4

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 2-1

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 2-2

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: E 2-3

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 2-4

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 3-1

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 3-2

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 3-3

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: E 3-4

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: F 1-1

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	**0.023**	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 1-2

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 1-3

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 1-4

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 2-1

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	**0.11**	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 2-2

Matrix: Ocean Water — Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Summary of Detected Analytes

Analytica Alaska Inc.

Workorder (SDG): A0606352
Project: 2006 AWWU MOA
Client: Kinnetic Laboratories
Client Project Number: none

Client Sample Name: F 2-3

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 2-4

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 3-1

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 3-2

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 3-3

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

Client Sample Name: F 3-4

Matrix: Ocean Water

Collection Date: 6/27/2006 8:30:00AM

Analyte	Result	PQL	Units	Analysis Date	Flags	Analyst	Method
Chlorine, Residual	<0.010	0.010	mg/L	6/27/06 8:30		sg	SM4500-ClG , Chlorine by Colormetric DPD - Chlorine, Residual

APPENDIX D

Receiving Water Quality Monitoring

D7 Color

SGS Environmental Services, Inc.

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

Tim Mayers
Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

Work Order:	1063527		
	516.02	**Released by:**	
Client:	Kinnetic Laboratories, Inc.		
Report Date:	July 10, 2006		Barbara Hager 2006.07.10 16:11:21 -08'00'

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 001543 for NELAP.

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.

The following descriptors may be found on your report which will serve to further qualify the data.

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.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.

SGS

SGS Ref.#	1063527001
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C1-1S MOA06CLR025
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 16:35
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527002
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C1-2S MOA06CLR026
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 16:50
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527003
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C1-3S MOA06CLR027
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 17:10
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527004
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C1-4S MOA06CLR028
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 17:38
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527005
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C2-1S MOA06CLR029
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 18:35
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527006
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C2-2S(A) MOA06CLR030
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 18:43
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527007
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C2-3S MOA06CLR033
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 18:52
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527008
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C2-4S MOA06CLR034
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 19:14
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527009
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C3-1S(A) MOA06CLR035
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 20:05
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527010
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C3-2S MOA06CLR038
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 20:14
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527011
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C3-3S MOA06CLR039
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 20:25
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527012	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/10/2006 10:54
Project Name/#	516.02	**Collected Date/Time**	06/28/2006 20:40
Client Sample ID	C3-4S MOA06CLR040	**Received Date/Time**	06/29/2006 12:25
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									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/29/06	CRY

SGS

SGS Ref.#	1063527013
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C2-2S(B) MOA06CLR031
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 18:43
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527014	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	07/10/2006 10:54
Project Name/#	516.02	**Collected Date/Time**	06/28/2006 18:43
Client Sample ID	C2-2S(C) MOA06CLR032	**Received Date/Time**	06/29/2006 12:25
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									
Color	ND	5.00	PCU	SM20 2120B	A	(<15)		06/29/06	CRY

SGS

SGS Ref.#	1063527015
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C3-1S(B) MOA06CLR036
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 20:05
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

SGS

SGS Ref.#	1063527016
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	C3-1S(C) MOA06CLR037
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	07/10/2006 10:54
Collected Date/Time	06/28/2006 20:05
Received Date/Time	06/29/2006 12:25
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)		06/29/06	CRY

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

1063527

REQUIRED COMPLETION DATE:	P.O. #: AK06-1006	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	MOA06CLR025	6/28/06 1635		(1)
C1-2S	MOA06CLR026	1650		(2)
C1-3S	MOA06CLR027	1710		(3)
C1-4S	MOA06CLR028	1738		(4)
C2-1S	MOA06CLR029	1835		(5)
C2-2S(A)	MOA06CLR030	1843		(6) A
C2-2S(B)	MOA06CLR031	1843		(13)
C2-2S(C)	MOA06CLR032	1843		(14)
C2-3S	MOA06CLR033	NK 2005	1852	~~Save bottle~~ (7)
C2-4S	MOA06CLR034	NK 2005	1914	~~Laboratory Triplicate~~ (8)
C3-1S(A)	MOA06CLR035	2005		Save bottle (9) A
C3-1S(B)	MOA06CLR036	2005		Lab Triplicate (15)
C3-1S(C)	MOA06CLR037	2005		(16)
C3-2S	MOA06CLR038	2014		(10)
C3-3S	MOA06CLR039	2025		(11)
C3-4S	MOA06CLR040	2040		(12)

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
	6/28/06 1	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
				6/29/06 1225

TB = 5.7

SGS

SAMPLE RECEIPT FORM

SGS WO#: 1063527

Yes	No	NA		
✓			Are samples **RUSH**, priority, or *w/n 72 hrs.* of **hold time**?	**Due Date:** 7-18-06
called			If yes have you done *e-mail notification*?	**Received Date:** 6-29-06
✓			Are samples *within 24 hrs.* of **hold time** or **due date**?	**Received Time:** 1225
		✓	If yes, have you *spoken with* Supervisor?	Is **date/time conversion** necessary? N
		✓	Archiving bottles – if req., are they properly marked?	# of hours to AK Local Time:
	✓		Are there any **problems**? PM Notified?	**Thermometer ID:** 69D
		✓	Were samples preserved correctly and pH verified?	

Cooler ID	Temp Blank	Cooler Temp
1	5-7 °C	— °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

*Temperature readings include thermometer correction factors

	✓		If this is for PWS, provide **PWSID.**
	✓		Will courier charges apply?
			Method of payment?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

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

Airbill #

Additional Sample Remarks: (√ *if applicable*)

- ✓ Extra Sample Volume?
- Limited Sample Volume?
- Field preserved for volatiles?
- Field-filtered for dissolved?
- Lab-filtered for dissolved?
- Ref Lab required?
- Foreign Soil?

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

Yes	No		
		Is received temperature 4 ± 2°C?	
		Exceptions:	Samples/Analyses Affected:
		Rad Screen performed? Result:	
		Was there an airbill? *(Note # above in the right hand column)*	
		Was cooler sealed with custody seals? # / where:	
		Were seal(s) intact upon arrival?	
		Was there a COC with cooler?	
		Was COC sealed in plastic bag & taped inside lid of cooler?	
		Was the COC filled out properly?	
		Did the COC indicate COE / AFCEE / Navy project?	
		Did the COC and samples correspond?	
		Were all sample packed to prevent breakage? Packing material:	
		Were all samples unbroken and clearly labeled?	
		Were all samples sealed in separate plastic bags?	
		Were all VOCs free of headspace and/or MeOH preserved?	
		Were correct container / sample sizes submitted?	
		Is sample condition good?	
		Was copy of CoC, SRF, and custody seals given to PM to fax?	

This section must be filled if problems are found.

Yes	No	
		Was client notified of problems?

Individual contacted:

Via: Phone / Fax / Email (*circle one*)

Date/Time:

Reason for contact:

Change Order Required?

SGS Contact:

Notes:

Completed by (sign): (print): Janey Johnson

Login proof (check one): waived ✓ required ____ performed by:

SGS

SAMPLE RECEIPT FORM (page 2)

SGS WO#: 1063527

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	Container Type: AG	CG	HDPE	Nalgene	Cubie	Coli	Septa	Other	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
1-5	A	1	Color					10									X						X							
7,8,10-12																														
6	A	1	Color					1									X						X							
	B-C		↓ extra					2									X						X							
13	A	1	Color	Dup								SJA	6 A																	
14	A	1	↓	Dup								↓	↓ ↑																	
9	A	1	Color					1									X						X							
15	A	1		Dup								SJA	9 A																	
16	A	1	↓	Dup								↓	↓ A																	

Bottle Totals			14						

Completed by: _____ Date: 6-29-04

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

Tim Mayers
Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

Work Order:	1063449		
	516.02	**Released by:**	
Client:	Kinnetic Laboratories, Inc.	Barbara Hager	Barbara Hager 2006.07.10 16:09:52 -08'00'
Report Date:	June 30, 2006		

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 001543 for NELAP.

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.

The following descriptors may be found on your report which will serve to further qualify the data.

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.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.

SGS

SGS Ref.#	1063449001
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F1-1S MOA06CLR013
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 16:03
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449002	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	06/30/2006 9:50
Project Name/#	516.02	**Collected Date/Time**	06/27/2006 16:35
Client Sample ID	F1-2S MOA06CLR014	**Received Date/Time**	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449003
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F1-3S MOA06CLR015
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 16:50
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449004	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	06/30/2006 9:50
Project Name/#	516.02	**Collected Date/Time**	06/27/2006 17:16
Client Sample ID	F1-4S MOA06CLR016	**Received Date/Time**	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449005
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F2-1S MOA06CLR017
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 17:46
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449006
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F2-2S MOA06CLR018
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 17:57
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449007
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F2-3S MOA06CLR019
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 18:05
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449008	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	06/30/2006 9:50
Project Name/#	516.02	**Collected Date/Time**	06/27/2006 18:27
Client Sample ID	F2-4S MOA06CLR020	**Received Date/Time**	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449009
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F3-1S MOA06CLR021
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 19:45
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449010	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	06/30/2006 9:50
Project Name/#	516.02	**Collected Date/Time**	06/27/2006 19:52
Client Sample ID	F3-2S MOA06CLR022	**Received Date/Time**	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449011
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F3-3S MOA06CLR023
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 20:02
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449012
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F3-4S MOA06CLR024
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 20:12
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449013
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E1-1S MOA06CLR001
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 9:32
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449014
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E1-2S MOA06CLR002
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 9:42
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449015
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E1-3S MOA06CLR003
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 10:10
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449016
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E1-4S MOA06CLR004
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 10:36
Received Date/Time	06/28/2006 12:43
Technical Director	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	10.0	5.00	PCU	SM20 2120B	A	(<15)		06/28/06	CRY

SGS

SGS Ref.#	1063449017
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E2-1S MOA06CLR005
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 11:14
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449018
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E2-2S MOA06CLR006
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 11:20
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449019
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E2-3S MOA06CLR007
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 11:28
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449020
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E2-4S MOA06CLR008
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 11:54
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449021
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E3-1S MOA06CLR009
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 13:14
Received Date/Time	06/28/2006 12:43
Technical Director	**Stephen C. Ede**

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
Waters Department									
Color	10.0	5.00	PCU	SM20 2120B	A	(<15)		06/28/06	CRY

SGS

SGS Ref.#	1063449022	**All Dates/Times are Alaska Standard Time**	
Client Name	Kinnetic Laboratories, Inc.	**Printed Date/Time**	06/30/2006 9:50
Project Name/#	516.02	**Collected Date/Time**	06/27/2006 13:24
Client Sample ID	E3-2S MOA06CLR010	**Received Date/Time**	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449023
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E3-3S MOA06CLR011
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 13:52
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449024
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E3-4S MOA06CLR012
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	06/30/2006 9:50
Collected Date/Time	06/27/2006 14:11
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	FROM:
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

1063449

REQUIRED COMPLETION DATE:	P.O. #: AK06-1006	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	MOA06CLR013	6/27/06 1603	(1)	
F1-2S	MOA06CLR014	1635	(2)	
F1-3S	MOA06CLR015	1650	(3)	
F1-4S	MOA06CLR016	1716	(4)	
F2-1S	MOA06CLR017	1746	(5)	
F2-2S	MOA06CLR018	1757	(6)	
F2-3S	MOA06CLR019	1805	(7)	
F2-4S	MOA06CLR020	1827	(8)	
F3-1S	MOA06CLR021	1945	(9)	
F3-2S	MOA06CLR022	1952	(10) (25)	
F3-3S	MOA06CLR023	2002	(11)	
F3-4S	MOA06CLR024	2012	(12)	

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
	6/28/06 1240			
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
				6-28-06 1243

FB=5.8

C:\Projects\MOA\moa06\Field_06_Tim\COCs\tmRW_color06_SGSCOC.wpd

KINNETIC LABORATORIES, INC. CHAIN OF CUSTODY RECORD

LABORATORY:	**FROM:**
SGS Environmental Services, Inc. 200 W. Potter Anchorage, AK 99518 Attn: Bryan Arnold (907) 562-2343	Kinnetic Laboratories, Inc. 1102 West 7th Avenue Anchorage, AK 99501 Attn: Tim Mayers (907)276-6178

1063449

REQUIRED COMPLETION DATE:	**P.O. #:** AK06-1006	**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	MOA06CLR001	6/27/06 0932	(13) A	
E1-2S	MOA06CLR002	0942	(14)	
E1-3S	MOA06CLR003	1010	(15)	
E1-4S	MOA06CLR004	1036	(16)	
E2-1S	MOA06CLR005	1114	(17)	
E2-2S	MOA06CLR006	1126	(18)	
E2-3S	MOA06CLR007	1128	(19)	
E2-4S	MOA06CLR008	1154	(20) (26)	
E3-1S	MOA06CLR009	1314	(21)	
E3-2S	MOA06CLR010	1324	(22)	
E3-3S	MOA06CLR011	1352	(23)	
E3-4S	MOA06CLR012	1414	(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
	6/28/06 1240	hand		
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	TRANSPORTED BY:	RECEIVED BY:	DATE/TIME
				6-28-06 1243

Purchase Order

P. O. Number: AK06-1006

Kinnetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501
907.276.6178
Fax: 907.278.6881

1063449

To:

SGS Environmental Services, Inc.
200 Potter
Anchorage, AK 99518
Attn: Bryan Arnold
(907) 562-2343

Ship to (if different address):

P.O. DATE	PLACED BY	DATE EXPECTED	SHIP VIA	F.O.B.	TERMS
6/13/06	Tim Mayers	30 days			

QTY.	PROJ. #	DESCRIPTION	UNIT PRICE	TOTAL
40	516.02	Color (true) by SM 2120 B per quote 7778	30.00	1,200.00
				0.00
				0.00
				0.00
				0.00
1	516.02	Level II Report Prep and Excel EDD (10%)	N/C	0.00
				0.00
				0.00
				0.00
			SHIPPING & HANDLING	
			SUBTOTAL	1,200.00
			SALES TAX RATE	
			SALES TAX	0.00
			TOTAL DUE	**$1,200.00**

Authorized Signature

Dry_colorSGS06_1006po.wpd

1063449

SGS

SAMPLE RECEIPT FORM

SGS WO#:

Yes	No	NA		
✓			Are samples **RUSH**, priority, or *w/n 72 hrs.* of **hold time**?	**Due Date:** 7-13-06
	called		If yes have you done *e-mail notification*?	**Received Date:** 6-28-06
✓			Are samples *within 24 hrs.* of **hold time** or **due date**?	**Received Time:** 1243
		✓	If yes, have you *spoken with* Supervisor?	Is **date/time conversion** necessary? N
		✓	Archiving bottles – if req., are they properly marked?	# of hours to AK Local Time:
	✓		Are there any **problems**? PM Notified?	**Thermometer ID:** 5D
		✓	Were samples preserved correctly and pH verified?	

Cooler ID	Temp Blank	Cooler Temp
1	5-8 °C	°C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

*Temperature readings include thermometer correction factors

	✓		If this is for PWS, provide **PWSID.**
	✓		Will courier charges apply?
			Method of payment?
	✓		Data package required? (Level: 1 / 2 / 3 / 4)
			Notes:
	✓		Is this a DoD project? (USACE, Navy, AFCEE)

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

Airbill #

Additional Sample Remarks: *(√ if applicable)*

_____ Extra Sample Volume?
_____ Limited Sample Volume?
_____ Field preserved for volatiles?
_____ Field-filtered for dissolved? _____
_____ Lab-filtered for dissolved? _____
_____ Ref Lab required? _____
_____ Foreign Soil?

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

Yes	No		
		Is received temperature 4 ± 2°C?	
		Exceptions:	Samples/Analyses Affected:
		Rad Screen performed? Result:	
		Was there an airbill? *(Note # above in the right hand column)*	
		Was cooler sealed with custody seals?	
		# / where:	
		Were seal(s) intact upon arrival?	
		Was there a COC with cooler?	
		Was COC sealed in plastic bag & taped inside lid of cooler?	
		Was the COC filled out properly?	
		Did the COC indicate COE / AFCEE / Navy project?	
		Did the COC and samples correspond?	
		Were all sample packed to prevent breakage?	
		Packing material:	
		Were all samples unbroken and clearly labeled?	
		Were all samples sealed in separate plastic bags?	
		Were all VOCs free of headspace and/or MeOH preserved?	
		Were correct container / sample sizes submitted?	
		Is sample condition good?	
		Was copy of CoC, SRF, and custody seals given to PM to fax?	

This section must be filled if problems are found.

Yes No ____ ____ Was client notified of problems?

Individual contacted: _____
Via: Phone / Fax / Email (*circle one*)
Date/Time: _____
Reason for contact: _____

Change Order Required? _____
SGS Contact: _____

Notes: _____

Completed by (sign): _____ **(print):** Jamey Johnson

Login proof (check one): waived ✓ required ____ performed by: _____

SGS

1063449

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume: 1 L	500 mL	250 mL	125 mL	60 mL	40 mL	8oz (250 mL)	4oz (125 mL)	Other	Container Type: AG	CG	HDPE	Nalgene	Cubie	Coli	Septa	Other	Preservative: None	HCl	HNO_3	H_2SO_4	MeOH	$Na_2S_2O_3$	NaOH	Other
1-24	A	1	Color					24									X						X							
25,26	A	1	Color	Dup								SJA		(10) (20) A																

Bottle Totals			24						

Completed by: _____ Date: 6-28-06

SGS

SGS Ref.#	1063449025
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	F3-2S MOA06CLR022-DUP
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	12/11/2006 13:56
Collected Date/Time	06/27/2006 19:52
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

SGS

SGS Ref.#	1063449026
Client Name	Kinnetic Laboratories, Inc.
Project Name/#	516.02
Client Sample ID	E2-4S MOA06CLR008-DUP
Matrix	Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time

Printed Date/Time	12/11/2006 13:56
Collected Date/Time	06/27/2006 11:54
Received Date/Time	06/28/2006 12:43
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)		06/28/06	CRY

APPENDIX D

Receiving Water Quality Monitoring

D8 Turbidity and Salinity

Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU

PROJECT: SUMMER 2006 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.05	6/27/06	16:30

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	DILUTION FACTOR	MEASURED TURBIDITY (NTU)	ACTUAL TURBIDITY (NTU)
MOA06TUR0001	E1-1S	6/27/2006	9:32	6/27/06	16:40	0	381	381
MOA06TUR0002	E1-1M	6/27/2006	9:32	6/27/06	16:45	0	411	411
MOA06TUR0003	E1-1B	6/27/2006	9:32	6/27/06	16:49	0	491	491
MOA06TUR0004	E1-2S	6/27/2006	9:44	6/27/06	16:56	0	308/331	308/331
MOA06TUR0005	E1-2M	6/27/2006	9:44	6/27/06	17:02	0	420	420
MOA06TUR0006	E1-2B	6/27/2006	9:44	6/27/06	17:08	0	484	484
MOA06TUR0007	E1-3S	6/27/2006	10:10	6/27/06	17:09	0	246	246
MOA06TUR0008	E1-3M	6/27/2006	10:10	6/27/06	17:14	0	369	369
MOA06TUR0009	E1-3B	6/27/2006	10:10	6/27/06	17:20	0	326	326
MOA06TUR0010	E1-4S	6/27/2006	10:36	6/27/06	17:27	0	264	264
MOA06TUR0011	E1-4M	6/27/2006	10:36	6/27/06	17:31	0	330	330
MOA06TUR0012	E1-4B	6/27/2006	10:36	6/27/06	17:34	0	320	320
MOA06TUR0013	E2-1S	6/27/2006	11:14	6/27/06	17:39	0	418	418
MOA06TUR0014	E2-1M	6/27/2006	11:14	6/27/06	17:44	0	436	436
MOA06TUR0015	E2-1B	6/27/2006	11:14	6/27/06	17:47	0	425	425
MOA06TUR0016	E2-2S	6/27/2006	11:20	6/27/06	17:52	0	439	439
MOA06TUR0017	E2-2M	6/27/2006	11:20	6/27/06	17:55	0	424	424
MOA06TUR0018	E2-2B	6/27/2006	11:20	6/27/06	18:00	0	443/439	443/439
MOA06TUR0019	E2-3S	6/27/2006	11:28	6/27/06	18:04	0	315	315
MOA06TUR0020	E2-3M	6/27/2006	11:28	6/27/06	18:06	0	391	391
MOA06TUR0021	E2-3B	6/27/2006	11:28	6/27/06	18:08	0	411	411
MOA06TUR0022	E2-4S	6/27/2006	11:54	6/27/06	18:09	0	354	354
MOA06TUR0023	E2-4M	6/27/2006	11:54	6/27/06	18:11	0	396	396
MOA06TUR0024	E2-4B	6/27/2006	11:54	6/27/06	18:13	0	427	427
MOA06TUR0025	E3-1S	6/27/2006	13:14	6/27/06	18:15	0	408	408
MOA06TUR0026	E3-1M	6/27/2006	13:14	6/27/06	18:17	0	420	420
MOA06TUR0027	E3-1B	6/27/2006	13:14	6/27/06	18:20	0	413	413
MOA06TUR0028	E3-2S	6/27/2006	13:24	6/27/06	18:22	0	268	268
MOA06TUR0029	E3-2M	6/27/2006	13:24	6/27/06	18:23	0	393	393
MOA06TUR0030	E3-2B	6/27/2006	13:24	6/27/06	18:25	0	433	433
MOA06TUR0031	E3-3S	6/27/2006	13:52	6/27/06	18:27	0	365	365
MOA06TUR0032	E3-3M	6/27/2006	13:52	6/27/06	18:29	0	408	408
MOA06TUR0033	E3-3B	6/27/2006	13:52	6/27/06	18:31	0	444/459	444/459
MOA06TUR0034	E3-4S	6/27/2006	14:11	6/27/06	18:34	0	362	362
MOA06TUR0035	E3-4M	6/27/2006	14:11	6/27/06	18:38	0	445	445
MOA06TUR0036	E3-4B	6/27/2006	14:11	6/27/06	18:43	0	499	499

ANALYZED BY: G. LAWLEY DATE: 6/27/06 SIGNATURE:

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU
PROJECT: SUMMER 2006 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.07	6/28/06	10:00

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	DILUTION FACTOR	MEASURED TURBIDITY (NTU)	ACTUAL TURBIDITY (NTU)
MOA06TUR0037	F1-1S	6/27/2006	16:03	6/28/06	10:00	0	234	234
MOA06TUR0038	F1-1M	6/27/2006	16:03	6/28/06	10:05	0	250	250
MOA06TUR0039	F1-1B	6/27/2006	16:03	6/28/06	10:15	0	271/288	271/288
MOA06TUR0040	F1-2S	6/27/2006	16:35	6/28/06	10:17	0	245	245
MOA06TUR0041	F1-2M	6/27/2006	16:35	6/28/06	10:36	0	286	286
MOA06TUR0042	F1-2B	6/27/2006	16:35	6/28/06	10:38	0	305	305
MOA06TUR0043	F1-3S	6/27/2006	16:50	6/28/06	10:40	0	299	299
MOA06TUR0044	F1-3M	6/27/2006	16:50	6/28/06	10:42	0	319	319
MOA06TUR0045	F1-3B	6/27/2006	16:50	6/28/06	10:44	0	324	324
MOA06TUR0046	F1-4S	6/27/2006	17:16	6/28/06	10:46	0	182	182
MOA06TUR0047	F1-4M	6/27/2006	17:16	6/28/06	10:48	0	210	210
MOA06TUR0048	F1-4B	6/27/2006	17:16	6/28/06	10:50	0	229	229
MOA06TUR0049	F2-1S	6/27/2006	17:46	6/28/06	10:51	0	450/453	450/453
MOA06TUR0050	F2-1M	6/27/2006	17:46	6/28/06	10:54	0	449	449
MOA06TUR0051	F2-1B	6/27/2006	17:46	6/28/06	10:56	0	461	461
MOA06TUR0052	F2-2S	6/27/2006	17:57	6/28/06	10:59	0	335	335
MOA06TUR0053	F2-2M	6/27/2006	17:57	6/28/06	11:00	0	466	466
MOA06TUR0054	F2-2B	6/27/2006	17:57	6/28/06	11:02	0	493	493
MOA06TUR0055	F2-3S	6/27/2006	18:05	6/28/06	11:04	0	427	427
MOA06TUR0056	F2-3M	6/27/2006	18:05	6/28/06	11:06	0	549	549
MOA06TUR0057	F2-3B	6/27/2006	18:05	6/28/06	11:10	0	549	549
MOA06TUR0058	F2-4S	6/27/2006	18:27	6/28/06	11:12	0	284	284
MOA06TUR0059	F2-4M	6/27/2006	18:27	6/28/06	11:16	0	577/562	577/562
MOA06TUR0060	F2-4B	6/27/2006	18:27	6/28/06	11:18	0	573	573
MOA06TUR0061	F3-1S	6/27/2006	19:45	6/28/06	11:19	0	358	358
MOA06TUR0062	F3-1M	6/27/2006	19:45	6/28/06	11:20	0	366	366
MOA06TUR0063	F3-1B	6/27/2006	19:45	6/28/06	11:22	0	379	379
MOA06TUR0064	F3-2S	6/27/2006	19:52	6/28/06	11:25	0	326	326
MOA06TUR0065	F3-2M	6/27/2006	19:52	6/28/06	11:27	0	265	265
MOA06TUR0066	F3-2B	6/27/2006	19:52	6/28/06	11:29	0	400	400
MOA06TUR0067	F3-3S	6/27/2006	20:02	6/28/06	11:30	0	317	317
MOA06TUR0068	F3-3M	6/27/2006	20:02	6/28/06	11;33	0	441	441
MOA06TUR0069	F3-3B	6/27/2006	20:02	6/28/06	11:36	0	444/473	444/473
MOA06TUR0070	F3-4S	6/27/2006	20:12	6/28/06	11:39	0	355	355
MOA06TUR0071	F3-4M	6/27/2006	20:12	6/28/06	11:42	0	427	427
MOA06TUR0072	F3-4B	6/27/2006	20:12	6/28/06	11:46	0	392	392

ANALYZED BY: G. LAWLOR DATE: 6/28/06 SIGNATURE:

KINNETIC LABORATORIES, INC.
TURBIDITY DATA LOG

CLIENT: MUNICIPALITY OF ANCHORAGE AWWU

PROJECT: SUMMER 2006 JOHN M. ASPLUND WPCF RECEIVING WATER QUALITY

CALIBRATION STANDARDS:

	STD 1:	READ	DATE	TIME
Turbidity	0.02	0.05	6/29/06	10:06

SAMPID	STATION	SAMPLE DATE	SAMPLE TIME	ANALYSIS DATE	ANALYSIS TIME	DILUTION FACTOR	MEASURED TURBIDITY (NTU)	ACTUAL TURBIDITY (NTU)
MOA06TUR0073	C1-1S	6/28/2006	16:34	6/29/06	10:25	0	106	106
MOA06TUR0074	C1-1M	6/28/2006	16:34	6/29/06	10:36	0	496	496
MOA06TUR0075	C1-1B	6/28/2006	16:34	6/29/06	10:44	0	558	558
MOA06TUR0076	C1-2S	6/28/2006	16:50	6/29/06	10:48	0	138	138
MOA06TUR0077	C1-2M	6/28/2006	16:50	6/29/06	10:50	0	384	384
MOA06TUR0078	C1-2B	6/28/2006	16:50	6/29/06	10:52	0	580	580
MOA06TUR0079	C1-3S	6/28/2006	17:10	6/29/06	10:56	0	153/171	153/171
MOA06TUR0080	C1-3M	6/28/2006	17:10	6/29/06	10:57	0	206	206
MOA06TUR0081	C1-3B	6/28/2006	17:10	6/29/06	11:00	0	575	575
MOA06TUR0082	C1-4S	6/28/2006	17:38	6/29/06	11:03	0	310	310
MOA06TUR0083	C1-4M	6/28/2006	17:38	6/29/06	11:05	0	298	298
MOA06TUR0084	C1-4B	6/28/2006	17:38	6/29/06	11:07	0	357	357
MOA06TUR0085	C2-1S	6/28/2006	18:35	6/29/06	11:18	0	084	084
MOA06TUR0086	C2-1M	6/28/2006	18:35	6/29/06	11:20	0	193	193
MOA06TUR0087	C2-1B	6/28/2006	18:35	6/29/06	11:22	0	353	353
MOA06TUR0088	C2-2S A	6/28/2006	18:43	6/29/06	11:09	0	290	290
MOA06TUR0089	C2-2S B	6/28/2006	18:43	6/29/06	11:10/11:11	0	257/260	257/260
MOA06TUR0090	C2-2S C	6/28/2006	18:43	6/29/06	11:13	0	258	258
MOA06TUR0091	C2-2M	6/28/2006	18:43	6/29/06	11:15	0	301	301
MOA06TUR0092	C2-2B	6/28/2006	18:43	6/29/06	11:17	0	328	328
MOA06TUR0093	C2-3S	6/28/2006	18:52	6/29/06	11:23	0	193	193
MOA06TUR0094	C2-3M	6/28/2006	18:52	6/29/06	11:27	0	313	313
MOA06TUR0095	C2-3B	6/28/2006	18:52	6/29/06	11:29	0	400	400
MOA06TUR0096	C2-4S	6/28/2006	19:14	6/29/06	11:31	0	274	274
MOA06TUR0097	C2-4M	6/28/2006	19:14	6/29/06	11:33	0	571	571
MOA06TUR0098	C2-4B	6/28/2006	19:14	6/29/06	11:35	0	575	575
MOA06TUR0099	C3-1S A	6/28/2006	20:05	6/29/06	10:18	0	416	416
MOA06TUR0100	C3-1S B	6/28/2006	20:05	6/29/06	10:20	0	452	452
MOA06TUR0101	C3-1S C	6/28/2006	20:05	6/29/06	10:22	0	465	465
MOA06TUR0102	C3-1M	6/28/2006	20:05	6/29/06	10:10	0	393	393
MOA06TUR0103	C3-1B	6/28/2006	20:05	6/29/06	10:15	0	406/409	406/409
MOA06TUR0104	C3-2S	6/28/2006	20:14	6/29/06	11:44	0	388	388
MOA06TUR0105	C3-2M	6/28/2006	20:14	6/29/06	11:46	0	448	448
MOA06TUR0106	C3-2B	6/28/2006	20:14	6/29/06	11:48	0	485	485
MOA06TUR0107	C3-3S	6/28/2006	20:25	6/29/06	11:50	0	393	393
MOA06TUR0108	C3-3M	6/28/2006	20:25	6/29/06	11:52	0	433	433
MOA06TUR0109	C3-3B	6/28/2006	20:25	6/29/06	11:54	0	445	445
MOA06TUR0110	C3-4S	6/28/2006	20:40	6/29/06	11:"55	0	417	417
MOA06TUR0111	C3-4M	6/28/2006	20:40	6/29/06	11:57	0	441/452	441/452
MOA06TUR0112	C3-4B	6/28/2006	20:40	6/29/06	12:00	0	515	515

ANALYZED BY: C. LAWLEY DATE: 6/29/06 SIGNATURE:

Kinnetic Laboratories, Inc. - Salinity Data Form

Project: 516.02 MOA RIC WATER Date: 6/27/06	Analyst: T. WAYERS Analysis Date: 7/20/06
Notes:	

Bottle #	Station	Sample ID	Salinity	Temp (Cel)	Comments
1 of 1	F3-4S	MOA06SAL001	5.8 PPT	20.8	
1 of 1	F3-4M	MOA06SAL002	5.7 PPT	20.5	
1 of 1	F3-4B	MOA06SAL003	5.2 PPT	20.4	
1 of 1	C2-2B	MOA06SAL004	4.4 PPT	20.4	
1 of 1	C2-2M	MOA06SAL005	4.4 PPT	21.1	
1 of 1	C2-2S	MOA06SAL006	4.7 PPT	20.9	

APPENDIX D

Receiving Water Quality Monitoring

D9 Hydrographic Data Profiles

Kinnetic Laboratories, Inc.

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E1-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.214	1.836	14.768	7.93	7.18	10.898	0
1.0	12.197	1.842	14.832	7.96	7.16	10.950	0
1.5	12.190	1.847	14.879	8.01	7.19	10.987	0
2.0	12.185	1.850	14.902	8.03	7.29	11.006	0
2.5	12.175	1.852	14.926	8.05	7.38	11.026	0
3.0	12.170	1.853	14.935	8.07	7.53	11.034	0
3.5	12.157	1.853	14.945	8.07	7.68	11.044	0
4.0	12.149	1.854	14.953	8.07	7.84	11.050	0
4.5	12.143	1.854	14.956	8.08	8.02	11.054	0
5.0	12.139	1.854	14.957	8.08	8.16	11.056	0
5.5	12.126	1.854	14.962	8.08	8.21	11.061	0
6.0	12.122	1.854	14.964	8.08	8.14	11.063	0
6.5	12.121	1.854	14.967	8.08	8.04	11.066	0
7.0	12.119	1.855	14.971	8.08	8.07	11.069	0
7.5	12.115	1.855	14.979	8.08	8.19	11.076	0
8.0	12.114	1.856	14.987	8.08	8.32	11.082	0
8.5	12.113	1.857	14.994	8.08	8.11	11.087	0
9.0	12.119	1.857	14.994	8.08	7.90	11.087	0
9.5	12.115	1.857	14.993	8.09	7.97	11.087	0
10.0	12.120	1.856	14.986	8.09	8.10	11.080	0
10.5	12.116	1.855	14.970	8.09	8.04	11.069	0
11.0	12.110	1.848	14.913	8.09	8.09	11.026	0
11.5	12.108	1.831	14.765	8.09	8.26	10.912	0
12.0	12.108	1.819	14.664	8.09	8.28	10.834	0
12.5	12.108	1.836	14.808	8.09	8.47	10.945	0
13.0	12.108	1.848	14.915	8.09	8.40	11.028	0
13.5	12.107	1.855	14.979	8.10	8.19	11.077	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E1-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.262	1.880	15.138	7.88	7.15	11.176	0
1.0	12.226	1.879	15.143	7.98	7.23	11.186	0
1.5	12.210	1.879	15.146	7.99	7.32	11.190	0
2.0	12.202	1.879	15.151	8.00	7.42	11.196	0
2.5	12.193	1.875	15.119	8.03	7.53	11.172	0
3.0	12.192	1.873	15.101	8.04	7.60	11.159	0
3.5	12.189	1.879	15.154	8.05	7.64	11.200	0
4.0	12.182	1.878	15.151	8.05	7.74	11.198	0
4.5	12.168	1.881	15.179	8.05	7.85	11.222	0
5.0	12.157	1.882	15.200	8.05	7.91	11.241	0
5.5	12.140	1.883	15.212	8.05	7.96	11.252	0
6.0	12.114	1.883	15.226	8.05	8.01	11.266	0
6.5	12.103	1.884	15.233	8.05	8.05	11.274	0
7.0	12.099	1.884	15.239	8.06	8.06	11.280	0
7.5	12.091	1.885	15.246	8.06	8.04	11.285	0
8.0	12.075	1.885	15.254	8.06	8.01	11.294	0
8.5	12.069	1.885	15.257	8.06	7.92	11.298	0
9.0	12.060	1.885	15.261	8.06	7.88	11.302	0
9.5	12.059	1.885	15.262	8.06	7.87	11.303	0
10.0	12.051	1.885	15.267	8.06	7.81	11.308	0
10.5	12.043	1.885	15.270	8.06	7.74	11.312	0
11.0	12.039	1.885	15.268	8.06	7.77	11.310	0
11.5	12.039	1.883	15.254	8.07	7.86	11.300	0
12.0	12.039	1.880	15.224	8.07	7.99	11.277	0
12.5	12.035	1.872	15.159	8.07	7.91	11.227	0
13.0	12.033	1.858	15.035	8.07	7.99	11.131	0
13.5	12.034	1.870	15.139	8.08	8.17	11.211	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E1-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.161	1.859	14.994	7.93	7.58	11.081	0
1.0	12.128	1.868	15.084	7.95	7.63	11.155	0
1.5	12.116	1.875	15.156	7.96	7.70	11.213	0
2.0	12.103	1.880	15.202	7.98	7.81	11.250	0
2.5	12.094	1.884	15.241	7.98	7.92	11.282	0
3.0	12.082	1.884	15.246	7.98	7.92	11.287	0
3.5	12.070	1.885	15.259	7.98	7.94	11.299	0
4.0	12.067	1.889	15.293	7.98	8.07	11.325	0
4.5	12.065	1.889	15.297	7.98	8.18	11.329	0
5.0	12.061	1.889	15.300	7.98	8.27	11.332	0
5.5	12.046	1.889	15.307	7.98	8.27	11.339	0
6.0	12.027	1.889	15.315	7.98	8.36	11.348	0
6.5	12.021	1.889	15.318	7.98	8.41	11.352	0
7.0	12.022	1.890	15.318	7.98	8.40	11.352	0
7.5	12.027	1.890	15.316	7.99	8.42	11.350	0
8.0	12.022	1.890	15.318	7.99	8.45	11.352	0
8.5	12.015	1.889	15.318	7.99	8.53	11.353	0
9.0	12.008	1.889	15.317	7.99	8.56	11.353	0
9.5	12.018	1.888	15.306	7.99	8.59	11.343	0
10.0	12.020	1.887	15.293	7.99	8.62	11.332	0
10.5	12.017	1.885	15.279	7.99	8.60	11.322	0
11.0	12.012	1.882	15.250	7.99	8.66	11.301	0
11.5	12.010	1.876	15.200	8.00	8.74	11.263	0
12.0	12.000	1.870	15.150	8.00	8.75	11.225	0
12.5	11.996	1.866	15.121	8.00	8.73	11.204	0
13.0	11.994	1.870	15.153	8.00	8.70	11.229	0
13.5	11.992	1.877	15.214	8.00	8.71	11.276	0
14.0	11.991	1.884	15.276	8.00	8.73	11.324	0
14.5	11.988	1.889	15.328	8.01	8.75	11.365	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E2-1 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.381	1.744	13.903	7.93	8.25	10.206	0
1.0	12.380	1.744	13.908	7.93	8.39	10.209	0
1.5	12.380	1.744	13.909	7.93	8.44	10.211	0
2.0	12.380	1.745	13.913	7.93	8.52	10.214	0
2.5	12.380	1.745	13.914	7.93	8.68	10.214	0
3.0	12.379	1.745	13.912	7.93	8.56	10.213	0
3.5	12.379	1.745	13.917	7.93	8.43	10.217	0
4.0	12.379	1.746	13.920	7.93	8.53	10.219	0
4.5	12.379	1.746	13.921	7.93	8.91	10.220	0
5.0	12.377	1.746	13.922	7.93	9.11	10.221	0
5.5	12.376	1.746	13.923	7.93	9.41	10.222	0
6.0	12.375	1.746	13.923	7.93	9.32	10.222	0
6.5	12.377	1.746	13.924	7.93	9.37	10.222	0
7.0	12.377	1.746	13.924	7.93	9.48	10.222	0
7.5	12.377	1.746	13.922	7.93	9.61	10.221	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E2-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.387	1.745	13.913	7.92	7.61	10.212	0
1.0	12.382	1.745	13.911	7.92	7.37	10.212	0
1.5	12.385	1.744	13.905	7.92	7.36	10.206	0
2.0	12.385	1.744	13.903	7.93	7.43	10.205	0
2.5	12.384	1.744	13.905	7.93	7.51	10.207	0
3.0	12.380	1.744	13.906	7.93	7.58	10.208	0
3.5	12.379	1.744	13.906	7.93	7.58	10.208	0
4.0	12.378	1.744	13.906	7.93	7.54	10.208	0
4.5	12.379	1.744	13.907	7.93	7.59	10.209	0
5.0	12.380	1.744	13.909	7.93	7.65	10.210	0
5.5	12.378	1.745	13.911	7.93	7.74	10.212	0
6.0	12.378	1.745	13.911	7.93	7.79	10.212	0
6.5	12.379	1.745	13.912	7.93	7.90	10.213	0
7.0	12.379	1.745	13.912	7.93	8.03	10.213	0
7.5	12.378	1.745	13.914	7.93	8.12	10.215	0
8.0	12.377	1.745	13.916	7.94	8.22	10.217	0
8.5	12.377	1.745	13.917	7.94	8.34	10.217	0
9.0	12.375	1.745	13.918	7.94	8.38	10.218	0
9.5	12.375	1.745	13.918	7.94	8.47	10.219	0
10.0	12.376	1.746	13.919	7.94	8.59	10.219	0
10.5	12.375	1.746	13.921	7.94	8.68	10.220	0
11.0	12.375	1.746	13.923	7.94	8.77	10.222	0
11.5	12.374	1.746	13.924	7.95	8.75	10.223	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E2-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.399	1.755	13.992	7.88	7.26	10.272	0
1.0	12.397	1.755	13.993	7.88	7.21	10.273	0
1.5	12.395	1.755	13.993	7.89	7.30	10.273	0
2.0	12.393	1.755	13.994	7.89	7.37	10.274	0
2.5	12.393	1.755	13.994	7.89	7.44	10.274	0
3.0	12.393	1.755	13.995	7.89	7.47	10.275	0
3.5	12.392	1.755	13.995	7.89	7.48	10.275	0
4.0	12.391	1.755	13.997	7.90	7.55	10.277	0
4.5	12.390	1.755	13.998	7.90	7.58	10.278	0
5.0	12.390	1.755	14.000	7.90	7.63	10.279	0
5.5	12.388	1.756	14.003	7.90	7.76	10.282	0
6.0	12.385	1.756	14.007	7.90	7.88	10.285	0
6.5	12.384	1.756	14.010	7.90	8.02	10.288	0
7.0	12.383	1.756	14.011	7.90	8.17	10.289	0
7.5	12.380	1.757	14.013	7.90	8.33	10.291	0
8.0	12.377	1.757	14.017	7.91	8.51	10.294	0
8.5	12.376	1.757	14.019	7.91	8.78	10.296	0
9.0	12.376	1.757	14.021	7.91	8.80	10.297	0
9.5	12.376	1.757	14.022	7.91	8.97	10.298	0
10.0	12.377	1.757	14.019	7.91	9.22	10.296	0
10.5	12.378	1.756	14.006	7.91	9.15	10.286	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E2-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.407	1.765	14.074	7.87	7.12	10.334	0
1.0	12.399	1.766	14.088	7.88	7.12	10.345	0
1.5	12.384	1.767	14.103	7.88	7.14	10.360	0
2.0	12.375	1.768	14.114	7.88	7.15	10.369	0
2.5	12.372	1.768	14.119	7.88	7.16	10.374	0
3.0	12.368	1.769	14.124	7.88	7.22	10.378	0
3.5	12.364	1.768	14.124	7.88	7.33	10.378	0
4.0	12.361	1.768	14.120	7.88	7.43	10.376	0
4.5	12.363	1.768	14.116	7.88	7.56	10.372	0
5.0	12.366	1.767	14.109	7.88	7.72	10.367	0
5.5	12.367	1.767	14.109	7.89	7.91	10.367	0
6.0	12.367	1.767	14.111	7.89	8.07	10.368	0
6.5	12.365	1.768	14.119	7.89	8.25	10.375	0
7.0	12.362	1.769	14.125	7.89	8.44	10.380	0
7.5	12.360	1.769	14.127	7.89	8.64	10.381	0
8.0	12.358	1.769	14.126	7.89	8.76	10.381	0
8.5	12.357	1.769	14.130	7.90	8.89	10.385	0
9.0	12.356	1.769	14.134	7.90	8.93	10.388	0
9.5	12.357	1.769	14.133	7.90	8.98	10.386	0
10.0	12.357	1.770	14.135	7.90	9.19	10.388	0
10.5	12.356	1.770	14.138	7.90	9.23	10.391	0
11.0	12.356	1.769	14.134	7.90	9.27	10.388	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E3-1 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.628	1.640	12.924	7.81	8.93	9.414	0
1.0	12.627	1.641	12.932	7.81	8.97	9.420	0
1.5	12.622	1.642	12.941	7.82	8.90	9.428	0
2.0	12.621	1.642	12.943	7.82	8.90	9.429	0
2.5	12.621	1.642	12.941	7.82	9.18	9.428	0
3.0	12.619	1.642	12.937	7.82	9.49	9.425	0
3.5	12.618	1.642	12.942	7.82	9.55	9.429	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E3-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.636	1.635	12.881	7.82	7.29	9.379	0
1.0	12.627	1.637	12.896	7.82	7.37	9.392	0
1.5	12.627	1.637	12.894	7.82	7.36	9.390	0
2.0	12.627	1.636	12.891	7.82	7.43	9.388	0
2.5	12.605	1.636	12.895	7.82	7.45	9.395	0
3.0	12.596	1.636	12.896	7.83	7.53	9.397	0
3.5	12.591	1.636	12.897	7.83	7.55	9.399	0
4.0	12.589	1.636	12.899	7.83	7.54	9.401	0
4.5	12.590	1.636	12.900	7.83	7.53	9.401	0
5.0	12.597	1.636	12.899	7.83	7.54	9.399	0
5.5	12.599	1.636	12.899	7.83	7.67	9.399	0
6.0	12.598	1.636	12.900	7.83	7.88	9.399	0
6.5	12.595	1.637	12.904	7.84	8.07	9.403	0
7.0	12.595	1.637	12.907	7.84	8.29	9.405	0
7.5	12.602	1.637	12.905	7.84	8.59	9.403	0
8.0	12.600	1.637	12.906	7.84	8.95	9.404	0
8.5	12.599	1.637	12.906	7.84	9.31	9.404	0
9.0	12.597	1.637	12.908	7.84	9.33	9.406	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E3-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.646	1.636	12.884	7.81	8.67	9.380	0
1.0	12.641	1.637	12.888	7.81	8.81	9.384	0
1.5	12.638	1.637	12.889	7.81	8.76	9.385	0
2.0	12.637	1.637	12.889	7.81	8.80	9.385	0
2.5	12.635	1.637	12.890	7.81	8.96	9.387	0
3.0	12.634	1.637	12.891	7.81	9.10	9.387	0
3.5	12.634	1.637	12.891	7.81	9.19	9.387	0
4.0	12.633	1.637	12.891	7.81	9.31	9.387	0
4.5	12.630	1.637	12.893	7.81	9.39	9.389	0
5.0	12.630	1.637	12.894	7.81	9.54	9.390	0
5.5	12.630	1.637	12.894	7.81	9.72	9.390	0
6.0	12.631	1.637	12.893	7.81	9.67	9.389	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: E3-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.686	1.638	12.888	7.81	8.41	9.377	0
1.0	12.675	1.639	12.895	7.81	8.49	9.384	0
1.5	12.670	1.639	12.896	7.81	8.61	9.386	0
2.0	12.666	1.639	12.901	7.81	8.77	9.390	0
2.5	12.668	1.639	12.903	7.81	8.97	9.392	0
3.0	12.664	1.640	12.908	7.81	9.19	9.396	0
3.5	12.662	1.640	12.907	7.81	9.40	9.395	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F1-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.186	1.588	12.297	7.78	9.41	8.844	0
1.0	13.168	1.588	12.302	7.79	9.29	8.851	0
1.5	13.148	1.588	12.307	7.79	9.50	8.858	0
2.0	13.140	1.588	12.309	7.79	9.56	8.861	0
2.5	13.137	1.588	12.309	7.79	9.68	8.862	0
3.0	13.131	1.588	12.309	7.80	9.62	8.863	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F1-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.146	1.438	11.053	7.80	9.44	7.894	0
1.0	13.108	1.501	11.586	7.78	9.34	8.310	0
1.5	13.136	1.545	11.947	7.76	9.18	8.583	0
2.0	13.150	1.562	12.085	7.76	9.12	8.688	0
2.5	13.155	1.571	12.164	7.76	9.30	8.747	0
3.0	13.162	1.572	12.166	7.76	9.57	8.748	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F1-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.811	1.604	12.233	7.81	9.00	8.695	0
1.0	13.812	1.604	12.233	7.81	9.14	8.695	0
1.5	13.813	1.604	12.233	7.81	9.06	8.695	0
2.0	13.808	1.604	12.232	7.81	9.21	8.695	0
2.5	13.801	1.604	12.233	7.81	9.31	8.697	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F2-1 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.270	1.722	13.399	7.74	9.80	9.679	0
1.0	13.269	1.721	13.392	7.74	9.88	9.674	0
1.5	13.262	1.720	13.384	7.74	9.90	9.669	0
2.0	13.257	1.719	13.379	7.74	10.22	9.666	0
2.5	13.239	1.717	13.369	7.74	10.17	9.661	0
3.0	13.230	1.717	13.371	7.74	10.45	9.664	0
3.5	13.239	1.719	13.380	7.74	10.36	9.670	0
4.0	13.244	1.719	13.379	7.74	10.62	9.668	0
4.5	13.225	1.717	13.367	7.74	10.86	9.662	0
5.0	13.228	1.717	13.367	7.75	11.31	9.662	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F2-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.179	1.696	13.209	7.73	8.23	9.547	0
1.0	13.147	1.695	13.216	7.73	8.35	9.558	0
1.5	13.134	1.695	13.216	7.73	8.48	9.560	0
2.0	13.122	1.694	13.215	7.74	8.62	9.561	0
2.5	13.113	1.694	13.213	7.74	8.77	9.561	0
3.0	13.111	1.694	13.213	7.74	8.93	9.561	0
3.5	13.108	1.694	13.214	7.74	9.09	9.563	0
4.0	13.109	1.694	13.217	7.74	9.18	9.564	0
4.5	13.115	1.694	13.214	7.74	9.27	9.562	0
5.0	13.115	1.694	13.211	7.74	9.42	9.559	0
5.5	13.119	1.693	13.204	7.74	9.60	9.553	0
6.0	13.120	1.692	13.198	7.74	9.63	9.548	0
6.5	13.112	1.692	13.195	7.74	9.72	9.547	0
7.0	13.103	1.691	13.193	7.75	9.78	9.547	0
7.5	13.094	1.690	13.182	7.75	9.69	9.540	0
8.0	13.091	1.689	13.181	7.75	9.80	9.540	0
8.5	13.090	1.689	13.178	7.75	9.79	9.537	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F2-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.037	1.663	12.976	7.72	8.86	9.390	0
1.0	13.013	1.661	12.969	7.72	8.86	9.389	0
1.5	13.005	1.657	12.942	7.72	8.83	9.369	0
2.0	13.002	1.656	12.934	7.72	8.85	9.364	0
2.5	13.002	1.656	12.934	7.72	8.91	9.364	0
3.0	13.002	1.656	12.929	7.72	9.04	9.360	0
3.5	12.999	1.655	12.922	7.72	9.24	9.355	0
4.0	12.999	1.656	12.928	7.72	9.43	9.360	0
4.5	12.999	1.657	12.939	7.72	9.56	9.368	0
5.0	13.002	1.658	12.947	7.72	9.33	9.374	0
5.5	13.005	1.660	12.961	7.72	9.42	9.384	0
6.0	13.007	1.661	12.969	7.73	9.63	9.390	0
6.5	13.007	1.661	12.968	7.73	9.84	9.389	0
7.0	13.010	1.661	12.973	7.73	9.89	9.393	0
7.5	13.010	1.660	12.964	7.73	9.84	9.386	0
8.0	13.009	1.661	12.967	7.73	9.90	9.388	0
8.5	13.012	1.662	12.974	7.73	9.93	9.393	0
9.0	13.011	1.662	12.973	7.73	9.93	9.393	0
9.5	13.011	1.661	12.972	7.73	9.99	9.392	0
10.0	13.012	1.662	12.974	7.73	10.02	9.393	0
10.5	13.013	1.662	12.976	7.73	9.89	9.394	0
11.0	13.015	1.662	12.972	7.73	9.80	9.391	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F2-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.063	1.646	12.826	7.71	9.26	9.271	0
1.0	13.028	1.647	12.844	7.72	9.14	9.291	0
1.5	13.043	1.651	12.876	7.72	9.22	9.313	0
2.0	13.054	1.653	12.888	7.72	9.31	9.320	0
2.5	13.061	1.653	12.888	7.72	9.39	9.319	0
3.0	13.067	1.653	12.885	7.72	9.45	9.316	0
3.5	13.069	1.653	12.883	7.72	9.54	9.314	0
4.0	13.074	1.653	12.880	7.72	9.62	9.311	0
4.5	13.082	1.653	12.875	7.72	9.69	9.306	0
5.0	13.092	1.652	12.862	7.72	9.65	9.294	0
5.5	13.103	1.650	12.846	7.72	9.76	9.280	0
6.0	13.110	1.649	12.837	7.72	9.95	9.272	0
6.5	13.112	1.649	12.836	7.72	10.26	9.271	0
7.0	13.115	1.649	12.833	7.72	10.01	9.268	0
7.5	13.113	1.650	12.838	7.72	9.97	9.273	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F3-1 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.747	1.760	13.906	7.69	9.46	10.152	0
1.0	12.748	1.759	13.900	7.69	9.67	10.147	0
1.5	12.749	1.758	13.894	7.69	9.86	10.143	0
2.0	12.752	1.757	13.880	7.69	10.06	10.131	0
2.5	12.754	1.757	13.876	7.68	10.18	10.128	0
3.0	12.754	1.757	13.878	7.68	10.02	10.129	0
3.5	12.750	1.757	13.886	7.68	9.80	10.136	0
4.0	12.741	1.760	13.914	7.69	9.66	10.159	0
4.5	12.739	1.761	13.923	7.69	9.97	10.166	0
5.0	12.738	1.762	13.925	7.69	10.05	10.168	0
5.5	12.738	1.762	13.925	7.69	10.23	10.168	0
6.0	12.738	1.762	13.925	7.69	10.39	10.168	0
6.5	12.739	1.761	13.918	7.69	10.50	10.162	0
7.0	12.742	1.760	13.911	7.69	10.69	10.157	0
7.5	12.738	1.762	13.925	7.69	10.78	10.168	0
8.0	12.738	1.762	13.927	7.69	10.53	10.169	0
8.5	12.738	1.762	13.928	7.70	10.33	10.171	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F3-2 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.976	1.698	13.295	7.62	9.12	9.646	0
1.0	12.964	1.704	13.348	7.64	9.26	9.689	0
1.5	12.948	1.713	13.434	7.63	9.38	9.757	0
2.0	12.916	1.722	13.519	7.63	9.40	9.828	0
2.5	12.888	1.730	13.602	7.65	9.42	9.896	0
3.0	12.854	1.736	13.666	7.65	9.48	9.950	0
3.5	12.825	1.743	13.737	7.66	9.52	10.010	0
4.0	12.789	1.751	13.815	7.65	9.52	10.076	0
4.5	12.775	1.753	13.835	7.65	9.45	10.093	0
5.0	12.769	1.753	13.842	7.66	9.46	10.100	0
5.5	12.769	1.753	13.840	7.66	9.41	10.098	0
6.0	12.767	1.753	13.841	7.66	9.42	10.099	0
6.5	12.770	1.753	13.836	7.66	9.36	10.095	0
7.0	12.772	1.753	13.836	7.66	9.41	10.094	0
7.5	12.755	1.753	13.846	7.66	9.38	10.104	0
8.0	12.742	1.753	13.852	7.66	9.88	10.111	0
8.5	12.741	1.753	13.850	7.66	9.50	10.109	0
9.0	12.738	1.752	13.843	7.66	9.15	10.105	0
9.5	12.733	1.751	13.839	7.66	9.23	10.103	0
10.0	12.729	1.751	13.837	7.67	9.32	10.102	0
10.5	12.728	1.752	13.841	7.66	9.43	10.105	0
11.0	12.726	1.752	13.846	7.67	9.89	10.109	0
11.5	12.726	1.752	13.846	7.67	9.89	10.109	0
12.0	12.728	1.752	13.842	7.67	9.80	10.105	0
12.5	12.724	1.750	13.832	7.67	9.84	10.099	0
13.0	12.723	1.751	13.836	7.67	10.13	10.102	0
13.5	12.725	1.751	13.836	7.67	9.89	10.101	0
14.0	12.725	1.751	13.837	7.67	10.13	10.102	0
14.5	12.719	1.749	13.824	7.67	10.12	10.093	0
15.0	12.712	1.747	13.808	7.67	9.99	10.082	0
15.5	12.703	1.745	13.795	7.67	9.83	10.074	0
16.0	12.690	1.743	13.778	7.67	9.90	10.062	0
16.5	12.690	1.743	13.779	7.68	9.93	10.063	0
17.0	12.698	1.745	13.791	7.68	9.79	10.071	0
17.5	12.705	1.745	13.794	7.68	9.97	10.072	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F3-3 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.957	1.679	13.142	7.63	8.77	9.531	0
1.0	12.945	1.679	13.150	7.63	8.87	9.539	0
1.5	12.944	1.680	13.158	7.64	8.96	9.545	0
2.0	12.938	1.682	13.177	7.64	9.04	9.561	0
2.5	12.930	1.685	13.198	7.64	9.06	9.578	0
3.0	12.928	1.686	13.208	7.64	9.03	9.586	0
3.5	12.919	1.689	13.241	7.64	9.04	9.613	0
4.0	12.902	1.694	13.289	7.64	9.06	9.653	0
4.5	12.887	1.700	13.345	7.64	9.10	9.698	0
5.0	12.847	1.710	13.441	7.63	9.11	9.778	0
5.5	12.767	1.725	13.602	7.63	9.09	9.915	0
6.0	12.686	1.736	13.723	7.63	9.10	10.021	0
6.5	12.654	1.740	13.769	7.63	9.13	10.061	0
7.0	12.649	1.741	13.781	7.63	9.12	10.071	0
7.5	12.643	1.742	13.791	7.63	9.12	10.079	0
8.0	12.639	1.743	13.804	7.63	9.13	10.090	0
8.5	12.613	1.748	13.857	7.63	9.16	10.135	0
9.0	12.592	1.751	13.888	7.63	9.25	10.162	0
9.5	12.596	1.750	13.876	7.63	9.29	10.152	0
10.0	12.602	1.748	13.857	7.63	9.33	10.137	0
10.5	12.595	1.751	13.887	7.63	9.08	10.161	0
11.0	12.586	1.753	13.902	7.63	9.04	10.174	0
11.5	12.584	1.753	13.904	7.63	9.18	10.176	0
12.0	12.584	1.753	13.909	7.63	9.28	10.180	0
12.5	12.583	1.754	13.912	7.63	9.33	10.182	0
13.0	12.582	1.754	13.913	7.63	9.28	10.183	0
13.5	12.583	1.753	13.910	7.64	9.37	10.181	0
14.0	12.584	1.753	13.909	7.64	9.32	10.179	0
14.5	12.582	1.753	13.911	7.64	9.51	10.181	0
15.0	12.582	1.753	13.911	7.64	9.73	10.181	0
15.5	12.583	1.753	13.910	7.64	9.93	10.180	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: F3-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	12.683	1.767	13.996	7.39	9.24	10.231	0
1.0	12.593	1.776	14.105	7.39	9.23	10.329	0
1.5	12.553	1.777	14.130	7.41	9.14	10.355	0
2.0	12.545	1.781	14.165	7.48	9.03	10.382	0
2.5	12.526	1.789	14.245	7.51	8.89	10.447	0
3.0	12.501	1.799	14.337	7.51	8.82	10.522	0
3.5	12.490	1.806	14.404	7.56	8.85	10.575	0
4.0	12.481	1.808	14.425	7.56	8.82	10.593	0
4.5	12.468	1.811	14.451	7.57	8.80	10.615	0
5.0	12.461	1.812	14.462	7.57	8.78	10.625	0
5.5	12.461	1.812	14.464	7.57	8.79	10.626	0
6.0	12.458	1.813	14.476	7.57	8.83	10.636	0
6.5	12.450	1.816	14.500	7.58	8.89	10.655	0
7.0	12.439	1.820	14.542	7.58	8.96	10.690	0
7.5	12.433	1.819	14.539	7.58	9.00	10.688	0
8.0	12.439	1.815	14.498	7.58	8.98	10.656	0
8.5	12.453	1.813	14.478	7.58	8.91	10.638	0
9.0	12.457	1.813	14.477	7.58	8.87	10.637	0
9.5	12.457	1.814	14.479	7.58	8.82	10.639	0
10.0	12.457	1.814	14.486	7.58	8.79	10.644	0
10.5	12.454	1.814	14.487	7.58	8.83	10.645	0
11.0	12.457	1.813	14.470	7.58	8.80	10.631	0
11.5	12.462	1.811	14.454	7.58	8.78	10.619	0
12.0	12.466	1.811	14.454	7.58	8.74	10.618	0
12.5	12.464	1.813	14.470	7.58	8.67	10.630	0
13.0	12.459	1.815	14.493	7.59	8.70	10.649	0
13.5	12.457	1.816	14.501	7.58	8.69	10.656	0
14.0	12.457	1.817	14.510	7.59	8.75	10.663	0
14.5	12.454	1.820	14.537	7.59	8.78	10.684	0
15.0	12.446	1.825	14.584	7.59	8.84	10.721	0
15.5	12.431	1.833	14.660	7.59	8.91	10.782	0
16.0	12.404	1.840	14.731	7.59	8.91	10.841	0
16.5	12.397	1.841	14.736	7.59	8.88	10.846	0
17.0	12.401	1.840	14.733	7.58	8.86	10.843	0
17.5	12.407	1.840	14.726	7.59	8.87	10.837	0
18.0	12.405	1.841	14.733	7.59	8.87	10.842	0
18.5	12.393	1.844	14.767	7.59	8.91	10.870	0
19.0	12.372	1.849	14.820	7.59	8.98	10.915	0
19.5	12.363	1.850	14.832	7.58	9.04	10.925	0
20.0	12.362	1.850	14.832	7.59	9.12	10.925	0
20.5	12.362	1.850	14.831	7.59	9.17	10.925	0
21.0	12.362	1.850	14.830	7.58	9.24	10.924	0
21.5	12.362	1.850	14.830	7.59	9.32	10.923	0
22.0	12.362	1.850	14.829	7.58	9.34	10.923	0
22.5	12.362	1.850	14.828	7.59	9.22	10.922	0
23.0	12.362	1.850	14.829	7.59	9.27	10.923	0
23.5	12.362	1.850	14.832	7.59	9.41	10.925	0
24.0	12.362	1.851	14.837	7.59	9.35	10.929	0
24.5	12.362	1.851	14.842	7.59	9.29	10.933	0
25.0	12.362	1.852	14.845	7.59	9.27	10.935	0
25.5	12.363	1.852	14.847	7.59	9.13	10.936	0

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Station: F3-4 **Date: 6/27/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
26.0	12.364	1.852	14.848	7.59	9.13	10.937	0
26.5	12.365	1.852	14.849	7.59	9.17	10.938	0
27.0	12.366	1.852	14.850	7.59	9.28	10.939	0
27.5	12.368	1.853	14.852	7.59	9.38	10.940	0
28.0	12.368	1.853	14.854	7.59	9.34	10.941	0
28.5	12.367	1.853	14.856	7.59	9.12	10.943	0
29.0	12.367	1.853	14.857	7.59	9.19	10.944	0
29.5	12.368	1.853	14.858	7.59	9.13	10.944	0
30.0	12.369	1.853	14.857	7.59	9.13	10.944	0
30.5	12.369	1.853	14.856	7.59	9.25	10.943	0
31.0	12.368	1.853	14.854	7.59	9.32	10.942	0
31.5	12.367	1.853	14.854	7.59	9.44	10.941	0
32.0	12.367	1.853	14.856	7.59	9.54	10.942	0
32.5	12.368	1.853	14.856	7.59	9.58	10.942	0
33.0	12.367	1.853	14.853	7.59	9.55	10.940	0
33.5	12.366	1.853	14.852	7.59	9.45	10.940	0
34.0	12.365	1.853	14.849	7.59	9.55	10.938	0
34.5	12.364	1.852	14.847	7.59	9.69	10.936	0
35.0	12.364	1.852	14.846	7.59	9.76	10.936	0
35.5	12.363	1.852	14.847	7.59	9.79	10.936	0
36.0	12.363	1.852	14.848	7.59	9.88	10.937	0
36.5	12.364	1.852	14.847	7.59	10.09	10.936	0
37.0	12.364	1.852	14.847	7.59	10.33	10.937	0
37.5	12.366	1.852	14.846	7.59	10.05	10.935	0
38.0	12.364	1.851	14.838	7.59	9.98	10.930	0
38.5	12.362	1.851	14.836	7.60	9.89	10.928	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C1-1 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.776	1.507	11.443	7.57	8.18	8.094	0
1.0	13.708	1.506	11.450	7.58	8.12	8.111	0
1.5	13.664	1.504	11.447	7.57	8.11	8.116	0
2.0	13.526	1.498	11.437	7.59	8.19	8.130	0
2.5	13.229	1.487	11.433	7.60	8.30	8.173	0
3.0	13.093	1.479	11.409	7.60	8.31	8.176	0
3.5	13.046	1.477	11.405	7.62	8.38	8.180	0
4.0	13.000	1.476	11.412	7.62	8.45	8.192	0
4.5	12.981	1.481	11.456	7.63	8.50	8.229	0
5.0	12.982	1.488	11.518	7.63	8.53	8.277	0
5.5	12.994	1.496	11.583	7.63	8.50	8.325	0
6.0	13.019	1.510	11.695	7.65	8.47	8.407	0
6.5	13.062	1.525	11.807	7.64	8.48	8.487	0
7.0	13.098	1.538	11.905	7.65	8.41	8.557	0
7.5	13.121	1.548	11.977	7.65	8.40	8.609	0
8.0	13.154	1.559	12.058	7.65	8.43	8.666	0
8.5	13.189	1.571	12.150	7.64	8.46	8.731	0
9.0	13.182	1.572	12.164	7.64	8.50	8.743	0
9.5	13.160	1.571	12.159	7.64	8.43	8.743	0
10.0	13.141	1.567	12.133	7.64	8.38	8.726	0
10.5	13.147	1.566	12.122	7.64	8.39	8.717	0
11.0	13.133	1.563	12.104	7.64	8.38	8.704	0
11.5	13.104	1.562	12.105	7.63	8.40	8.709	0
12.0	13.079	1.556	12.056	7.63	8.48	8.676	0
12.5	13.051	1.547	11.988	7.63	8.54	8.628	0
13.0	13.014	1.532	11.875	7.64	8.51	8.547	0
13.5	12.968	1.513	11.729	7.64	8.53	8.441	0
14.0	12.939	1.499	11.626	7.64	8.58	8.367	0
14.5	12.909	1.487	11.529	7.64	8.65	8.296	0
15.0	12.888	1.479	11.471	7.64	8.69	8.255	0
15.5	12.882	1.476	11.448	7.64	8.78	8.238	0
16.0	12.878	1.473	11.424	7.64	8.83	8.220	0
16.5	12.875	1.470	11.402	7.65	8.80	8.203	0
17.0	12.875	1.478	11.465	7.65	8.75	8.252	0
17.5	12.897	1.487	11.533	7.64	8.59	8.301	0
18.0	12.908	1.478	11.457	7.64	8.57	8.241	0
18.5	12.886	1.470	11.391	7.64	8.58	8.193	0
19.0	12.868	1.458	11.295	7.65	8.58	8.122	0
19.5	12.857	1.453	11.257	7.65	8.60	8.094	0
20.0	12.856	1.452	11.253	7.65	8.64	8.091	0
20.5	12.852	1.452	11.252	7.65	8.69	8.092	0
21.0	12.850	1.454	11.273	7.65	8.81	8.108	0
21.5	12.853	1.461	11.326	7.65	8.88	8.148	0
22.0	12.859	1.468	11.386	7.65	8.84	8.194	0
22.5	12.855	1.464	11.355	7.65	8.81	8.170	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C1-2 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.476	1.489	11.380	7.58	8.35	8.094	0
1.0	13.046	1.476	11.402	7.59	8.43	8.178	0
1.5	12.984	1.481	11.460	7.59	8.43	8.231	0
2.0	12.990	1.495	11.578	7.60	8.50	8.321	0
2.5	13.008	1.512	11.711	7.62	8.41	8.421	0
3.0	13.042	1.519	11.762	7.62	8.32	8.455	0
3.5	13.050	1.521	11.772	7.62	8.31	8.462	0
4.0	13.057	1.520	11.768	7.62	8.30	8.458	0
4.5	13.038	1.511	11.691	7.62	8.32	8.401	0
5.0	12.987	1.500	11.618	7.63	8.37	8.353	0
5.5	12.945	1.499	11.619	7.62	8.44	8.360	0
6.0	12.973	1.488	11.519	7.62	8.54	8.279	0
6.5	12.936	1.475	11.426	7.63	8.55	8.213	0
7.0	12.895	1.470	11.396	7.63	8.42	8.196	0
7.5	12.896	1.460	11.306	7.63	8.40	8.127	0
8.0	12.872	1.454	11.262	7.63	8.45	8.096	0
8.5	12.870	1.453	11.255	7.63	8.50	8.091	0
9.0	12.869	1.452	11.248	7.63	8.50	8.086	0
9.5	12.867	1.449	11.224	7.63	8.45	8.068	0
10.0	12.864	1.447	11.206	7.63	8.40	8.055	0
10.5	12.862	1.444	11.180	7.63	8.42	8.034	0
11.0	12.857	1.440	11.152	7.63	8.45	8.014	0
11.5	12.855	1.435	11.113	7.63	8.45	7.984	0
12.0	12.846	1.426	11.039	7.63	8.46	7.928	0
12.5	12.839	1.423	11.013	7.64	8.52	7.909	0
13.0	12.837	1.423	11.011	7.64	8.66	7.908	0
13.5	12.836	1.423	11.014	7.64	8.75	7.910	0
14.0	12.836	1.424	11.022	7.64	8.76	7.917	0
14.5	12.836	1.427	11.047	7.64	8.58	7.936	0
15.0	12.837	1.430	11.076	7.64	8.62	7.958	0
15.5	12.839	1.434	11.108	7.64	8.73	7.982	0
16.0	12.841	1.438	11.142	7.64	8.81	8.009	0
16.5	12.842	1.437	11.127	7.65	8.83	7.997	0
17.0	12.840	1.435	11.115	7.65	9.04	7.988	0
17.5	12.840	1.440	11.156	7.65	9.00	8.019	0
18.0	12.846	1.454	11.269	7.65	8.92	8.105	0
18.5	12.853	1.459	11.311	7.65	9.16	8.137	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C1-4 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.692	1.512	11.508	7.68	8.39	8.158	0
1.0	13.676	1.511	11.506	7.68	8.43	8.159	0
1.5	13.677	1.511	11.499	7.68	8.36	8.153	0
2.0	13.682	1.511	11.499	7.68	8.43	8.153	0
2.5	13.683	1.511	11.502	7.68	8.50	8.155	0
3.0	13.690	1.512	11.507	7.68	8.62	8.157	0
3.5	13.692	1.514	11.522	7.68	8.76	8.168	0
4.0	13.706	1.516	11.535	7.68	8.86	8.176	0
4.5	13.711	1.516	11.536	7.68	9.00	8.176	0
5.0	13.711	1.516	11.534	7.68	9.15	8.175	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-1 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.293	1.488	11.423	7.63	8.89	8.156	0
1.0	13.289	1.489	11.433	7.62	8.89	8.164	0
1.5	13.289	1.489	11.432	7.63	9.06	8.163	0
2.0	13.290	1.490	11.442	7.62	9.17	8.170	0
2.5	13.290	1.491	11.453	7.63	9.13	8.179	0
3.0	13.290	1.494	11.472	7.62	9.04	8.194	0
3.5	13.290	1.494	11.473	7.62	9.08	8.194	0
4.0	13.293	1.491	11.452	7.63	9.21	8.178	0
4.5	13.297	1.489	11.436	7.63	9.40	8.165	0
5.0	13.297	1.488	11.426	7.63	9.48	8.157	0
5.5	13.298	1.492	11.457	7.63	9.39	8.181	0
6.0	13.296	1.496	11.490	7.63	9.59	8.206	0
6.5	13.285	1.503	11.548	7.63	9.74	8.253	0
7.0	13.267	1.506	11.581	7.63	9.79	8.281	0
7.5	13.264	1.504	11.563	7.63	9.94	8.268	0
8.0	13.229	1.511	11.634	7.62	10.03	8.328	0
8.5	13.220	1.512	11.650	7.62	9.81	8.341	0
9.0	13.211	1.512	11.652	7.63	9.89	8.344	0
9.5	13.218	1.513	11.654	7.63	9.80	8.345	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-2a **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.221	1.496	11.510	7.63	8.78	8.234	0
1.0	13.206	1.496	11.518	7.63	8.82	8.242	0
1.5	13.197	1.496	11.523	7.63	8.89	8.247	0
2.0	13.179	1.497	11.535	7.63	8.95	8.260	0
2.5	13.185	1.497	11.534	7.63	8.99	8.258	0
3.0	13.194	1.497	11.530	7.63	9.10	8.253	0
3.5	13.186	1.498	11.538	7.63	9.13	8.261	0
4.0	13.166	1.499	11.555	7.63	8.95	8.277	0
4.5	13.163	1.499	11.558	7.63	8.91	8.280	0
5.0	13.161	1.500	11.566	7.63	8.98	8.287	0
5.5	13.146	1.503	11.596	7.63	9.07	8.312	0
6.0	13.089	1.510	11.669	7.62	9.13	8.377	0
6.5	13.007	1.519	11.770	7.62	9.29	8.467	0
7.0	12.939	1.524	11.834	7.62	9.34	8.526	0
7.5	12.917	1.525	11.850	7.62	9.44	8.543	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-2b **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.299	1.492	11.454	7.63	9.00	8.178	0
1.0	13.272	1.492	11.465	7.63	8.98	8.191	0
1.5	13.266	1.493	11.471	7.63	8.96	8.197	0
2.0	13.260	1.493	11.477	7.63	9.03	8.203	0
2.5	13.238	1.494	11.494	7.63	8.85	8.219	0
3.0	13.215	1.496	11.511	7.63	8.82	8.236	0
3.5	13.189	1.497	11.535	7.63	8.91	8.258	0
4.0	13.174	1.499	11.550	7.63	9.01	8.272	0
4.5	13.155	1.501	11.576	7.63	9.00	8.295	0
5.0	13.125	1.505	11.617	7.63	9.07	8.331	0
5.5	13.080	1.511	11.683	7.62	9.20	8.389	0
6.0	13.026	1.519	11.768	7.62	9.22	8.462	0
6.5	12.944	1.525	11.839	7.62	9.47	8.530	0
7.0	12.912	1.526	11.859	7.62	9.52	8.550	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-2c **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.314	1.489	11.427	7.64	8.71	8.156	0
1.0	13.304	1.490	11.439	7.64	8.70	8.166	0
1.5	13.292	1.491	11.452	7.64	8.72	8.178	0
2.0	13.278	1.492	11.464	7.63	8.71	8.189	0
2.5	13.264	1.493	11.479	7.63	8.65	8.203	0
3.0	13.243	1.495	11.499	7.63	8.66	8.222	0
3.5	13.200	1.498	11.534	7.63	8.71	8.255	0
4.0	13.165	1.500	11.565	7.63	8.74	8.284	0
4.5	13.147	1.501	11.580	7.63	8.80	8.299	0
5.0	13.143	1.504	11.600	7.63	8.93	8.315	0
5.5	13.120	1.508	11.643	7.63	9.11	8.352	0
6.0	13.069	1.516	11.728	7.63	9.36	8.425	0
6.5	12.939	1.526	11.847	7.62	9.47	8.537	0
7.0	12.896	1.526	11.862	7.62	9.49	8.555	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-3 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.362	1.481	11.348	7.63	8.72	8.087	0
1.0	13.322	1.483	11.377	7.63	8.70	8.116	0
1.5	13.302	1.489	11.434	7.63	8.57	8.163	0
2.0	13.281	1.495	11.489	7.63	8.35	8.208	0
2.5	13.244	1.499	11.531	7.62	8.49	8.246	0
3.0	13.230	1.501	11.554	7.62	8.62	8.266	0
3.5	13.213	1.502	11.569	7.62	8.69	8.280	0
4.0	13.188	1.510	11.637	7.62	8.70	8.337	0
4.5	13.151	1.519	11.723	7.62	8.70	8.409	0
5.0	13.134	1.524	11.777	7.62	8.56	8.453	0
5.5	13.118	1.531	11.840	7.62	8.53	8.504	0
6.0	13.094	1.536	11.887	7.62	8.72	8.544	0
6.5	13.023	1.537	11.916	7.61	8.94	8.577	0
7.0	12.930	1.536	11.938	7.61	9.07	8.608	0
7.5	12.896	1.534	11.930	7.61	9.01	8.607	0
8.0	12.883	1.533	11.931	7.61	9.10	8.610	0
8.5	12.881	1.532	11.923	7.61	9.27	8.604	0
9.0	12.883	1.529	11.897	7.61	9.33	8.584	0
9.5	12.890	1.526	11.866	7.61	9.34	8.558	0
10.0	12.895	1.525	11.856	7.62	9.51	8.550	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-4 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.254	1.544	11.903	7.50	8.63	8.531	0
1.0	13.241	1.544	11.912	7.49	8.78	8.540	0
1.5	13.223	1.546	11.932	7.48	8.86	8.558	0
2.0	13.208	1.547	11.948	7.45	8.94	8.573	0
2.5	13.199	1.548	11.957	7.49	9.01	8.581	0
3.0	13.189	1.549	11.970	7.48	8.99	8.593	0
3.5	13.169	1.551	11.988	7.51	8.95	8.610	0
4.0	13.155	1.552	11.999	7.56	8.90	8.620	0
4.5	13.137	1.553	12.013	7.56	8.91	8.634	0
5.0	13.123	1.553	12.024	7.58	8.88	8.645	0
5.5	13.117	1.553	12.026	7.58	8.95	8.647	0
6.0	13.098	1.553	12.027	7.58	9.02	8.651	0
6.5	13.061	1.552	12.033	7.58	9.11	8.661	0
7.0	13.047	1.552	12.037	7.58	9.21	8.666	0
7.5	13.029	1.552	12.041	7.58	9.31	8.672	0
8.0	13.002	1.552	12.048	7.58	9.44	8.681	0
8.5	13.000	1.552	12.049	7.58	9.51	8.683	0
9.0	12.991	1.552	12.052	7.58	9.64	8.686	0
9.5	12.982	1.551	12.051	7.58	9.69	8.687	0
10.0	13.027	1.553	12.046	7.58	9.73	8.676	0
10.5	13.026	1.552	12.046	7.58	9.63	8.676	0
11.0	12.998	1.551	12.041	7.59	9.50	8.677	0
11.5	12.981	1.549	12.032	7.58	9.62	8.672	0
12.0	12.976	1.548	12.028	7.58	9.61	8.670	0
12.5	12.986	1.550	12.036	7.58	9.66	8.675	0
13.0	12.985	1.548	12.023	7.58	9.72	8.665	0
13.5	12.959	1.547	12.023	7.58	9.71	8.669	0
14.0	12.958	1.545	12.006	7.58	9.75	8.656	0
14.5	12.958	1.544	11.999	7.59	9.81	8.650	0
15.0	12.956	1.545	12.006	7.58	9.91	8.656	0
15.5	12.956	1.546	12.009	7.58	9.95	8.658	0
16.0	12.956	1.546	12.011	7.58	9.81	8.660	0
16.5	12.955	1.546	12.016	7.58	9.87	8.664	0
17.0	12.955	1.547	12.017	7.58	9.76	8.665	0
17.5	12.961	1.545	12.006	7.58	9.86	8.655	0
18.0	12.962	1.545	11.998	7.58	9.68	8.650	0
18.5	12.974	1.540	11.959	7.59	9.86	8.617	0
19.0	12.985	1.536	11.922	7.59	9.80	8.587	0
19.5	12.980	1.538	11.938	7.59	9.92	8.600	0
20.0	12.973	1.542	11.972	7.58	10.17	8.628	0
20.5	12.985	1.536	11.915	7.59	10.21	8.582	0
21.0	12.987	1.531	11.874	7.59	10.19	8.550	0
21.5	12.990	1.529	11.855	7.58	10.20	8.535	0
22.0	12.990	1.531	11.878	7.59	10.19	8.553	0
22.5	12.989	1.532	11.883	7.59	10.18	8.557	0
23.0	12.990	1.529	11.854	7.58	10.20	8.534	0
23.5	12.989	1.527	11.841	7.58	10.21	8.525	0
24.0	12.989	1.526	11.832	7.58	10.23	8.517	0
24.5	12.988	1.524	11.814	7.59	10.23	8.504	0
25.0	12.989	1.524	11.813	7.59	10.21	8.503	0
25.5	12.992	1.528	11.845	7.58	10.20	8.527	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C2-4 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
26.0	12.991	1.526	11.835	7.58	10.23	8.519	0
26.5	12.988	1.522	11.799	7.59	10.23	8.492	0
27.0	12.988	1.520	11.780	7.58	10.22	8.478	0
27.5	12.987	1.519	11.771	7.58	10.23	8.471	0
28.0	12.986	1.519	11.771	7.58	10.23	8.471	0
28.5	12.987	1.519	11.773	7.58	10.22	8.472	0
29.0	12.986	1.517	11.761	7.58	10.21	8.463	0
29.5	12.985	1.514	11.730	7.58	10.20	8.439	0
30.0	12.986	1.518	11.766	7.58	10.22	8.467	0
30.5	12.986	1.518	11.764	7.58	10.26	8.466	0
31.0	12.987	1.518	11.763	7.58	10.24	8.465	0
31.5	12.989	1.522	11.801	7.58	10.23	8.493	0
32.0	12.991	1.523	11.810	7.58	10.20	8.500	0
32.5	12.992	1.527	11.843	7.58	10.21	8.525	0
33.0	12.992	1.531	11.874	7.58	10.21	8.549	0
33.5	12.990	1.531	11.876	7.58	10.22	8.551	0
34.0	12.989	1.524	11.813	7.58	10.22	8.503	0
34.5	12.987	1.515	11.741	7.58	10.22	8.447	0
35.0	12.986	1.511	11.707	7.58	10.20	8.422	0
35.5	12.986	1.512	11.715	7.58	10.16	8.428	0
36.0	12.984	1.509	11.688	7.58	10.14	8.408	0
36.5	12.981	1.502	11.628	7.58	10.10	8.362	0
37.0	12.981	1.500	11.616	7.58	10.07	8.353	0
37.5	12.980	1.500	11.612	7.58	10.09	8.349	0
38.0	12.980	1.499	11.605	7.58	10.05	8.344	0
38.5	12.980	1.499	11.603	7.58	10.08	8.343	0
39.0	12.980	1.499	11.607	7.58	9.95	8.345	0
39.5	12.979	1.497	11.586	7.58	9.68	8.330	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C3-1 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.208	1.648	12.797	7.49	9.21	9.226	0
1.0	13.225	1.649	12.792	7.53	9.21	9.220	0
1.5	13.231	1.649	12.791	7.56	9.39	9.218	0
2.0	13.227	1.649	12.792	7.56	9.43	9.219	0
2.5	13.228	1.649	12.794	7.57	9.38	9.221	0
3.0	13.234	1.649	12.796	7.57	9.18	9.221	0
3.5	13.235	1.650	12.798	7.58	8.94	9.222	0
4.0	13.236	1.650	12.801	7.58	8.93	9.225	0
4.5	13.254	1.651	12.799	7.58	9.03	9.220	0
5.0	13.263	1.651	12.798	7.58	9.20	9.218	0
5.5	13.265	1.651	12.798	7.58	9.15	9.218	0
6.0	13.267	1.651	12.796	7.58	9.22	9.216	0
6.5	13.266	1.651	12.795	7.58	9.36	9.215	0
7.0	13.265	1.650	12.794	7.58	9.29	9.215	0
7.5	13.261	1.650	12.793	7.58	9.49	9.214	0
8.0	13.260	1.650	12.792	7.58	9.62	9.214	0
8.5	13.258	1.650	12.788	7.58	9.59	9.211	0
9.0	13.258	1.650	12.788	7.58	9.51	9.211	0
9.5	13.257	1.649	12.785	7.58	9.31	9.209	0
10.0	13.258	1.649	12.784	7.58	9.26	9.208	0
10.5	13.255	1.648	12.779	7.58	9.43	9.205	0
11.0	13.219	1.648	12.791	7.58	9.61	9.220	0
11.5	13.210	1.648	12.791	7.58	9.96	9.221	0
12.0	13.217	1.649	12.796	7.58	9.70	9.223	0
12.5	13.245	1.647	12.769	7.58	9.95	9.199	0
13.0	13.161	1.650	12.825	7.57	10.24	9.255	0
13.5	13.098	1.653	12.867	7.57	10.31	9.297	0
14.0	13.092	1.653	12.871	7.57	10.37	9.302	0
14.5	13.093	1.653	12.875	7.58	10.32	9.304	0
15.0	13.083	1.653	12.876	7.58	10.40	9.307	0
15.5	13.102	1.652	12.862	7.58	10.36	9.292	0
16.0	13.119	1.652	12.857	7.58	10.37	9.286	0
16.5	13.064	1.652	12.875	7.58	10.35	9.309	0
17.0	13.056	1.652	12.875	7.58	10.38	9.310	0
17.5	13.058	1.652	12.876	7.58	10.43	9.310	0
18.0	13.055	1.652	12.876	7.58	10.25	9.311	0
18.5	13.057	1.652	12.878	7.58	10.16	9.312	0
19.0	13.062	1.653	12.885	7.58	10.36	9.316	0
19.5	13.061	1.654	12.888	7.58	10.30	9.319	0
20.0	13.063	1.654	12.888	7.58	10.24	9.319	0
20.5	13.060	1.653	12.885	7.58	10.10	9.317	0
21.0	13.054	1.653	12.882	7.58	10.24	9.315	0
21.5	13.049	1.652	12.881	7.59	10.46	9.316	0
22.0	13.051	1.652	12.879	7.59	10.34	9.314	0
22.5	13.049	1.652	12.874	7.59	10.43	9.310	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C3-2 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.177	1.649	12.816	7.57	8.66	9.246	0
1.0	13.184	1.649	12.813	7.57	8.69	9.242	0
1.5	13.194	1.649	12.808	7.58	8.70	9.237	0
2.0	13.205	1.649	12.804	7.58	8.71	9.232	0
2.5	13.212	1.649	12.802	7.58	8.78	9.229	0
3.0	13.218	1.649	12.800	7.58	8.86	9.226	0
3.5	13.225	1.649	12.797	7.58	8.91	9.223	0
4.0	13.233	1.649	12.794	7.58	8.94	9.220	0
4.5	13.237	1.649	12.793	7.58	8.98	9.218	0
5.0	13.239	1.649	12.792	7.58	9.00	9.217	0
5.5	13.241	1.649	12.792	7.58	9.01	9.217	0
6.0	13.243	1.649	12.792	7.58	9.06	9.217	0
6.5	13.238	1.650	12.797	7.58	9.21	9.221	0
7.0	13.222	1.651	12.810	7.58	9.41	9.234	0
7.5	13.197	1.652	12.826	7.58	9.66	9.250	0
8.0	13.176	1.652	12.841	7.58	9.94	9.265	0
8.5	13.154	1.653	12.853	7.58	10.02	9.278	0
9.0	13.142	1.654	12.862	7.58	10.07	9.286	0
9.5	13.122	1.654	12.872	7.58	10.15	9.297	0
10.0	13.101	1.655	12.884	7.58	10.20	9.310	0
10.5	13.090	1.654	12.883	7.58	10.20	9.311	0
11.0	13.087	1.654	12.884	7.58	10.20	9.312	0
11.5	13.088	1.654	12.882	7.58	10.21	9.311	0
12.0	13.085	1.654	12.884	7.58	10.26	9.312	0
12.5	13.078	1.654	12.883	7.58	10.26	9.312	0
13.0	13.077	1.653	12.882	7.58	10.26	9.312	0
13.5	13.069	1.651	12.864	7.58	10.25	9.299	0
14.0	13.065	1.640	12.773	7.58	10.09	9.230	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C3-3 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.157	1.652	12.842	7.53	8.67	9.269	0
1.0	13.160	1.652	12.842	7.54	8.58	9.269	0
1.5	13.157	1.652	12.845	7.54	8.65	9.271	0
2.0	13.156	1.652	12.846	7.54	8.70	9.272	0
2.5	13.156	1.652	12.847	7.55	8.73	9.272	0
3.0	13.151	1.652	12.849	7.55	8.78	9.275	0
3.5	13.147	1.652	12.851	7.55	8.80	9.277	0
4.0	13.150	1.652	12.850	7.56	8.80	9.276	0
4.5	13.153	1.652	12.848	7.55	8.79	9.274	0
5.0	13.154	1.652	12.848	7.56	8.85	9.274	0
5.5	13.151	1.652	12.850	7.56	8.96	9.276	0
6.0	13.151	1.652	12.850	7.56	9.01	9.276	0
6.5	13.151	1.652	12.849	7.57	9.00	9.275	0
7.0	13.155	1.652	12.847	7.56	8.95	9.273	0
7.5	13.157	1.652	12.846	7.57	9.02	9.271	0
8.0	13.158	1.652	12.845	7.57	9.12	9.271	0
8.5	13.162	1.652	12.843	7.57	9.21	9.269	0
9.0	13.167	1.652	12.841	7.57	9.19	9.266	0
9.5	13.169	1.652	12.841	7.57	9.18	9.266	0
10.0	13.162	1.652	12.845	7.57	9.31	9.270	0
10.5	13.154	1.652	12.848	7.57	9.23	9.273	0
11.0	13.158	1.652	12.843	7.57	9.14	9.270	0
11.5	13.167	1.652	12.841	7.57	9.34	9.266	0
12.0	13.160	1.652	12.843	7.57	9.57	9.269	0
12.5	13.125	1.651	12.848	7.57	9.78	9.278	0
13.0	13.088	1.650	12.849	7.57	9.87	9.285	0
13.5	13.090	1.651	12.853	7.57	9.89	9.287	0
14.0	13.108	1.652	12.856	7.57	10.04	9.287	0
14.5	13.115	1.652	12.855	7.57	9.81	9.285	0
15.0	13.108	1.652	12.856	7.57	9.81	9.287	0
15.5	13.094	1.651	12.858	7.57	9.88	9.291	0
16.0	13.102	1.652	12.861	7.57	9.84	9.292	0
16.5	13.124	1.653	12.859	7.57	9.85	9.287	0
17.0	13.114	1.652	12.860	7.57	9.56	9.289	0
17.5	13.099	1.651	12.855	7.57	9.93	9.288	0
18.0	13.079	1.650	12.852	7.57	10.01	9.289	0
18.5	13.092	1.652	12.860	7.57	9.97	9.293	0
19.0	13.095	1.652	12.863	7.57	10.21	9.294	0
19.5	13.088	1.652	12.863	7.57	10.24	9.295	0
20.0	13.085	1.652	12.863	7.57	10.21	9.296	0
20.5	13.085	1.652	12.862	7.57	10.20	9.296	0
21.0	13.085	1.651	12.861	7.57	10.23	9.295	0
21.5	13.082	1.651	12.862	7.57	10.23	9.296	0
22.0	13.084	1.652	12.861	7.57	10.18	9.295	0
22.5	13.084	1.651	12.860	7.57	10.20	9.294	0
23.0	13.085	1.651	12.859	7.57	10.22	9.293	0
23.5	13.085	1.651	12.860	7.57	10.24	9.293	0
24.0	13.086	1.652	12.861	7.57	10.23	9.294	0
24.5	13.087	1.652	12.862	7.56	10.25	9.295	0
25.0	13.086	1.652	12.864	7.57	10.25	9.297	0
25.5	13.087	1.652	12.867	7.57	10.24	9.299	0

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Station: C3-3 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
26.0	13.086	1.653	12.868	7.57	10.22	9.300	0
26.5	13.084	1.653	12.869	7.56	10.23	9.301	0
27.0	13.084	1.653	12.871	7.56	10.27	9.302	0
27.5	13.082	1.653	12.872	7.57	10.28	9.304	0
28.0	13.080	1.653	12.874	7.57	10.27	9.306	0
28.5	13.075	1.653	12.878	7.56	10.28	9.309	0
29.0	13.069	1.653	12.880	7.56	10.23	9.312	0
29.5	13.063	1.653	12.881	7.57	10.23	9.313	0
30.0	13.054	1.652	12.873	7.57	10.24	9.309	0
30.5	13.050	1.649	12.848	7.57	10.12	9.290	0

Asplund WPCF - 2006 Receiving Water Hydrographic Data

Station: C3-4 **Date: 6/28/2006**

Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
0.5	13.043	1.492	11.536	7.48	9.23	8.281	0
1.0	13.044	1.491	11.523	7.51	9.23	8.271	0
1.5	13.044	1.488	11.502	7.52	9.14	8.255	0
2.0	13.043	1.488	11.503	7.53	9.07	8.256	0
2.5	13.044	1.491	11.522	7.51	9.03	8.271	0
3.0	13.045	1.494	11.550	7.50	9.03	8.292	0
3.5	13.045	1.494	11.553	7.51	9.15	8.294	0
4.0	13.045	1.494	11.549	7.51	9.27	8.291	0
4.5	13.046	1.493	11.538	7.52	9.36	8.282	0
5.0	13.047	1.490	11.517	7.53	9.41	8.266	0
5.5	13.048	1.490	11.515	7.54	9.44	8.264	0
6.0	13.049	1.497	11.574	7.55	9.46	8.310	0
6.5	13.050	1.517	11.739	7.56	9.48	8.437	0
7.0	13.050	1.541	11.942	7.56	9.46	8.592	0
7.5	13.050	1.565	12.143	7.56	9.44	8.747	0
8.0	13.050	1.574	12.224	7.55	9.41	8.810	0
8.5	13.050	1.576	12.239	7.56	9.35	8.821	0
9.0	13.050	1.578	12.258	7.56	9.39	8.836	0
9.5	13.050	1.582	12.285	7.56	9.45	8.857	0
10.0	13.050	1.583	12.294	7.55	9.47	8.863	0
10.5	13.051	1.579	12.265	7.56	9.50	8.841	0
11.0	13.052	1.575	12.224	7.56	9.47	8.809	0
11.5	13.052	1.575	12.225	7.56	9.43	8.810	0
12.0	13.052	1.572	12.201	7.56	9.40	8.792	0
12.5	13.050	1.576	12.237	7.56	9.32	8.820	0
13.0	13.047	1.582	12.286	7.56	9.33	8.858	0
13.5	13.045	1.585	12.312	7.56	9.40	8.878	0
14.0	13.045	1.593	12.377	7.56	9.40	8.929	0
14.5	13.047	1.603	12.468	7.56	9.38	8.998	0
15.0	13.050	1.615	12.565	7.56	9.38	9.072	0
15.5	13.051	1.621	12.619	7.55	9.38	9.114	0
16.0	13.052	1.620	12.610	7.56	9.34	9.106	0
16.5	13.052	1.633	12.713	7.55	9.28	9.186	0
17.0	13.052	1.640	12.777	7.55	9.23	9.235	0
17.5	13.049	1.641	12.783	7.55	9.16	9.241	0
18.0	13.042	1.640	12.782	7.55	9.11	9.241	0
18.5	13.038	1.640	12.781	7.55	9.04	9.241	0
19.0	13.039	1.640	12.783	7.55	9.00	9.242	0
19.5	13.041	1.641	12.784	7.55	8.96	9.242	0
20.0	13.041	1.640	12.779	7.55	8.87	9.238	0
20.5	13.040	1.639	12.770	7.55	8.73	9.232	0
21.0	13.038	1.638	12.766	7.55	8.61	9.229	0
21.5	13.036	1.638	12.761	7.55	8.46	9.225	0
22.0	13.035	1.636	12.743	7.55	8.24	9.211	0
22.5	13.038	1.631	12.704	7.55	7.98	9.181	0
23.0	13.041	1.626	12.663	7.55	7.84	9.149	0
23.5	13.040	1.628	12.678	7.56	7.81	9.160	0
24.0	13.038	1.631	12.699	7.55	7.81	9.177	0
24.5	13.036	1.630	12.698	7.55	7.85	9.177	0
25.0	13.036	1.630	12.696	7.55	7.92	9.176	0
25.5	13.037	1.630	12.692	7.56	7.96	9.172	0

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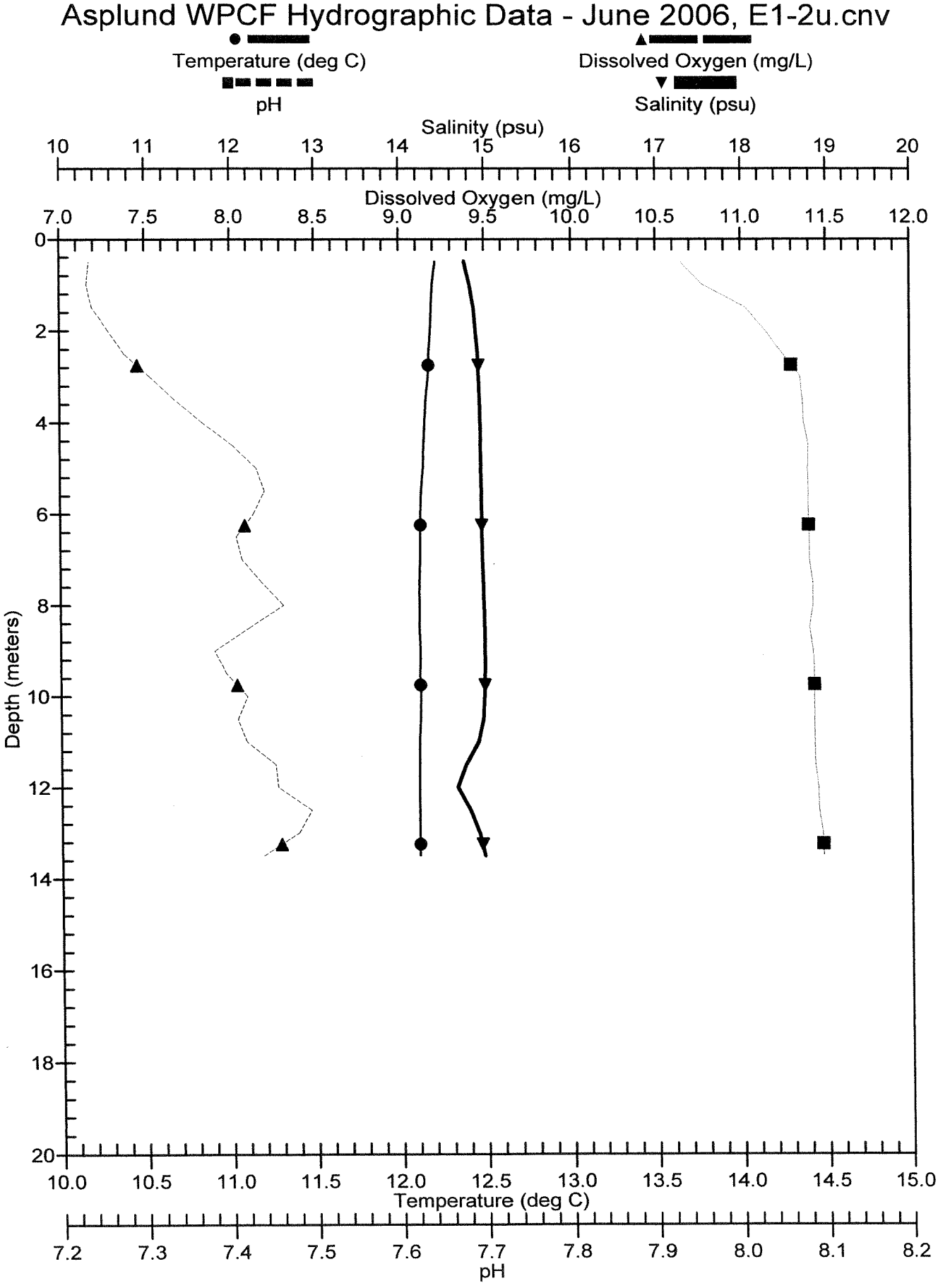
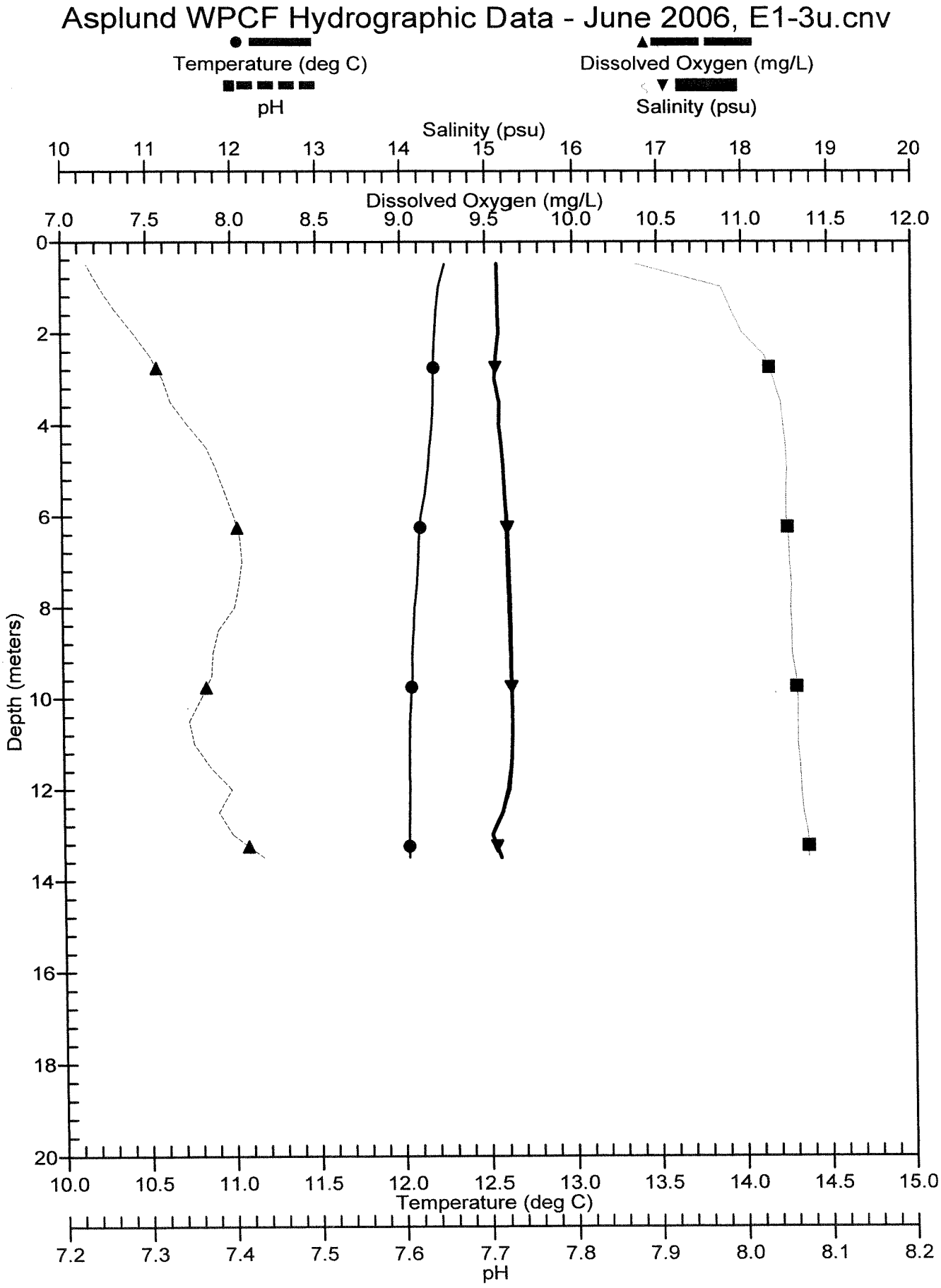
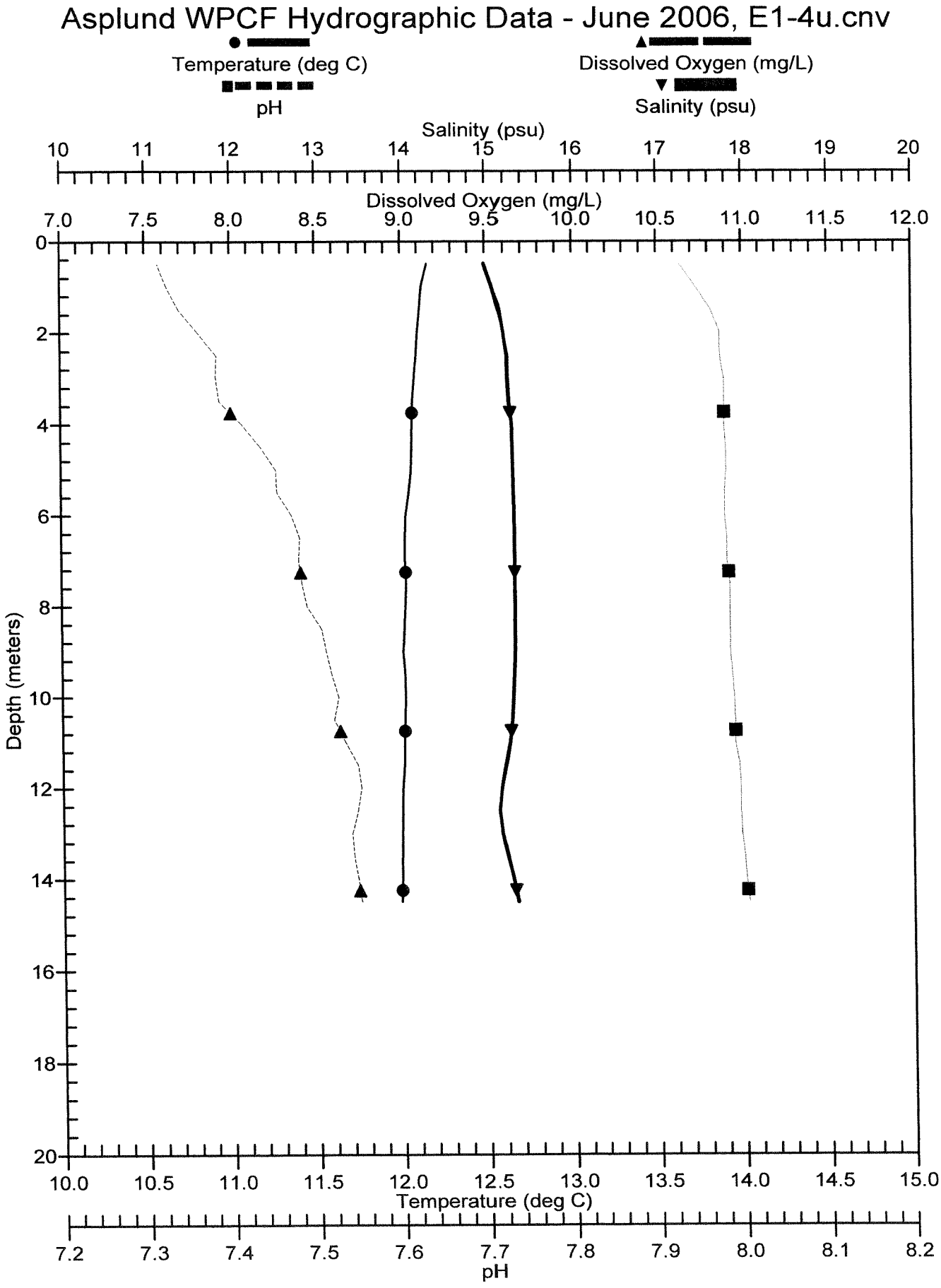
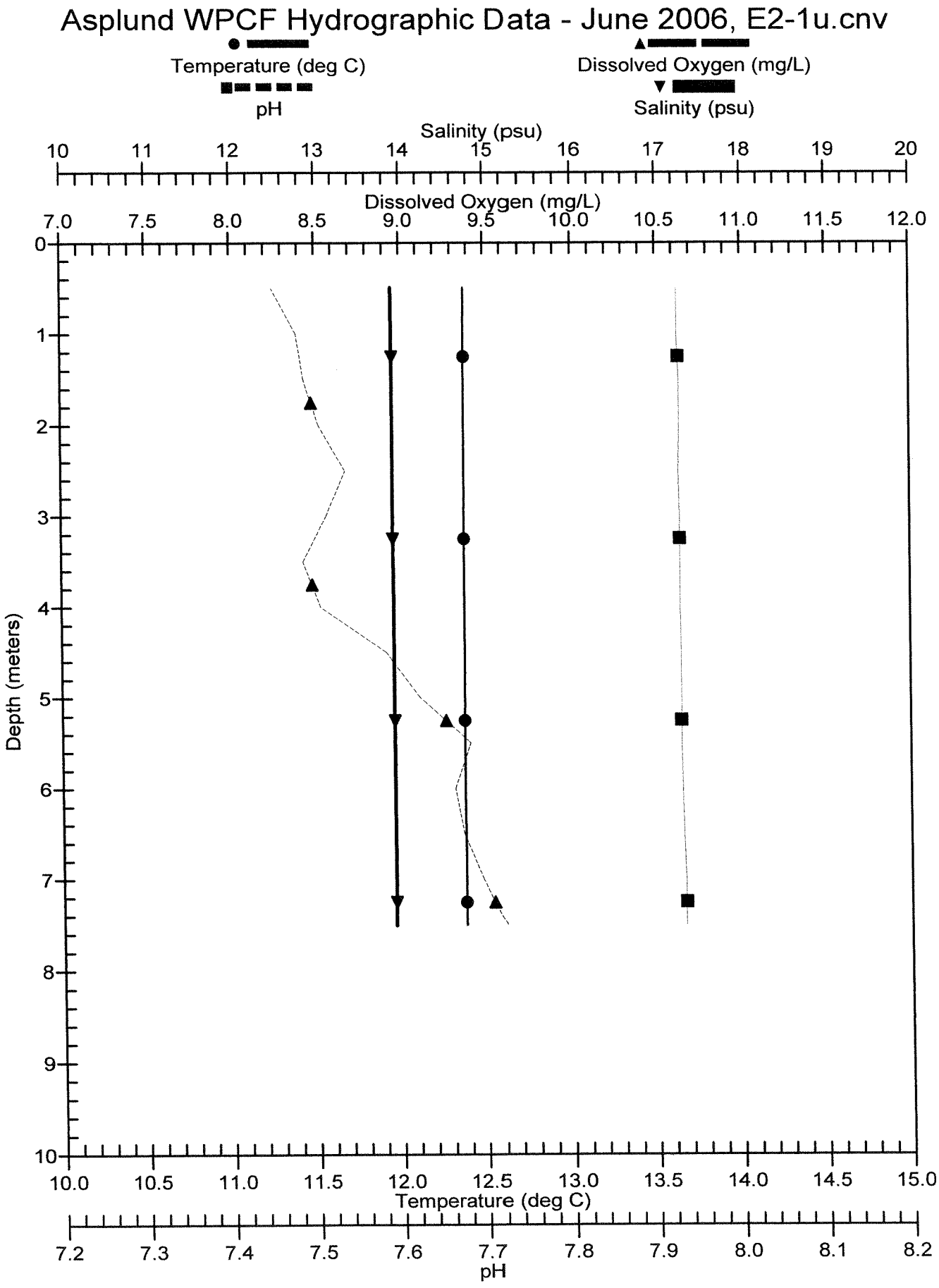
Station: C3-4 **Date: 6/28/2006**

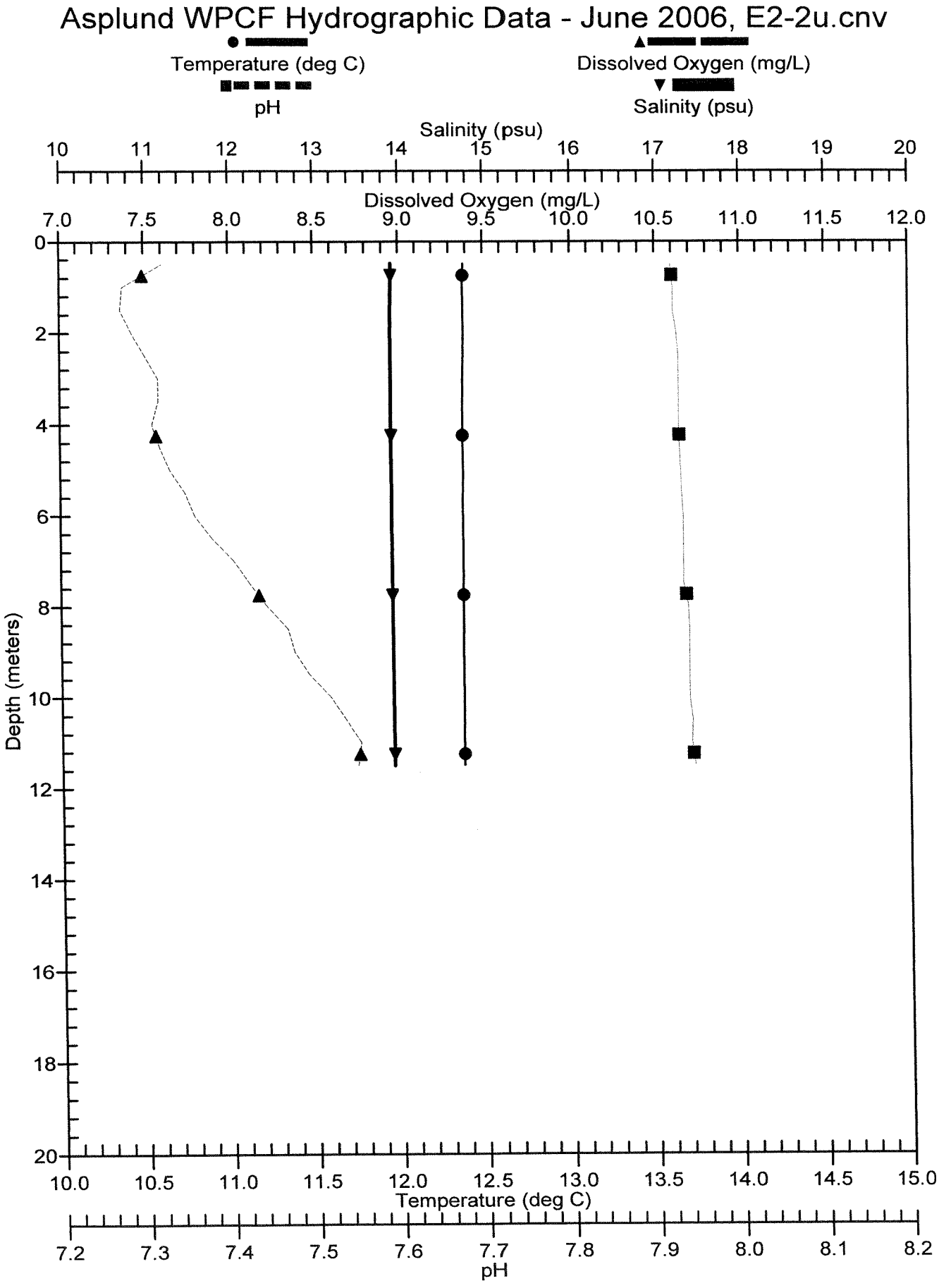
Depth (m)	Temp (deg C)	Cond (S/m)	Salinity (psu)	pH	DO (mg/L)	Sigma-t	Flag
26.0	13.037	1.631	12.700	7.55	8.02	9.178	0
26.5	13.036	1.632	12.710	7.55	8.09	9.186	0
27.0	13.036	1.633	12.716	7.55	8.15	9.191	0
27.5	13.036	1.631	12.701	7.55	8.23	9.179	0
28.0	13.037	1.627	12.666	7.55	8.28	9.152	0
28.5	13.040	1.624	12.643	7.55	8.33	9.134	0
29.0	13.043	1.621	12.617	7.56	8.40	9.113	0
29.5	13.043	1.619	12.599	7.56	8.47	9.099	0
30.0	13.042	1.620	12.610	7.55	8.55	9.108	0
30.5	13.039	1.623	12.632	7.55	8.63	9.125	0
31.0	13.036	1.624	12.645	7.55	8.72	9.136	0
31.5	13.031	1.626	12.663	7.55	8.80	9.150	0
32.0	13.024	1.630	12.697	7.55	8.87	9.178	0
32.5	13.017	1.636	12.748	7.55	8.95	9.218	0
33.0	13.013	1.639	12.778	7.55	9.00	9.242	0
33.5	13.013	1.639	12.780	7.55	9.03	9.243	0
34.0	13.014	1.639	12.780	7.55	9.02	9.244	0
34.5	13.013	1.640	12.782	7.55	9.04	9.245	0
35.0	13.015	1.640	12.782	7.55	9.02	9.245	0
35.5	13.018	1.640	12.782	7.55	8.97	9.244	0
36.0	13.018	1.639	12.779	7.55	8.96	9.242	0
36.5	13.016	1.638	12.767	7.55	8.91	9.233	0
37.0	13.012	1.635	12.741	7.55	8.79	9.213	0
37.5	12.999	1.630	12.705	7.55	8.68	9.188	0
38.0	12.982	1.622	12.646	7.55	8.60	9.145	0
38.5	12.977	1.620	12.629	7.55	8.61	9.133	0
39.0	12.978	1.621	12.633	7.55	8.66	9.136	0
39.5	12.983	1.623	12.653	7.55	8.67	9.150	0
40.0	12.989	1.627	12.679	7.55	8.70	9.169	0
40.5	12.985	1.624	12.658	7.55	8.80	9.154	0
41.0	12.976	1.619	12.618	7.55	8.85	9.124	0
41.5	12.971	1.617	12.601	7.55	8.87	9.112	0
42.0	12.969	1.616	12.598	7.55	8.89	9.110	0
42.5	12.968	1.616	12.593	7.55	8.94	9.106	0
43.0	12.966	1.614	12.580	7.55	8.99	9.097	0
43.5	12.964	1.613	12.573	7.55	9.01	9.092	0
44.0	12.967	1.614	12.579	7.55	9.03	9.096	0
44.5	12.971	1.615	12.586	7.55	9.09	9.101	0
45.0	12.969	1.613	12.572	7.55	9.18	9.090	0
45.5	12.955	1.608	12.532	7.55	9.25	9.061	0
46.0	12.944	1.605	12.506	7.55	9.30	9.043	0
46.5	12.937	1.601	12.478	7.56	9.34	9.023	0
47.0	12.935	1.600	12.467	7.56	9.34	9.015	0
47.5	12.935	1.599	12.464	7.56	9.26	9.013	0
48.0	12.936	1.599	12.463	7.56	9.24	9.011	0
48.5	12.936	1.599	12.465	7.56	9.29	9.013	0
49.0	12.937	1.600	12.466	7.56	8.98	9.014	0
49.5	12.936	1.599	12.465	7.57	9.04	9.013	0

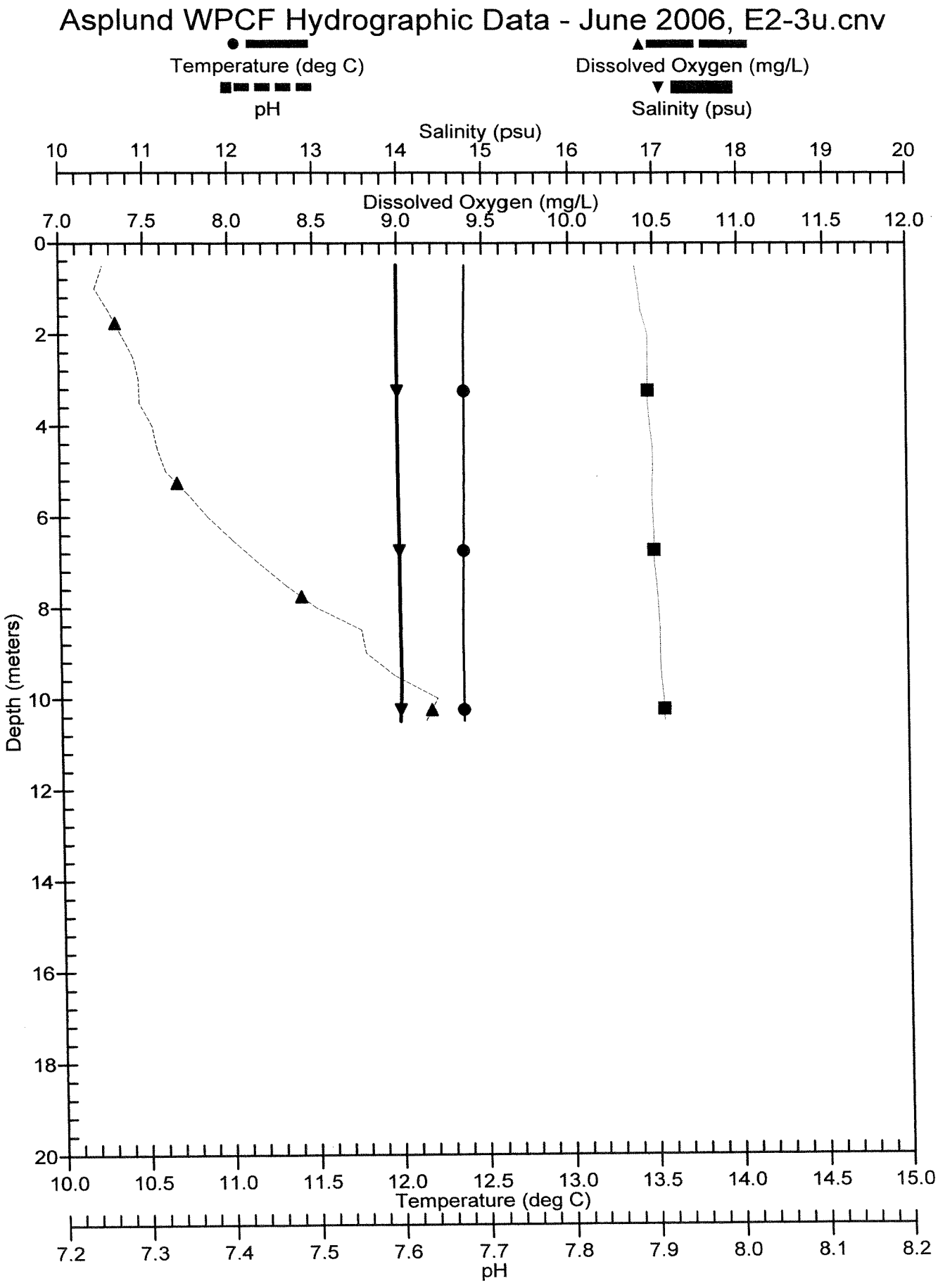

Asplund WPCF Hydrographic Data - June 2006, E1-2u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

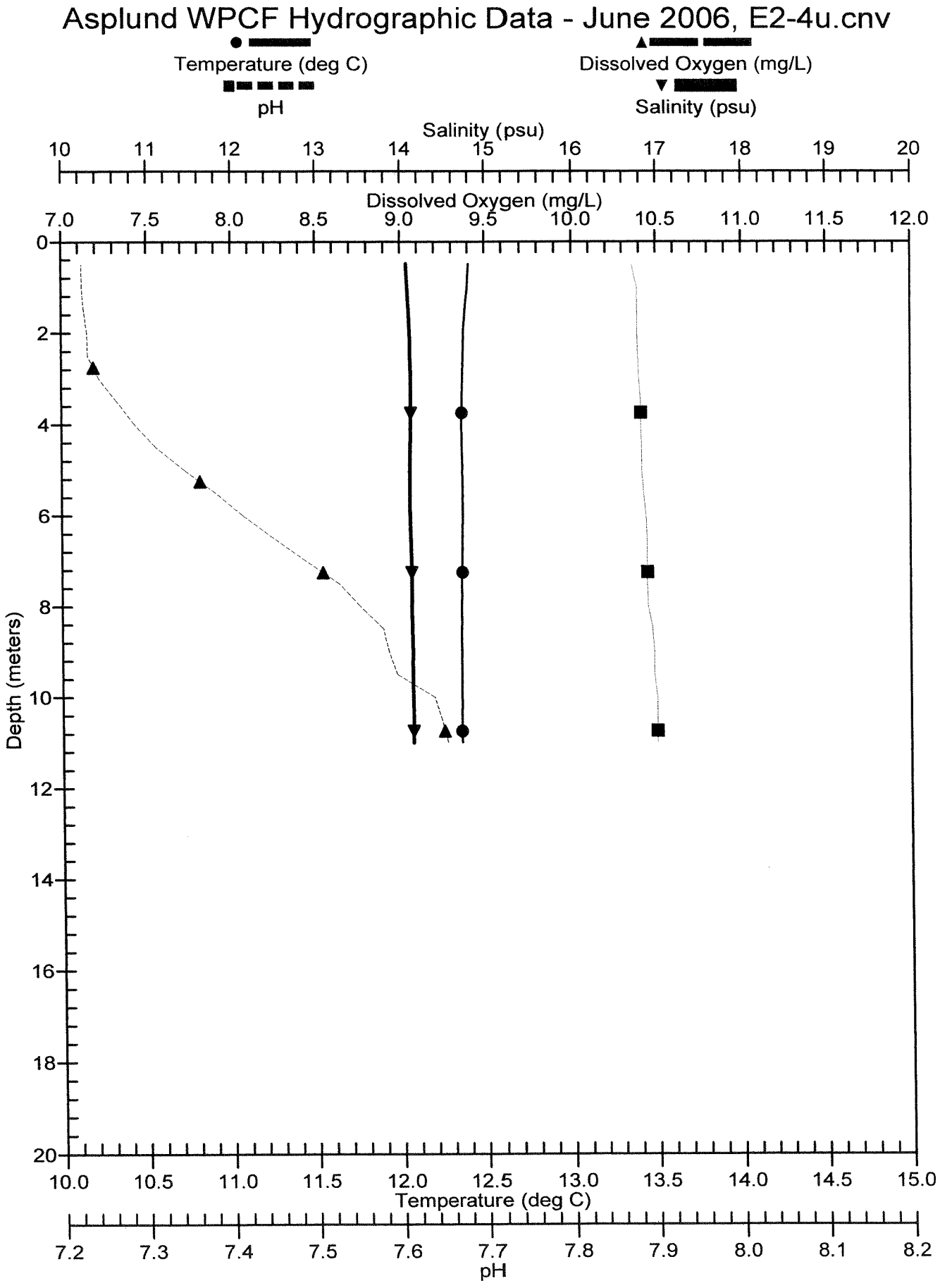

Asplund WPCF Hydrographic Data - June 2006, E1-3u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

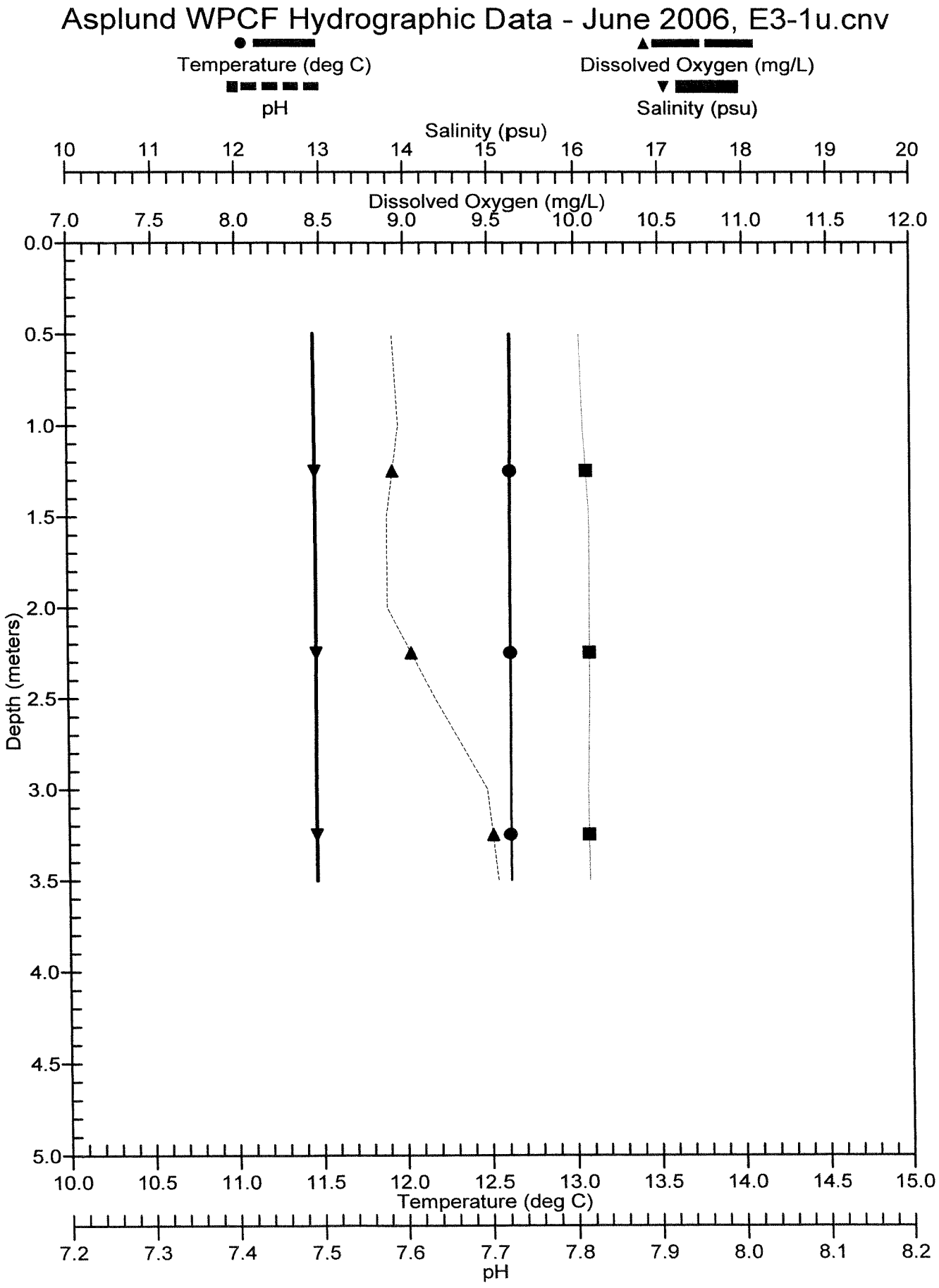

Asplund WPCF Hydrographic Data - June 2006, E1-4u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

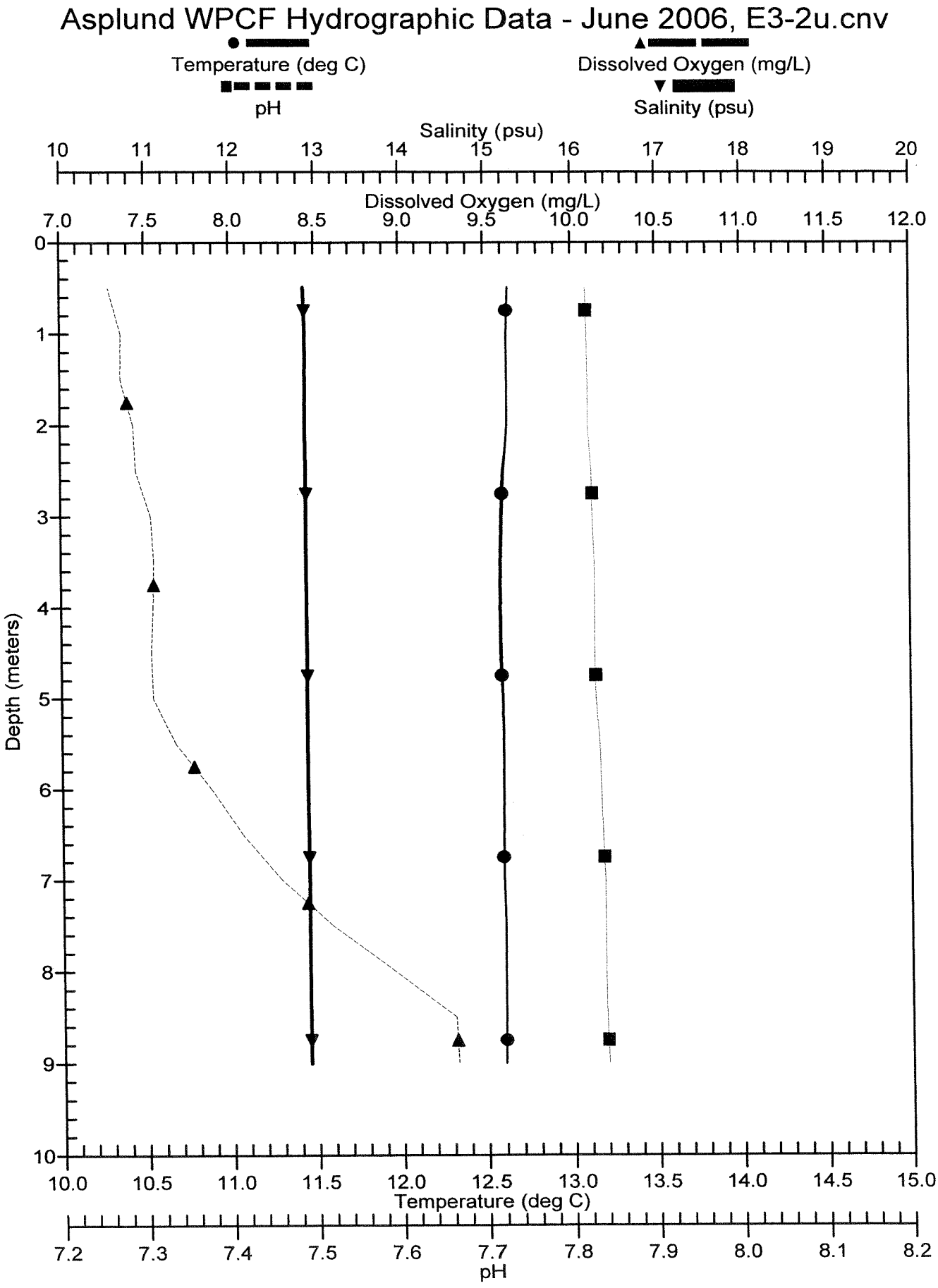

Asplund WPCF Hydrographic Data - June 2006, E2-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

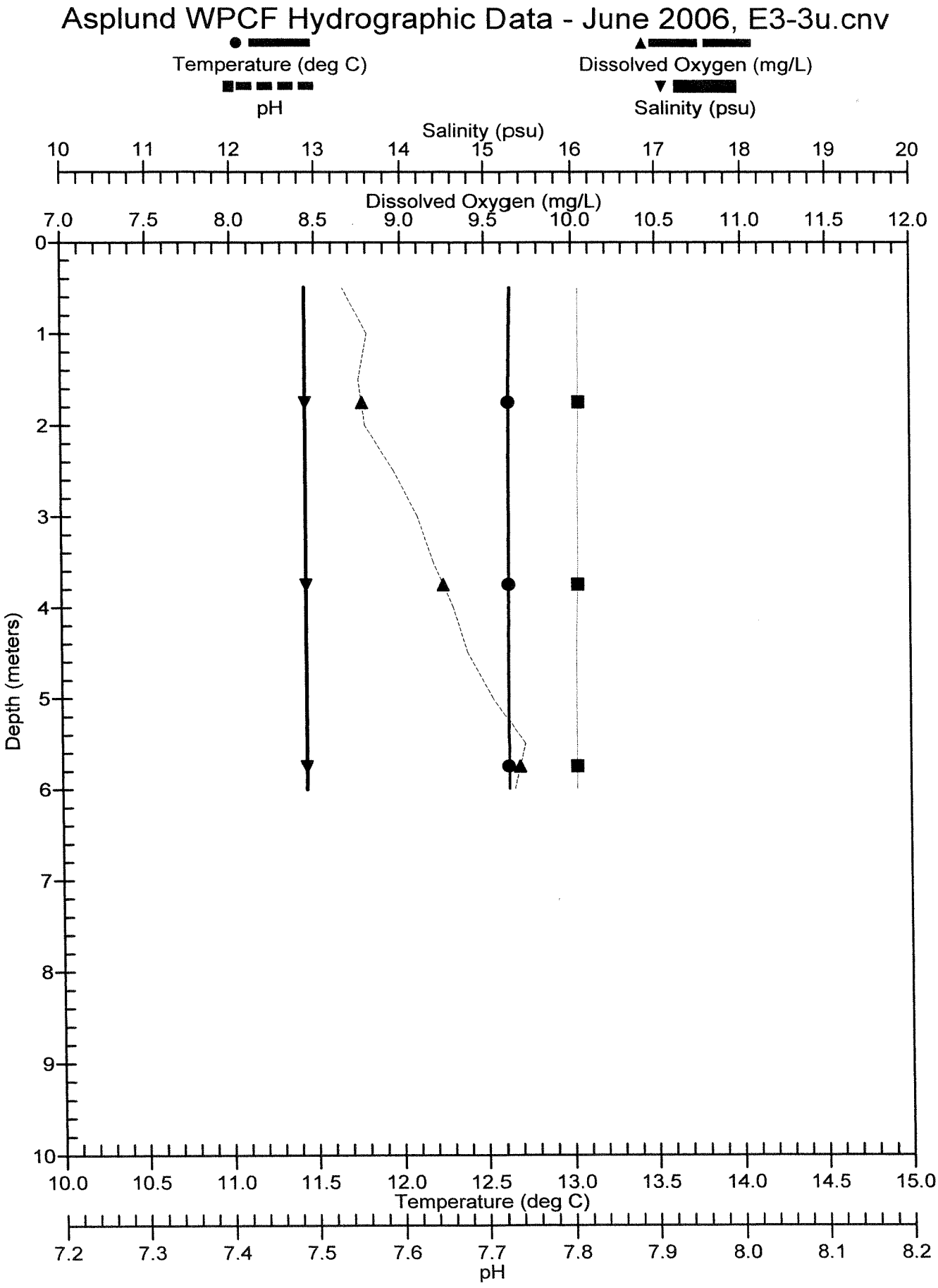

Asplund WPCF Hydrographic Data - June 2006, E2-2u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

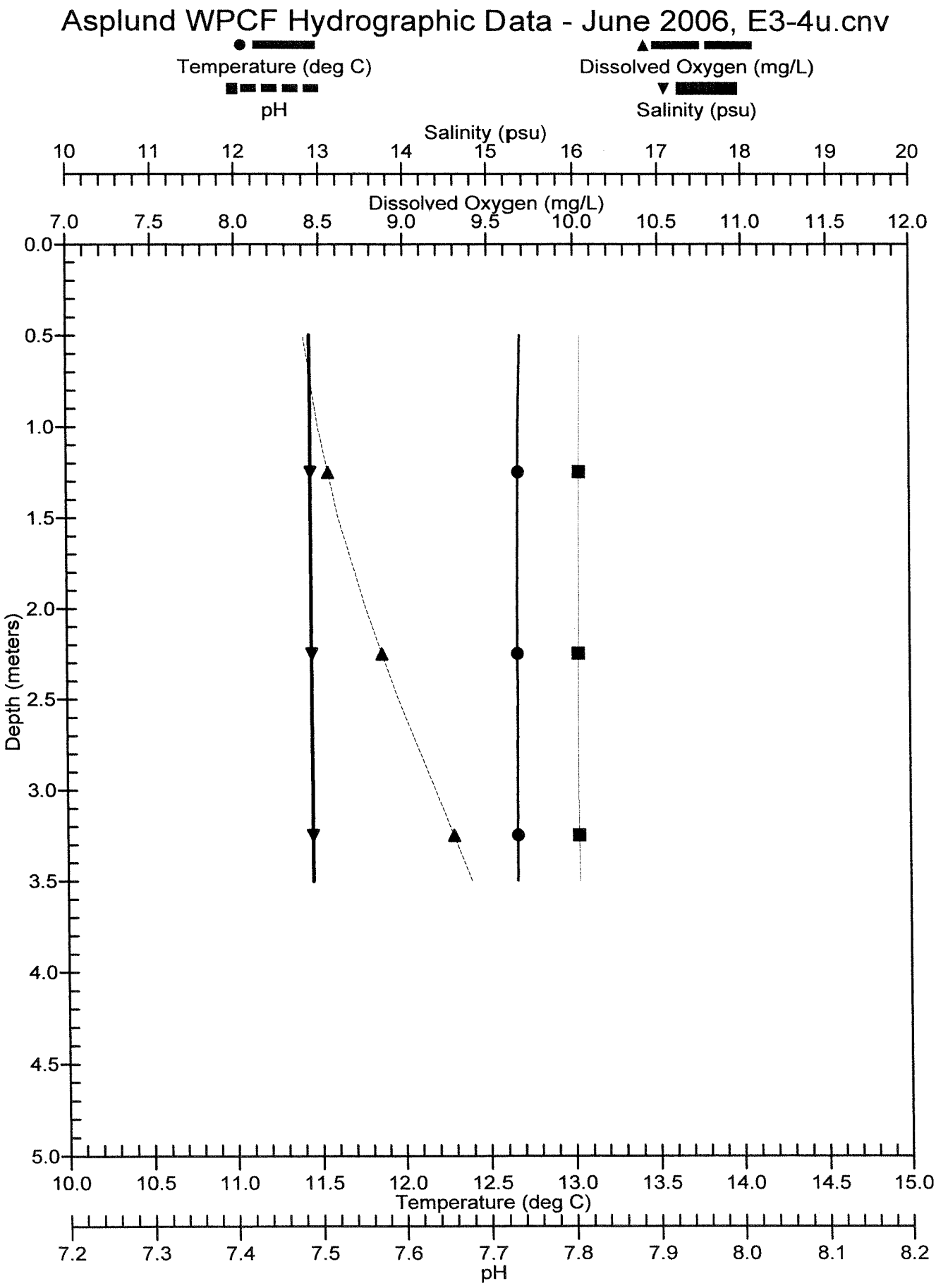

Asplund WPCF Hydrographic Data - June 2006, E2-3u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

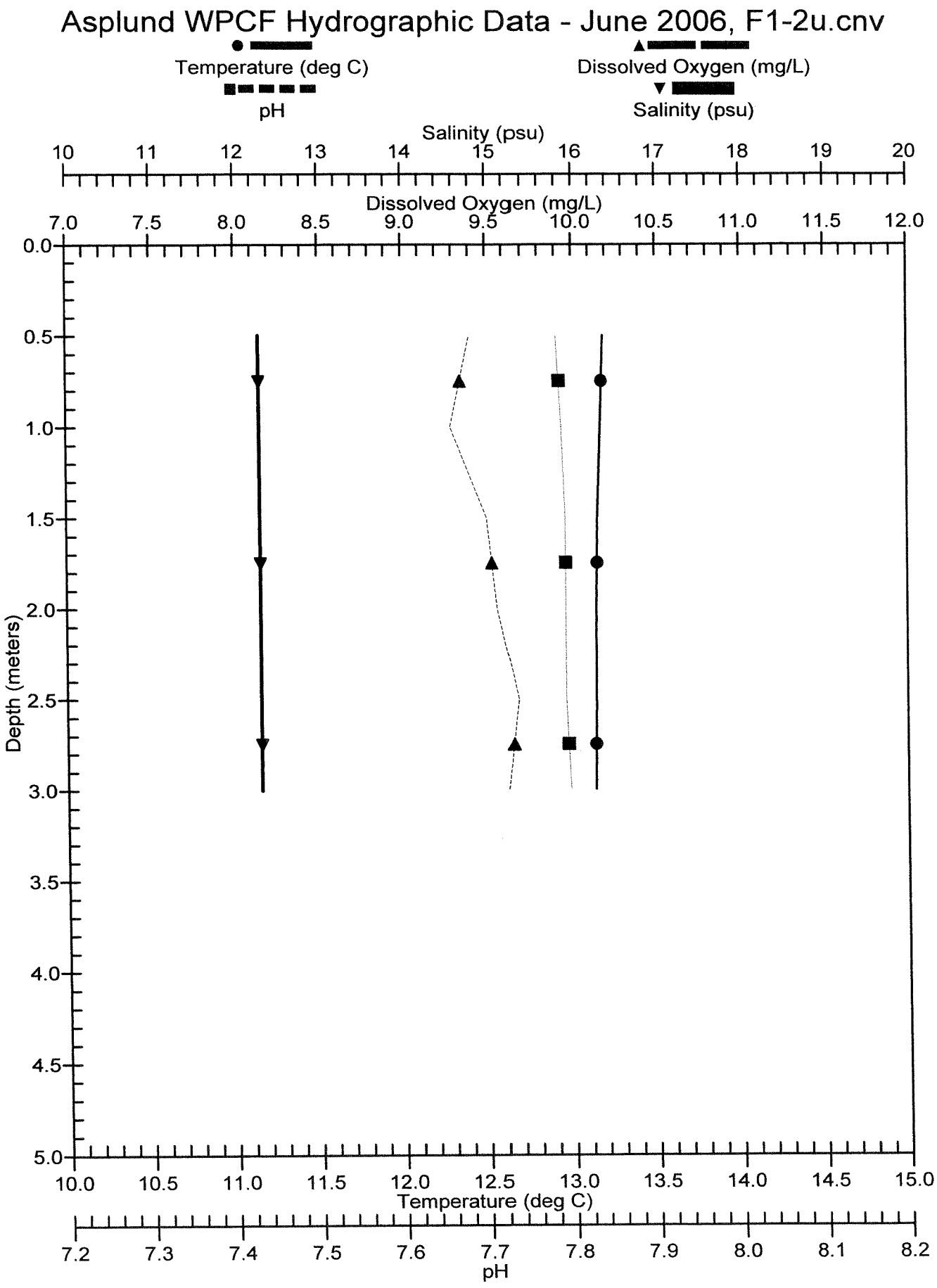

Asplund WPCF Hydrographic Data - June 2006, E2-4u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

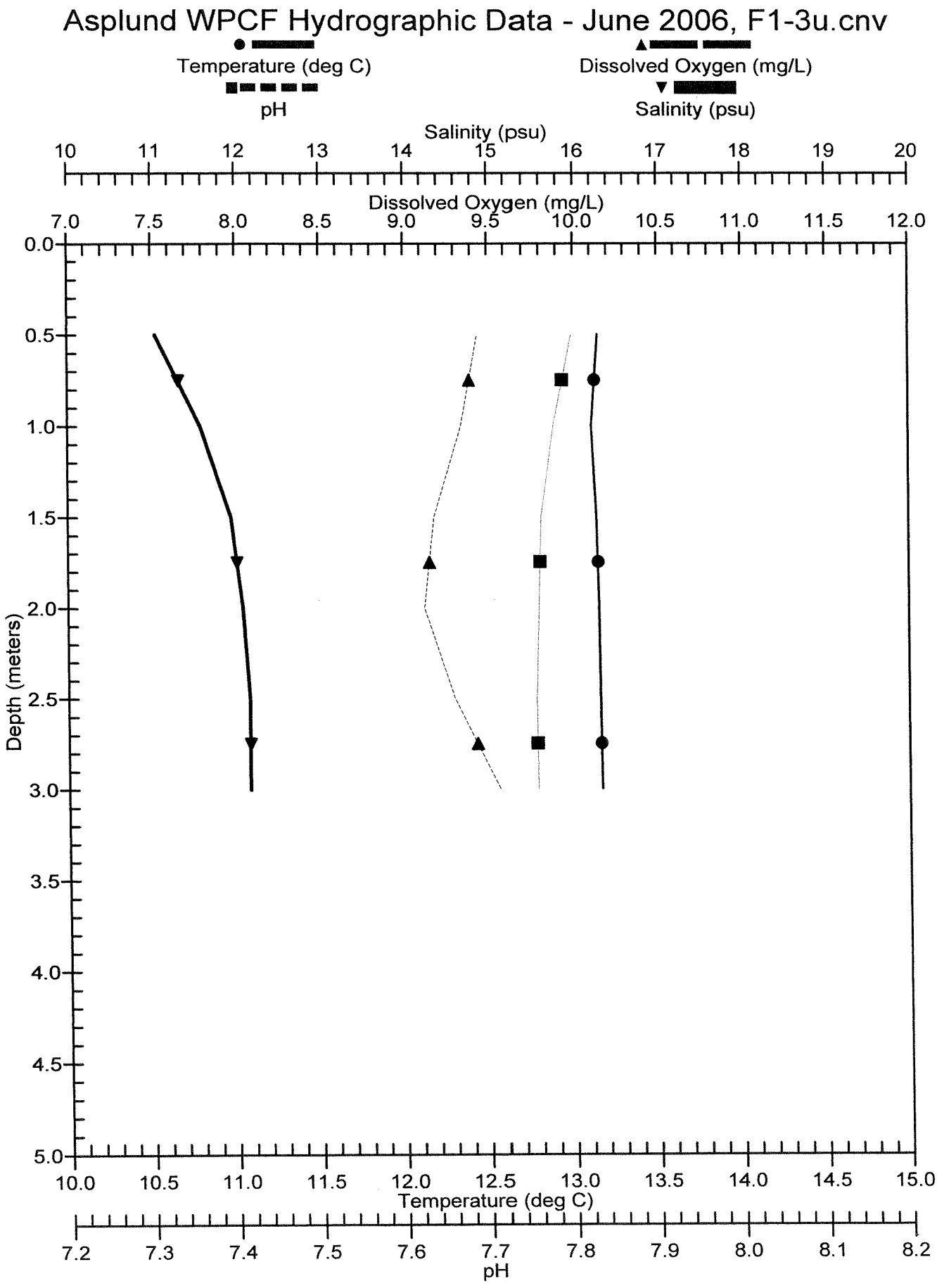

Asplund WPCF Hydrographic Data - June 2006, E3-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

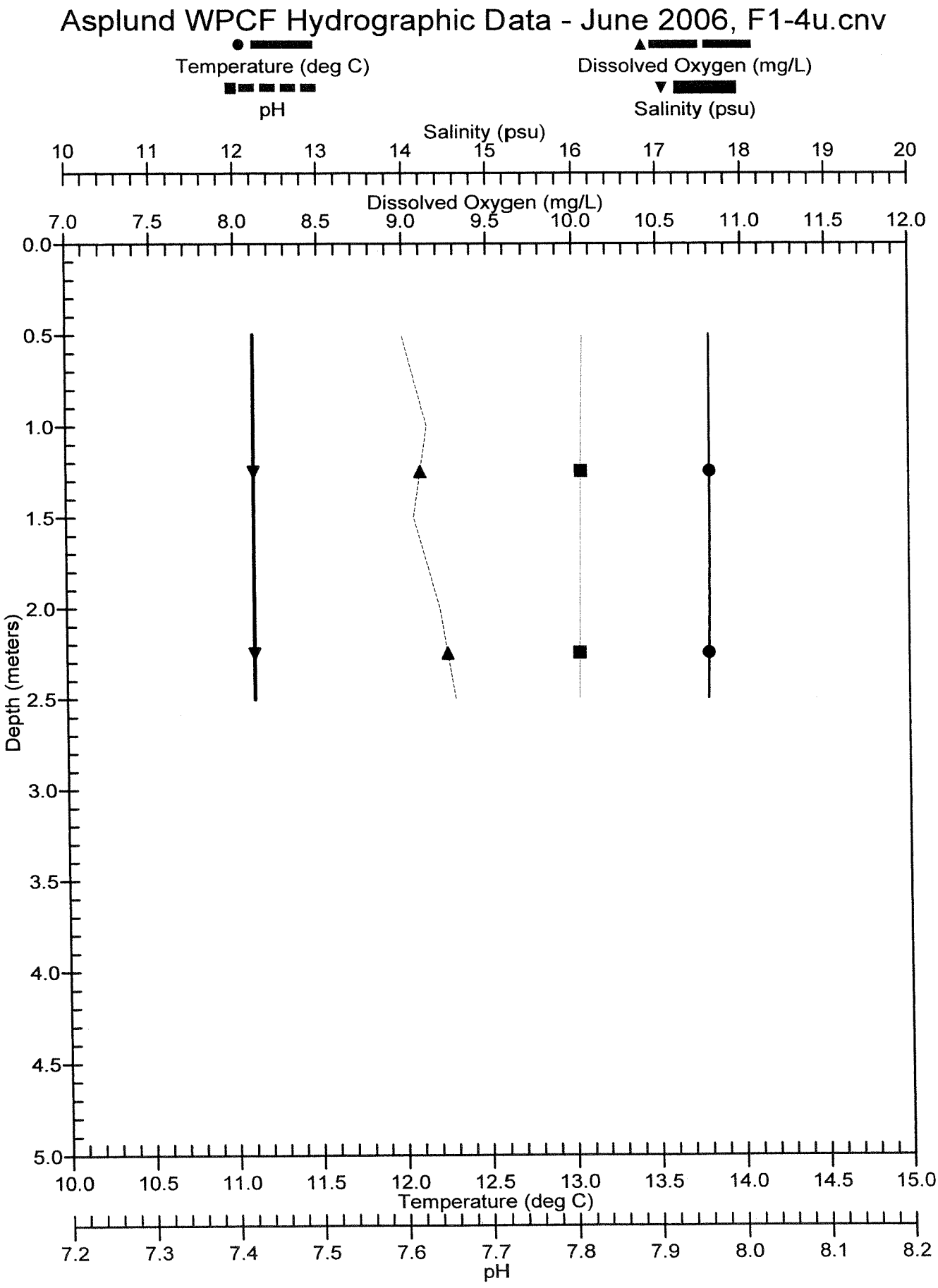

Asplund WPCF Hydrographic Data - June 2006, E3-2u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, E3-3u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

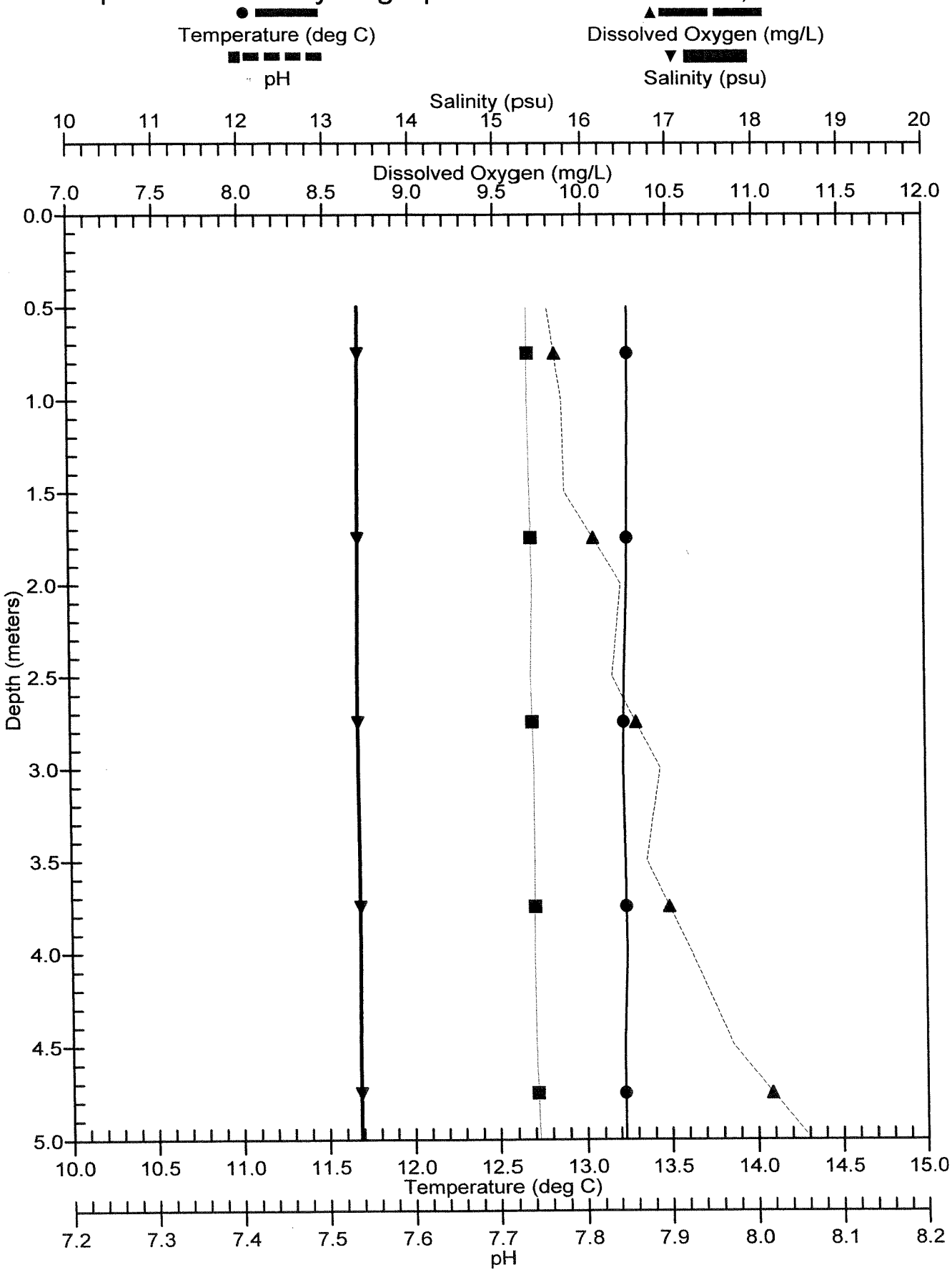

Asplund WPCF Hydrographic Data - June 2006, E3-4u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

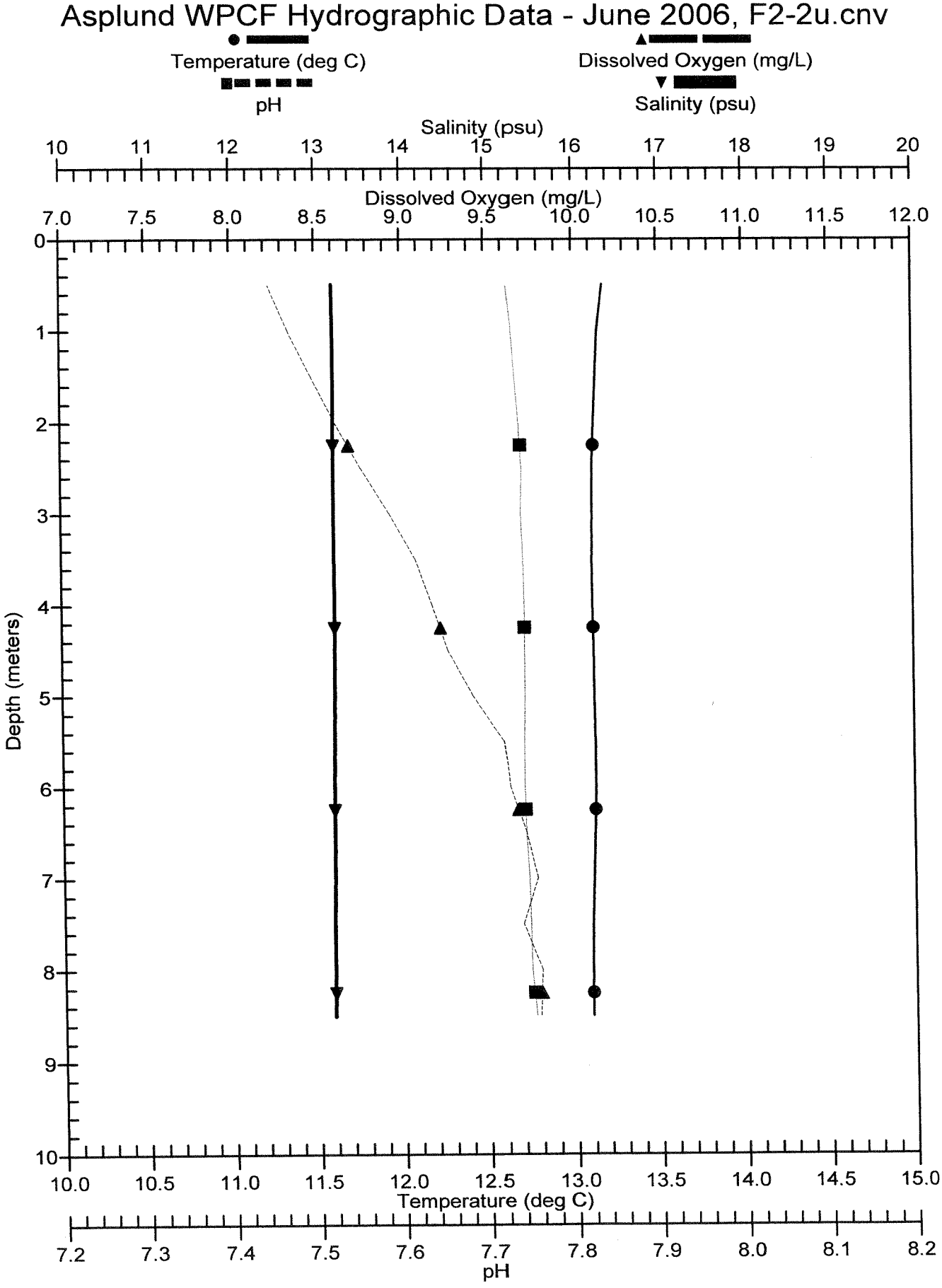

Asplund WPCF Hydrographic Data - June 2006, F1-2u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

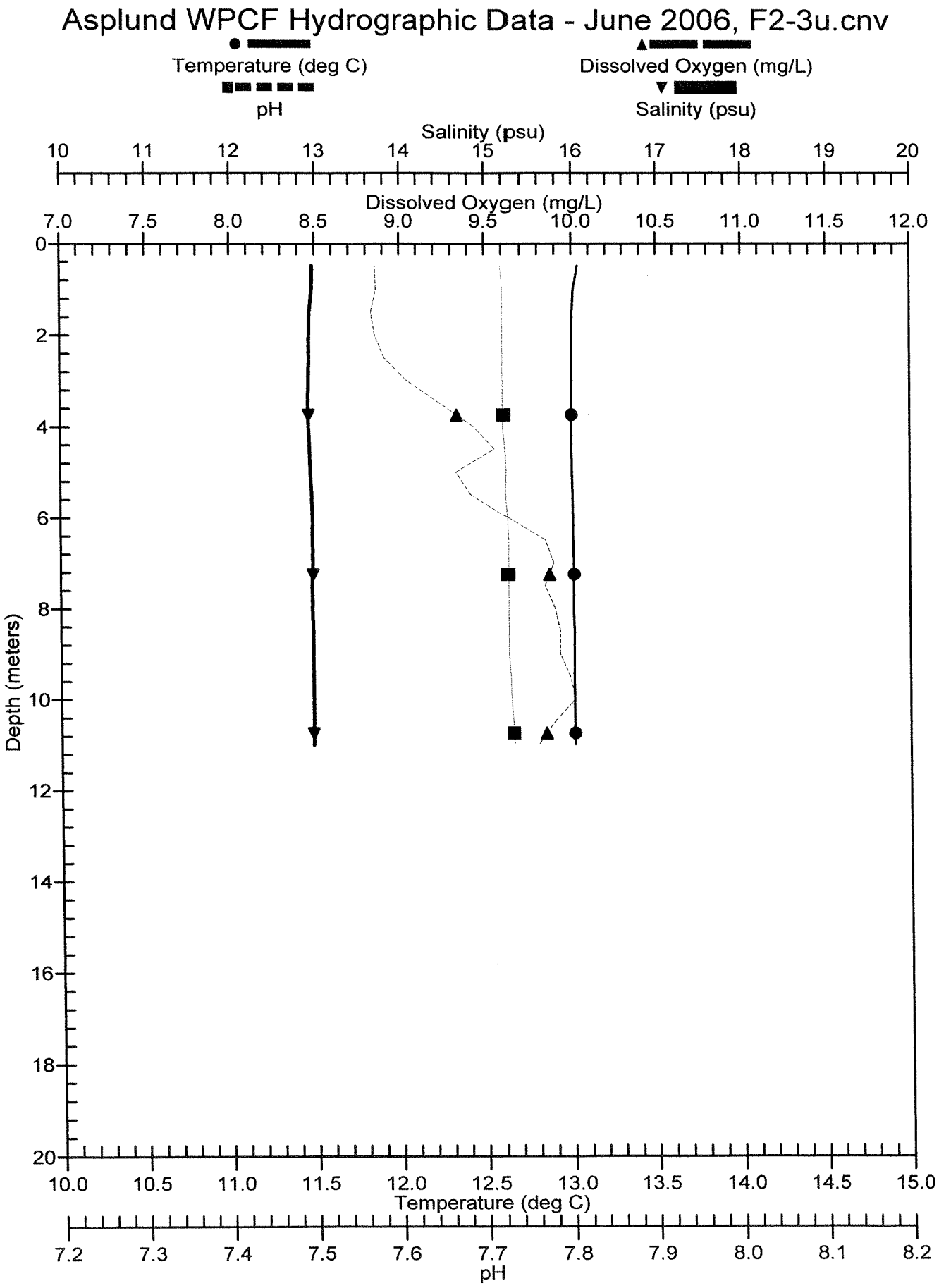

Asplund WPCF Hydrographic Data - June 2006, F1-3u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

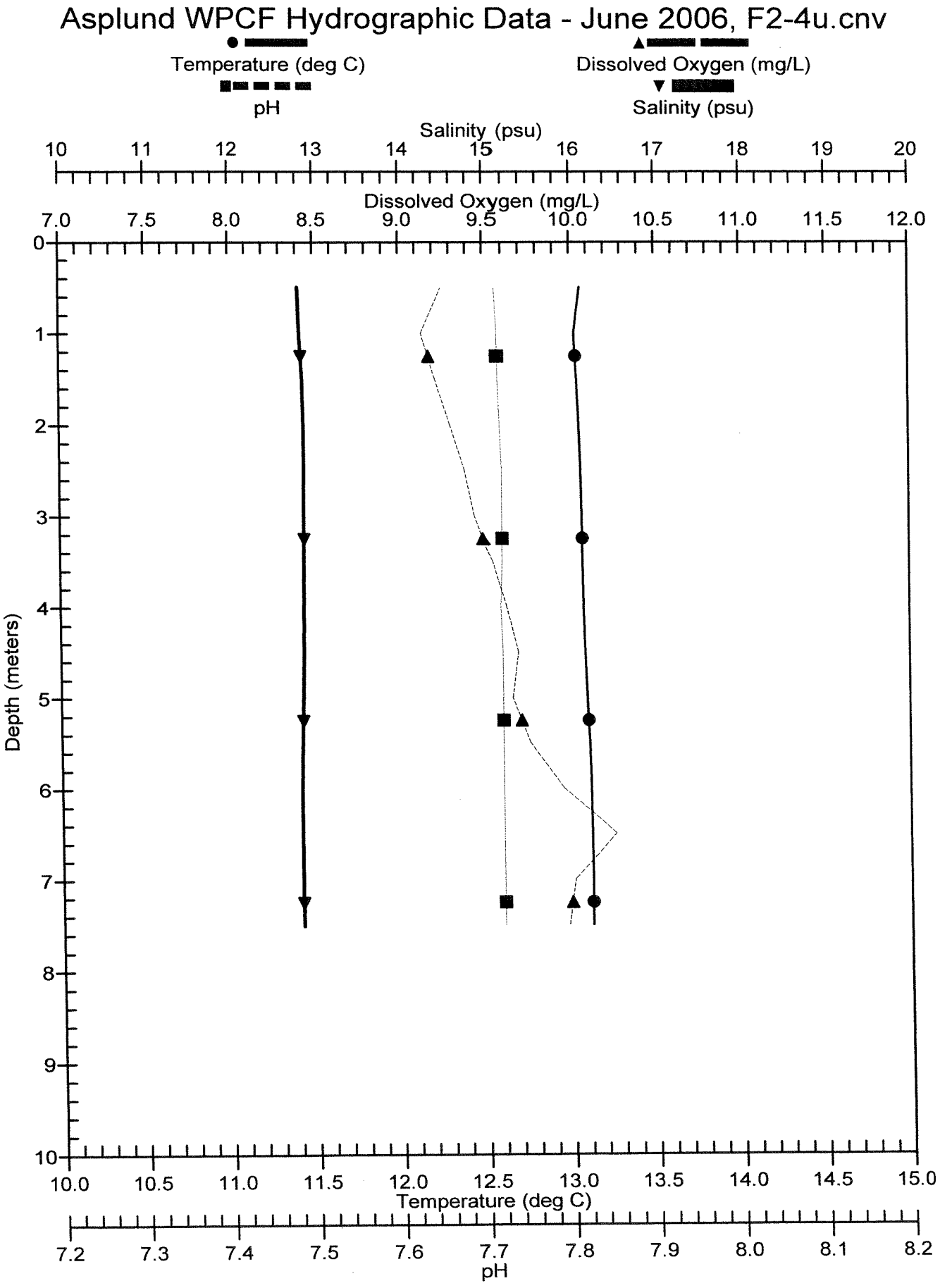

Asplund WPCF Hydrographic Data - June 2006, F1-4u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

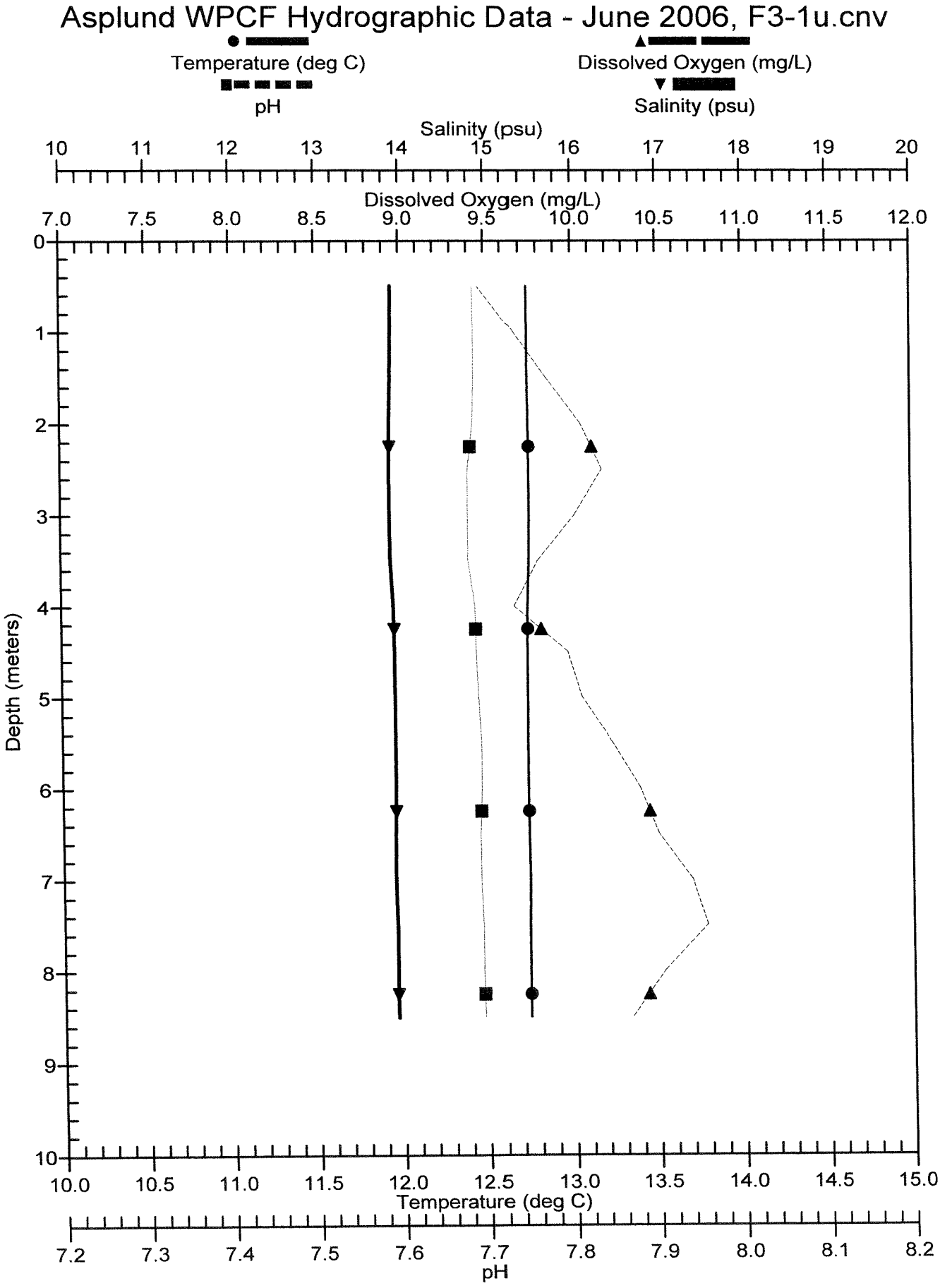
Asplund WPCF Hydrographic Data - June 2006, F2-1u.cnv



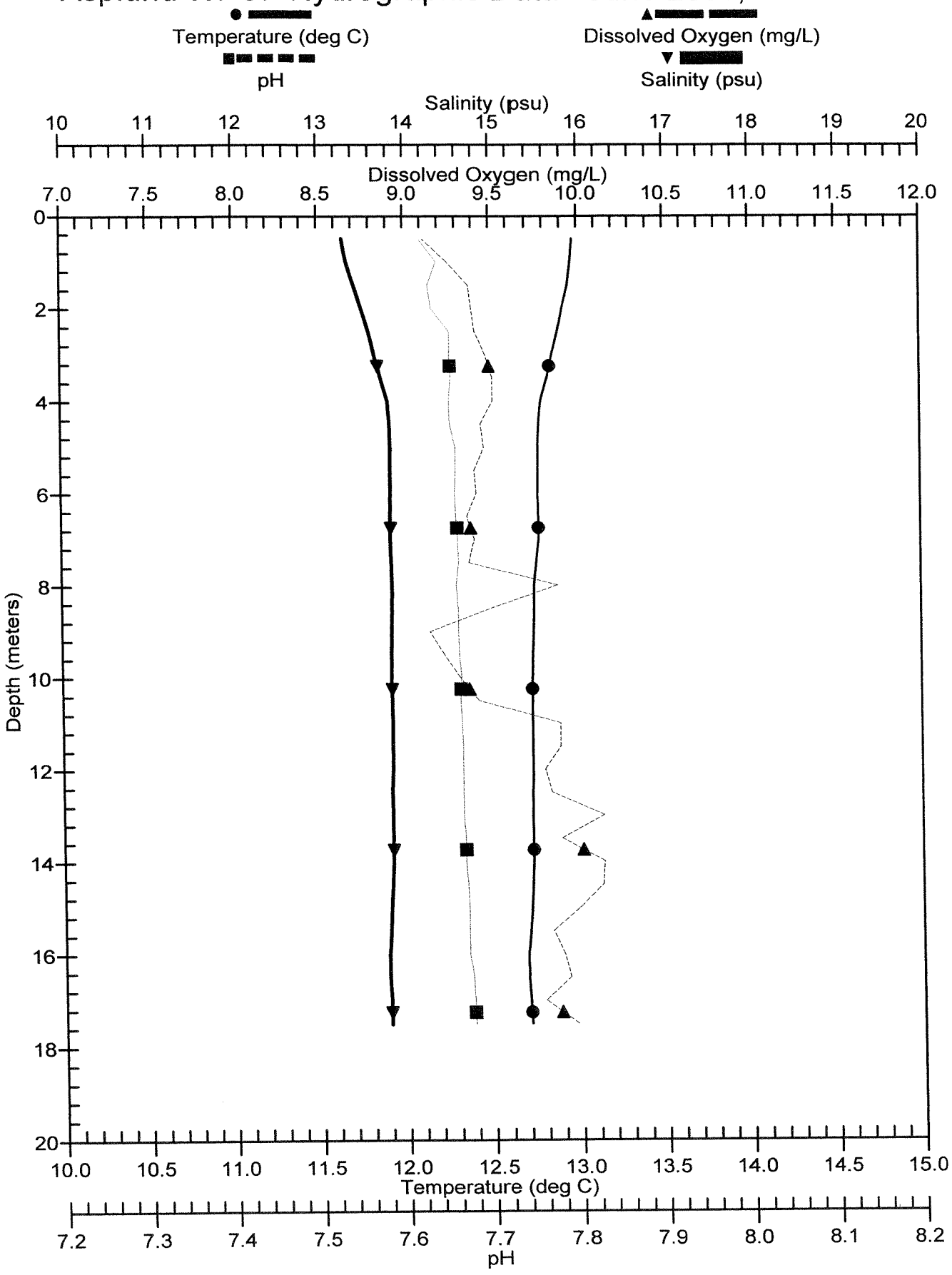

Asplund WPCF Hydrographic Data - June 2006, F2-2u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

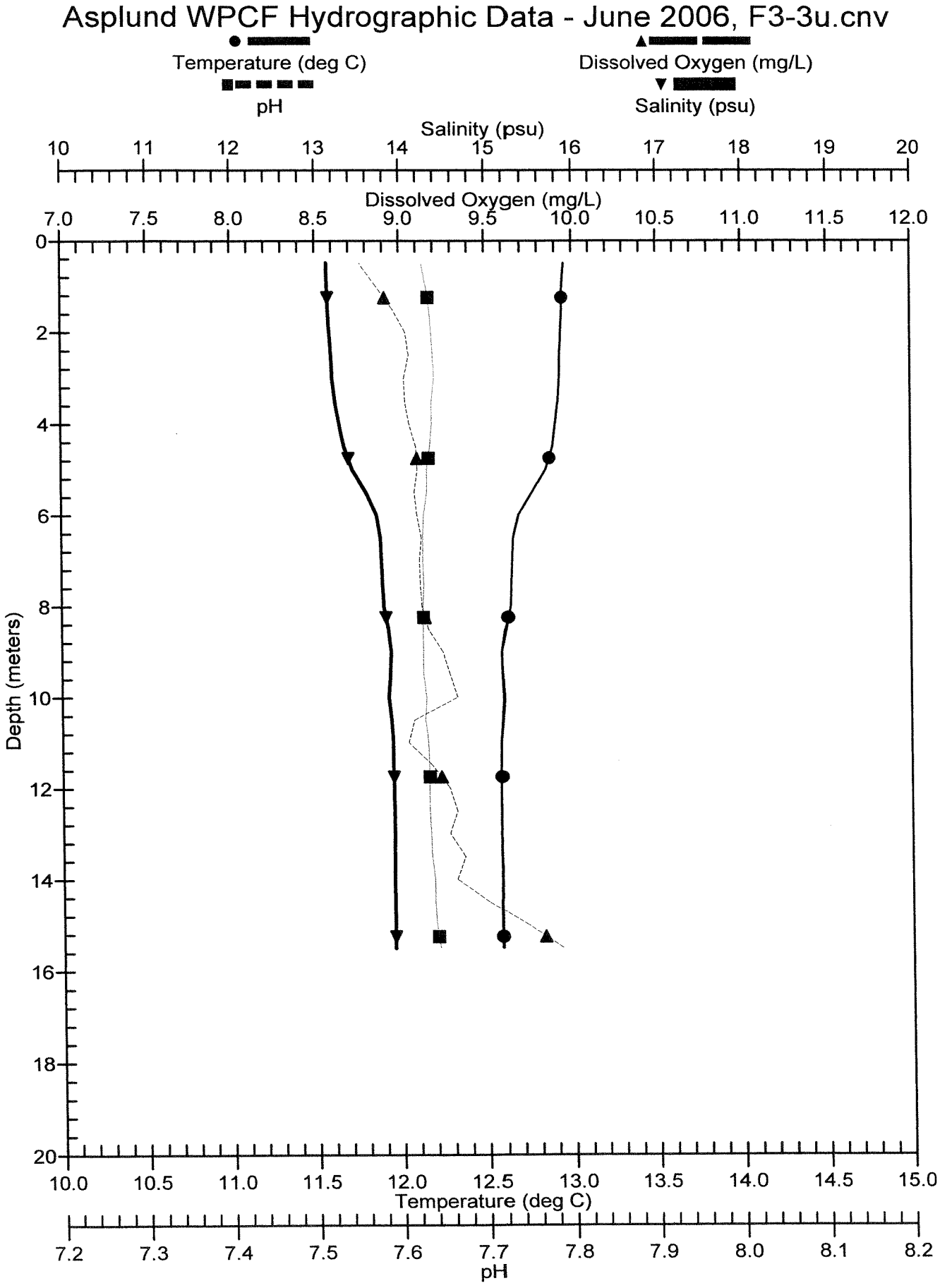

Asplund WPCF Hydrographic Data - June 2006, F2-3u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

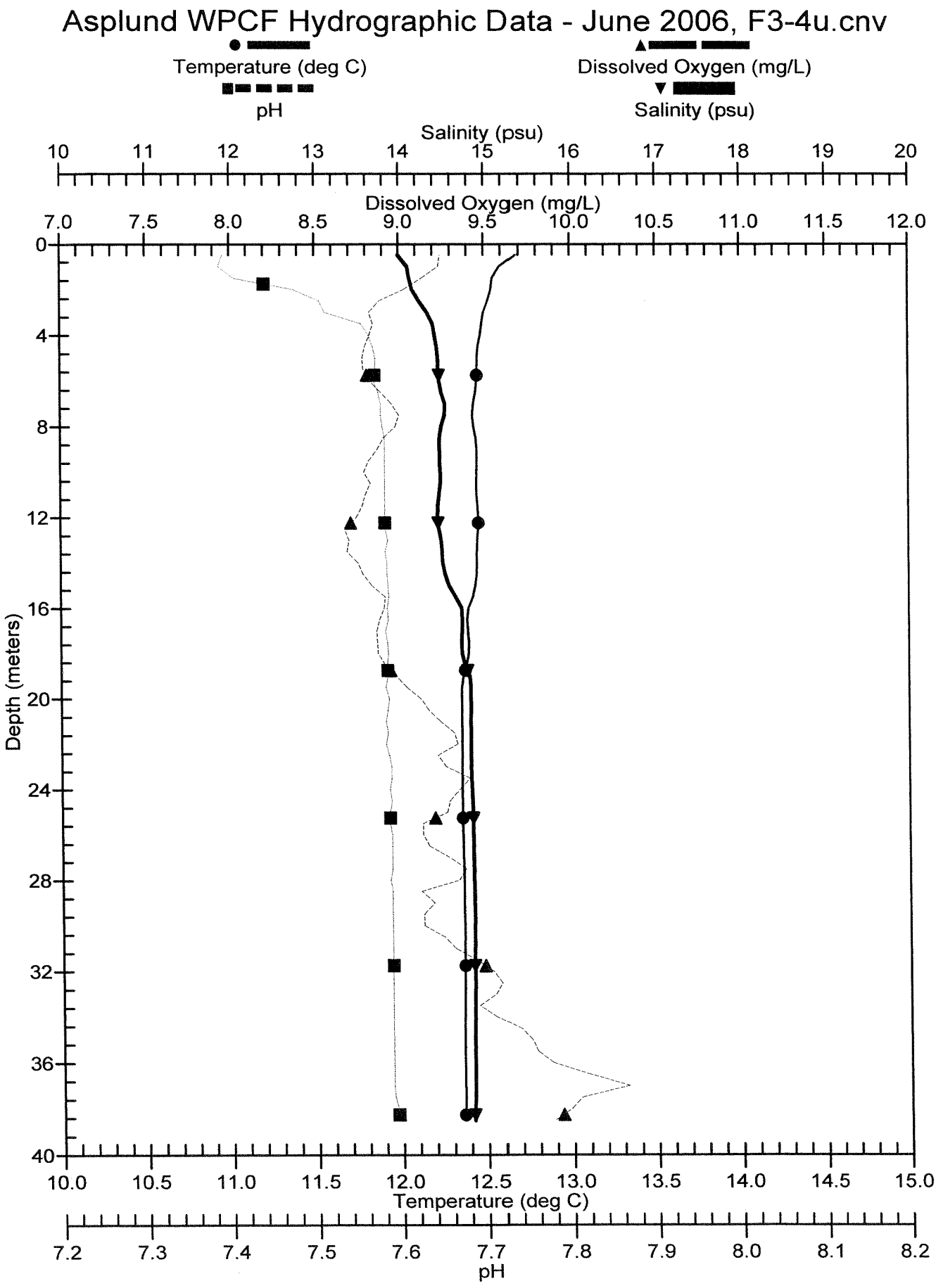

Asplund WPCF Hydrographic Data - June 2006, F2-4u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

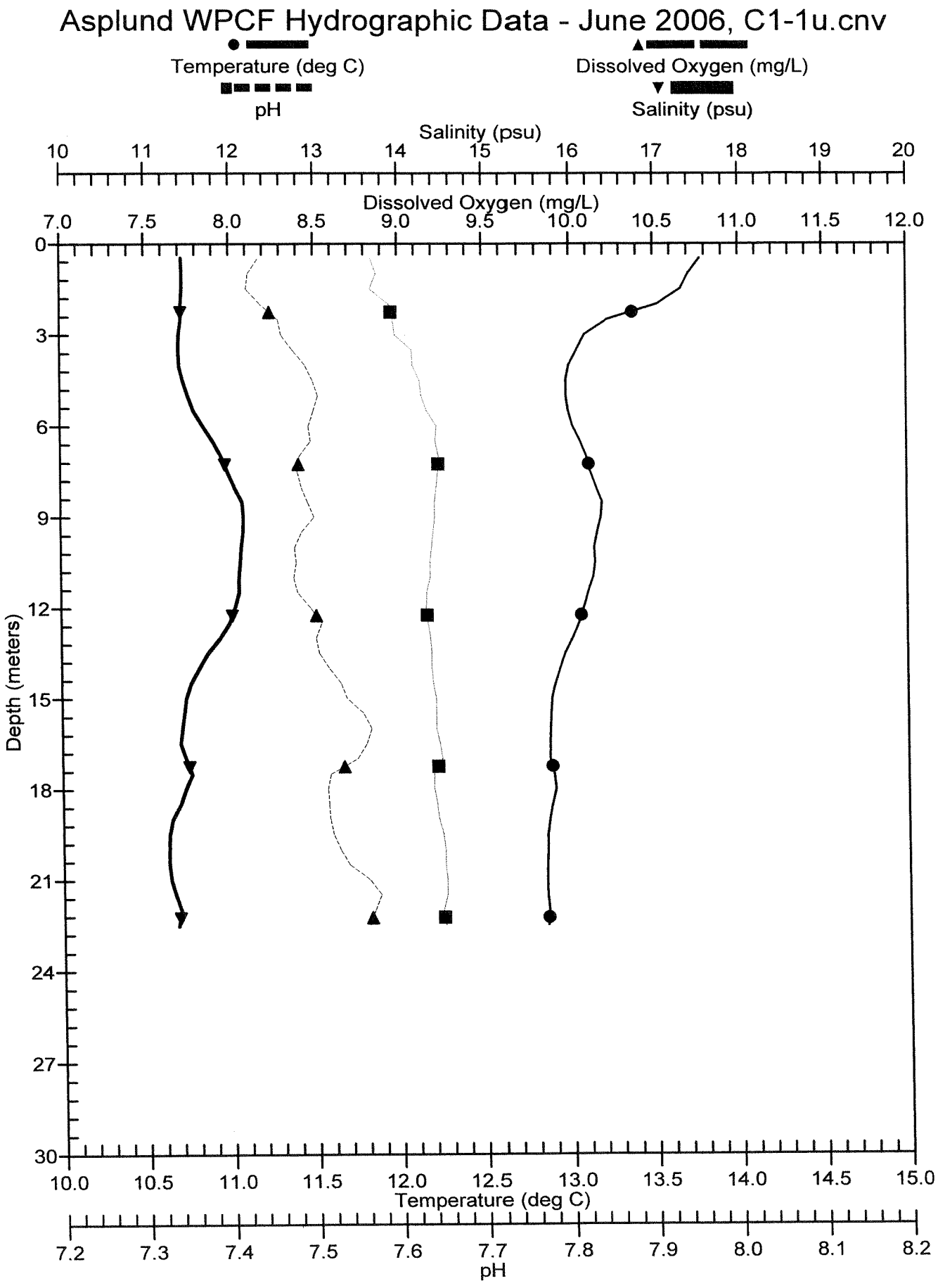

Asplund WPCF Hydrographic Data - June 2006, F3-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

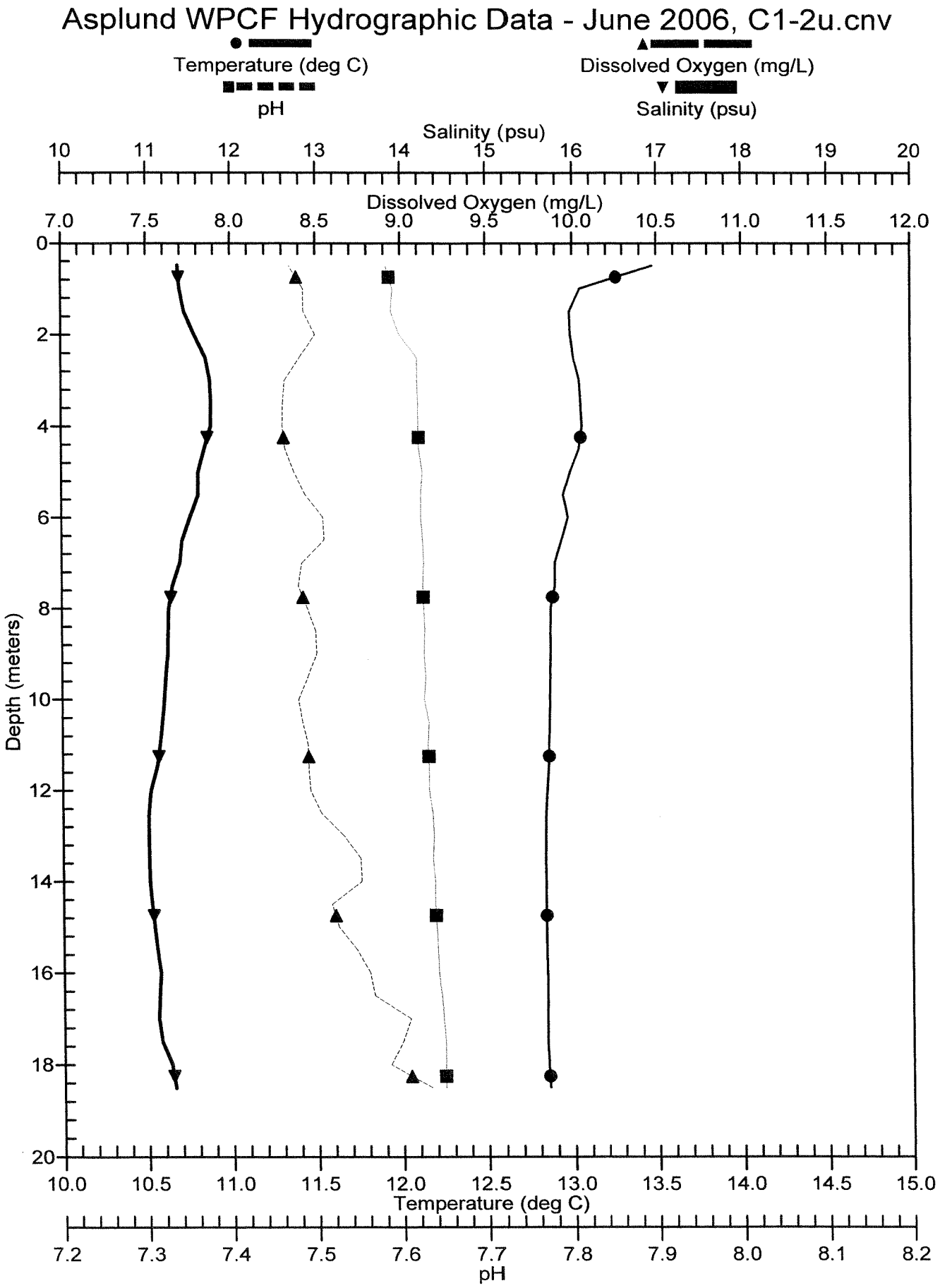
Asplund WPCF Hydrographic Data - June 2006, F3-2u.cnv

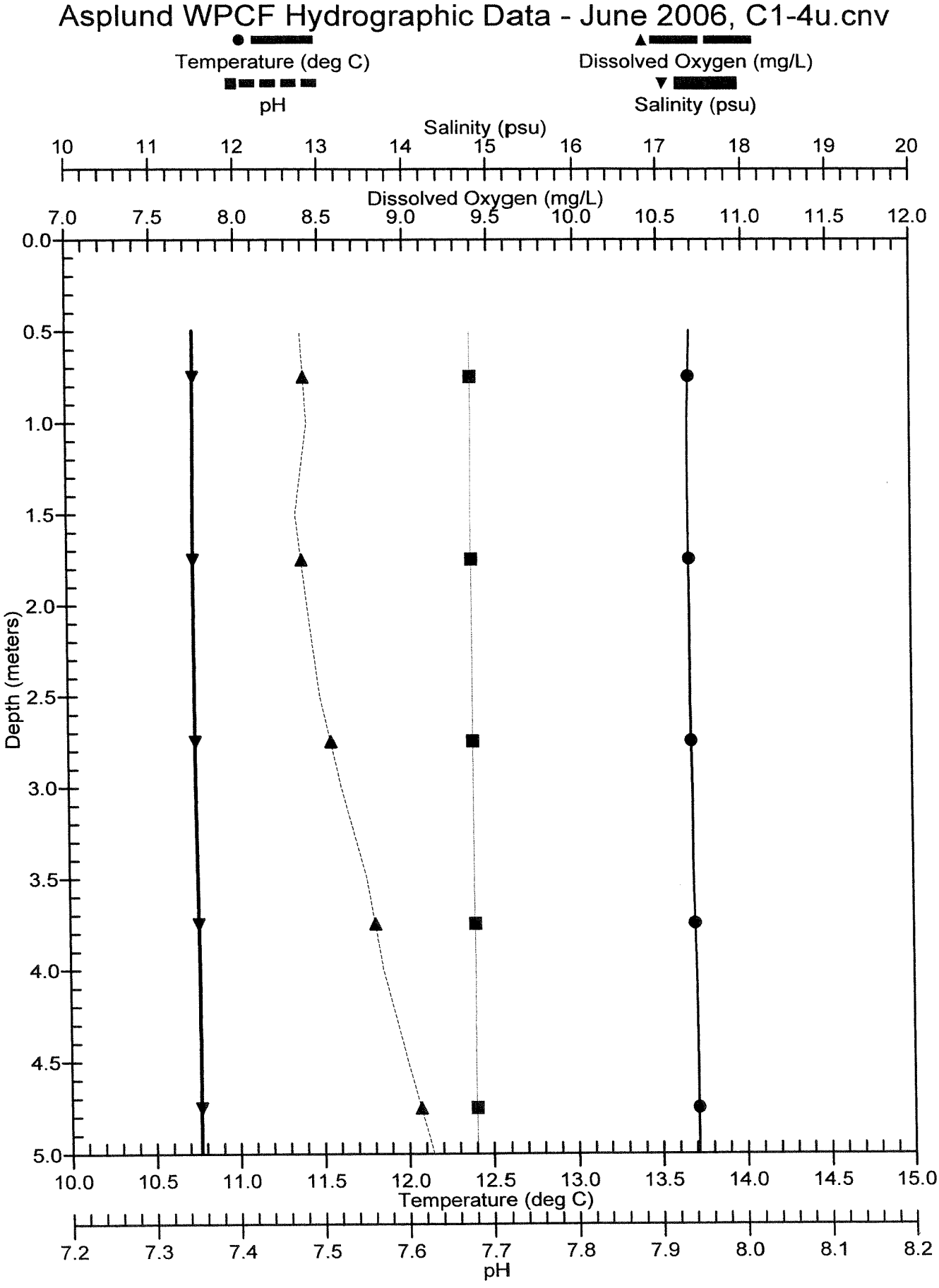


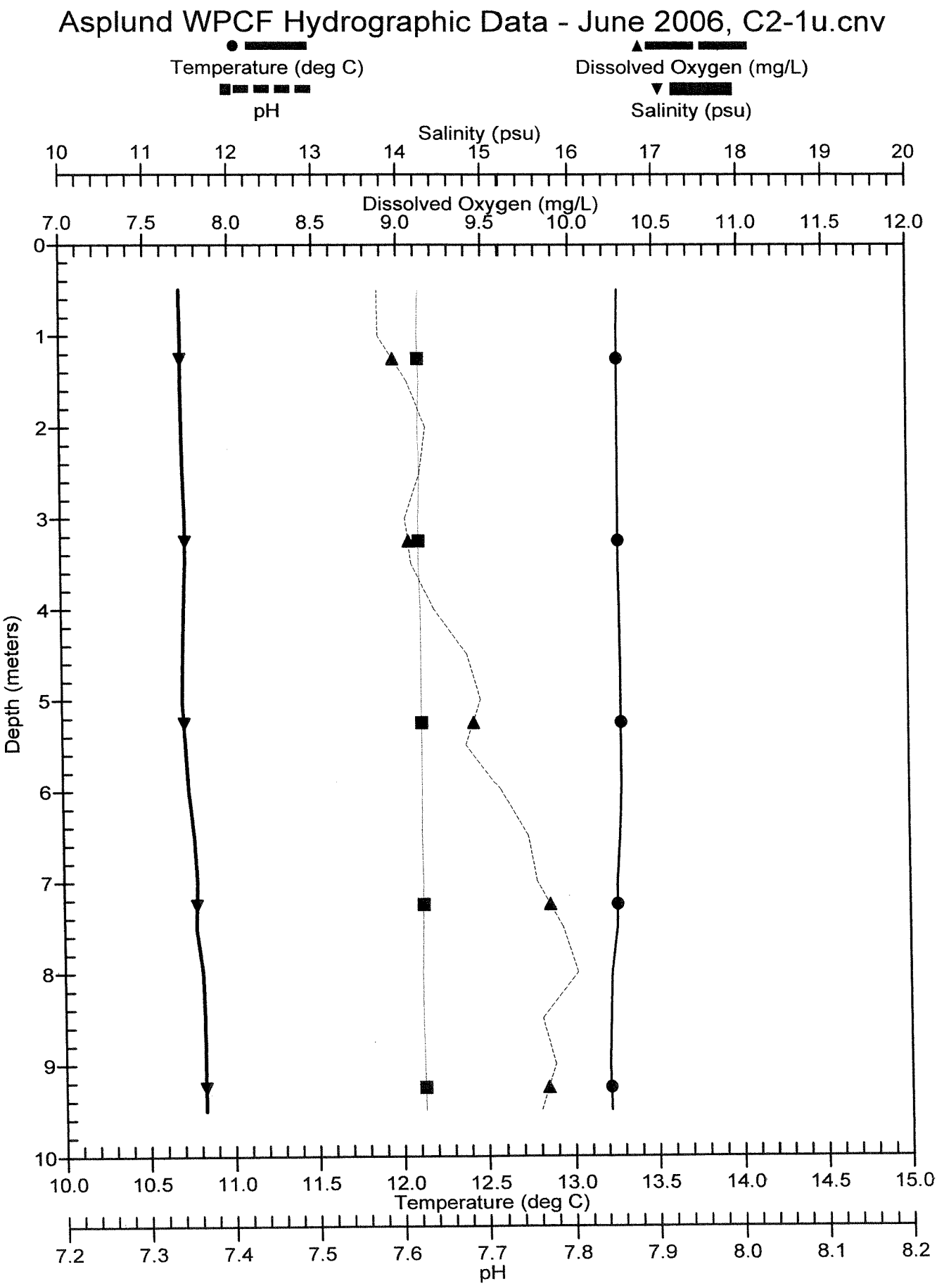

Asplund WPCF Hydrographic Data - June 2006, F3-3u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

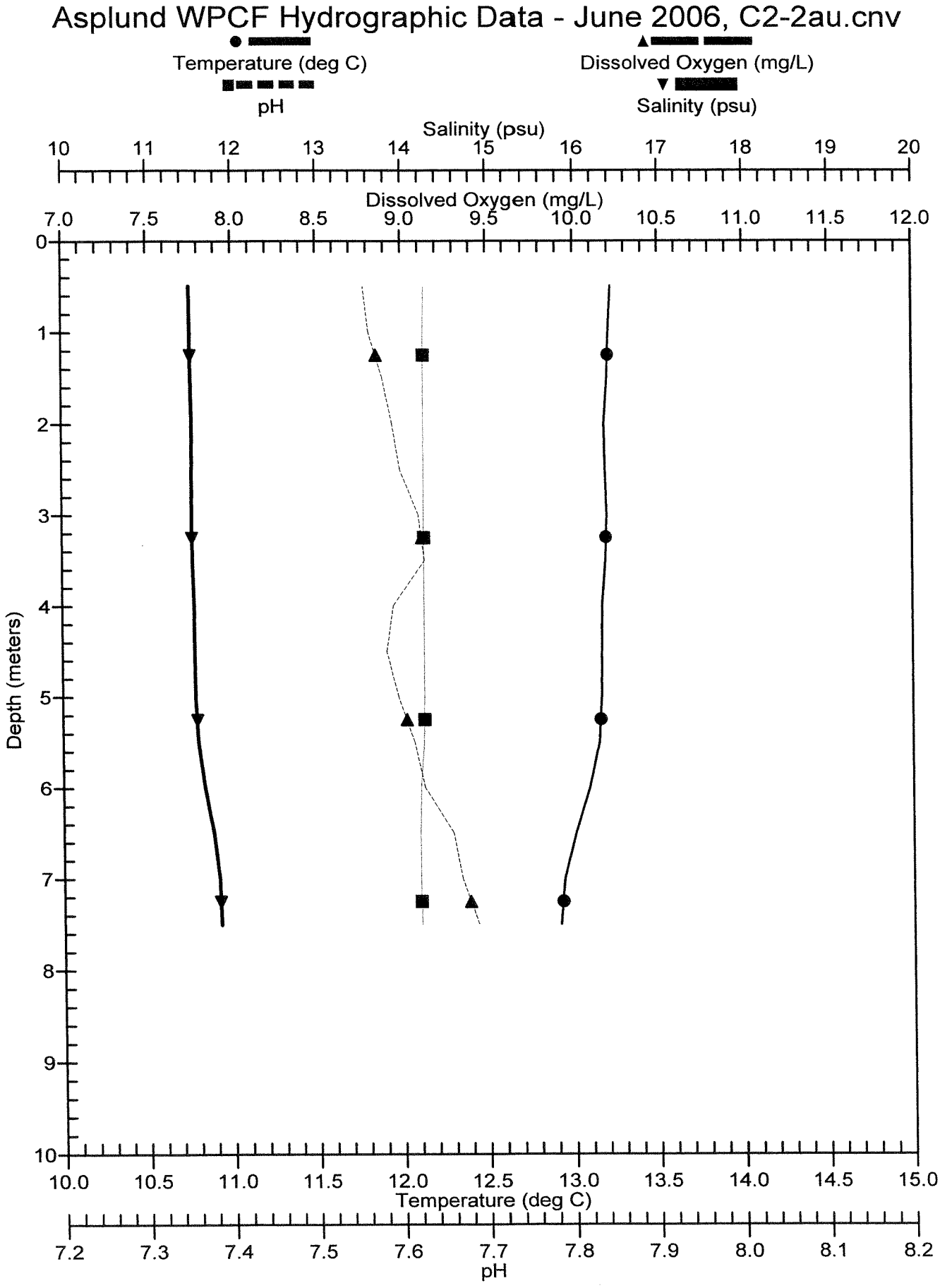

Asplund WPCF Hydrographic Data - June 2006, F3-4u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 4 8 12 16 20 24 28 32 36 40
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

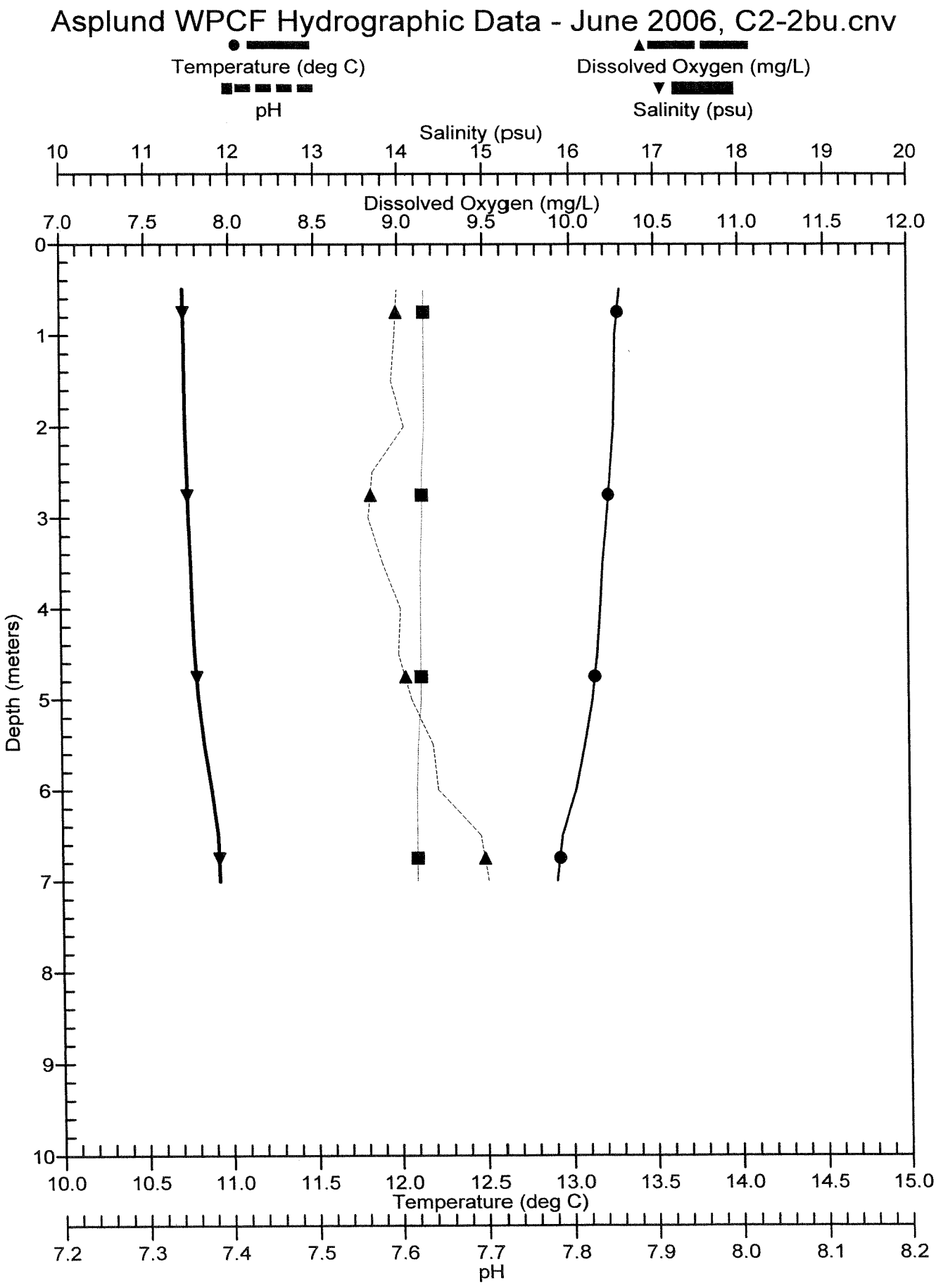

Asplund WPCF Hydrographic Data - June 2006, C1-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 3 6 9 12 15 18 21 24 27 30
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

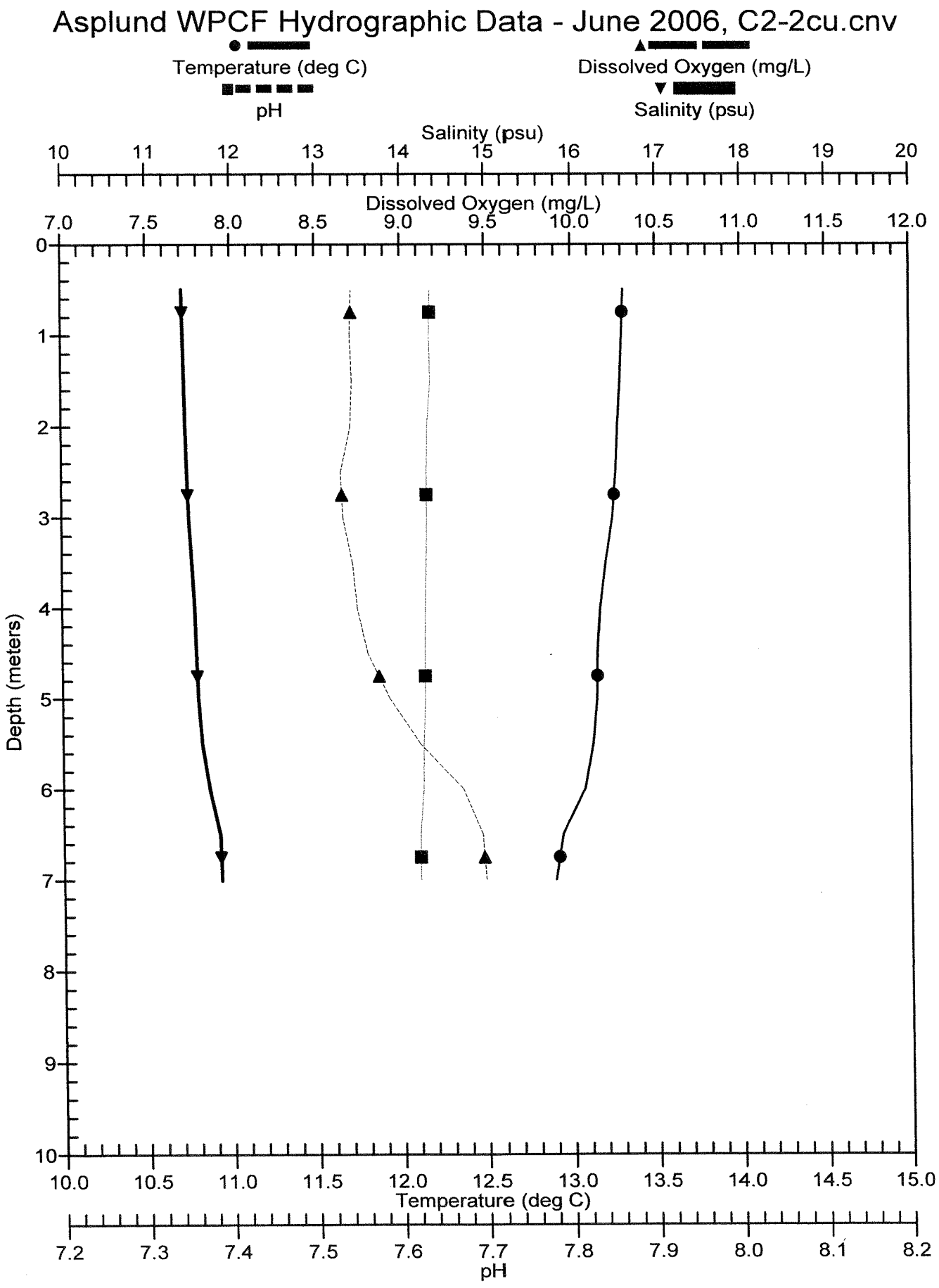

Asplund WPCF Hydrographic Data - June 2006, C1-2u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

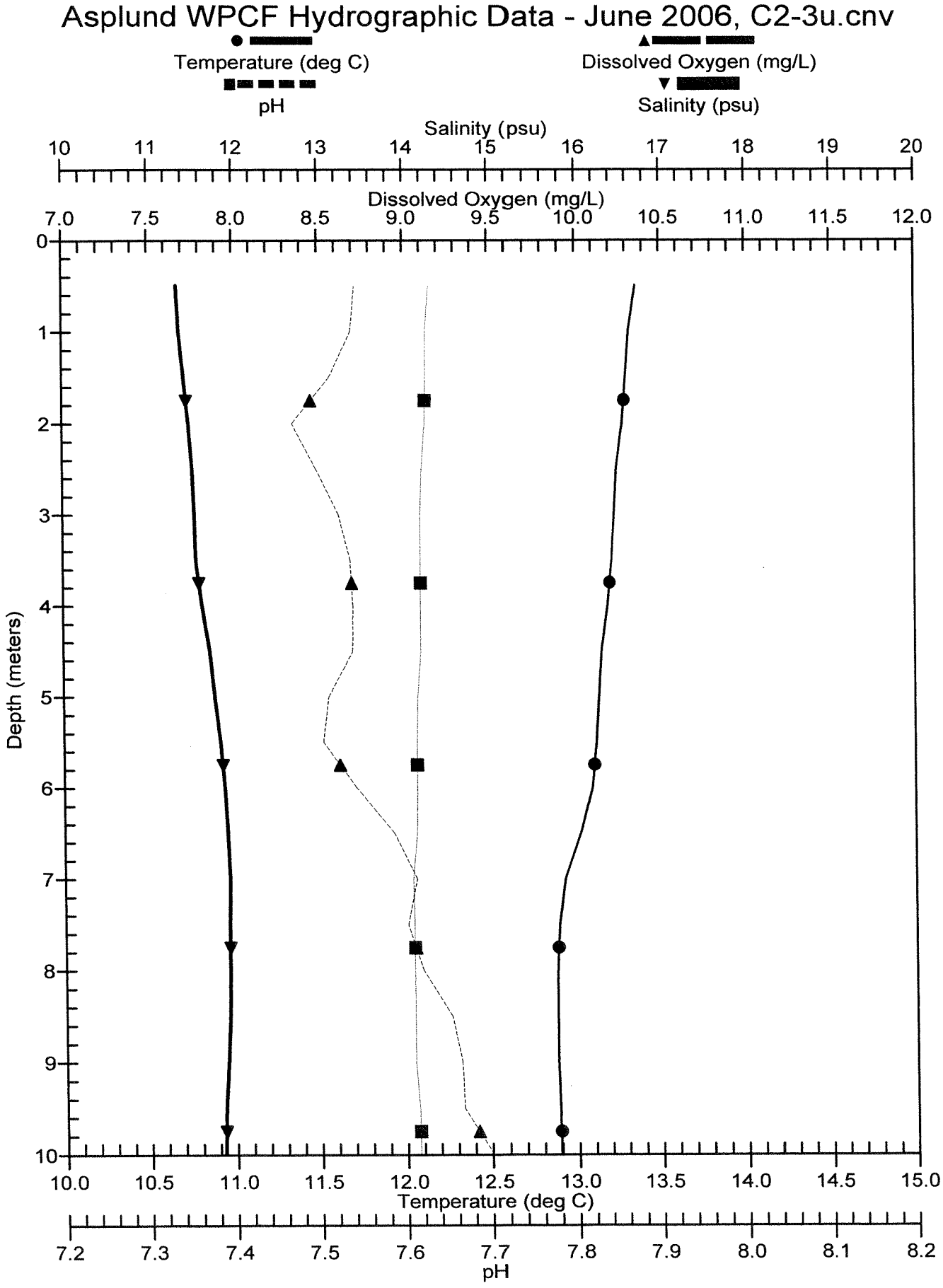

Asplund WPCF Hydrographic Data - June 2006, C1-4u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

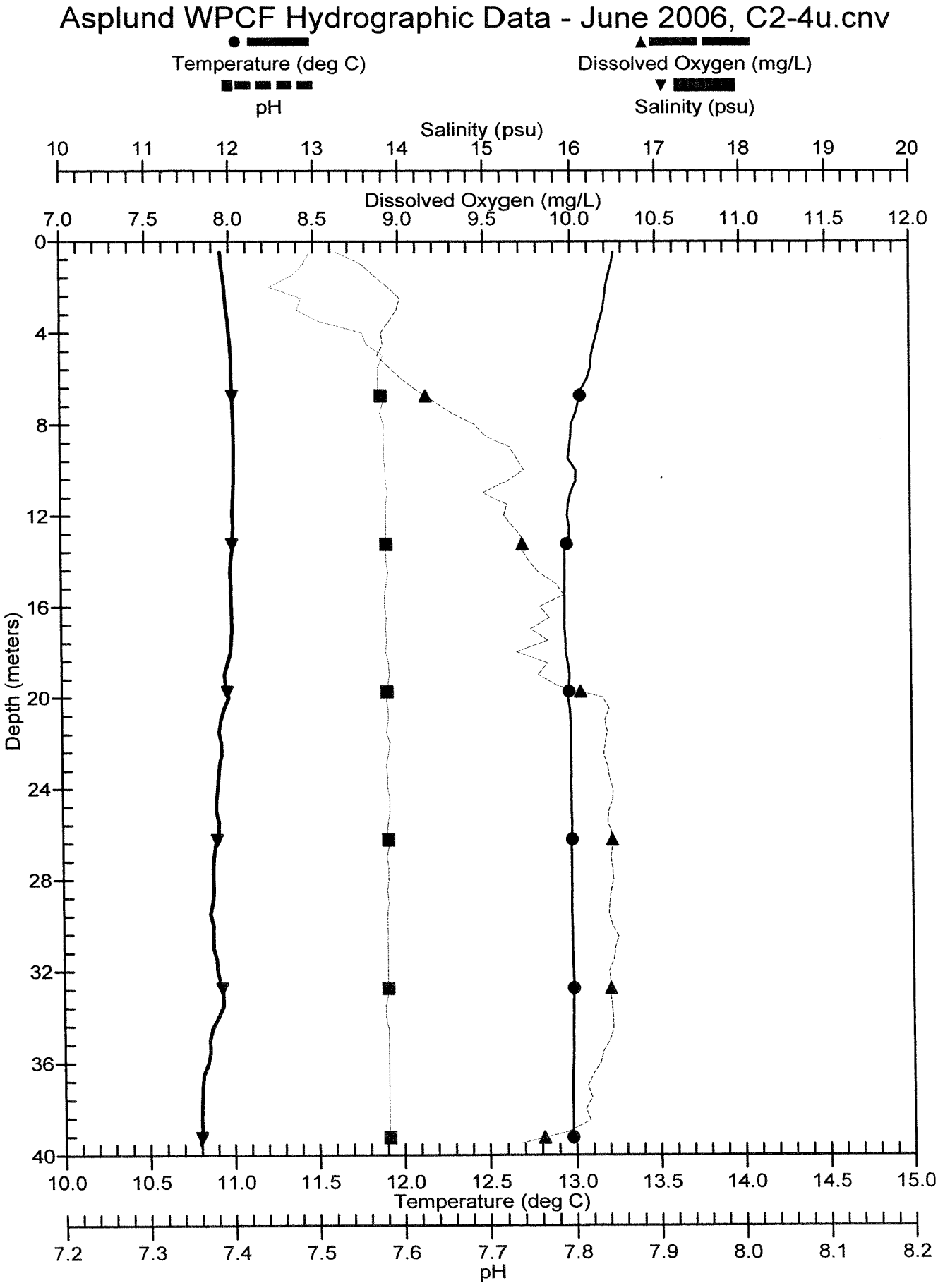

Asplund WPCF Hydrographic Data - June 2006, C2-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

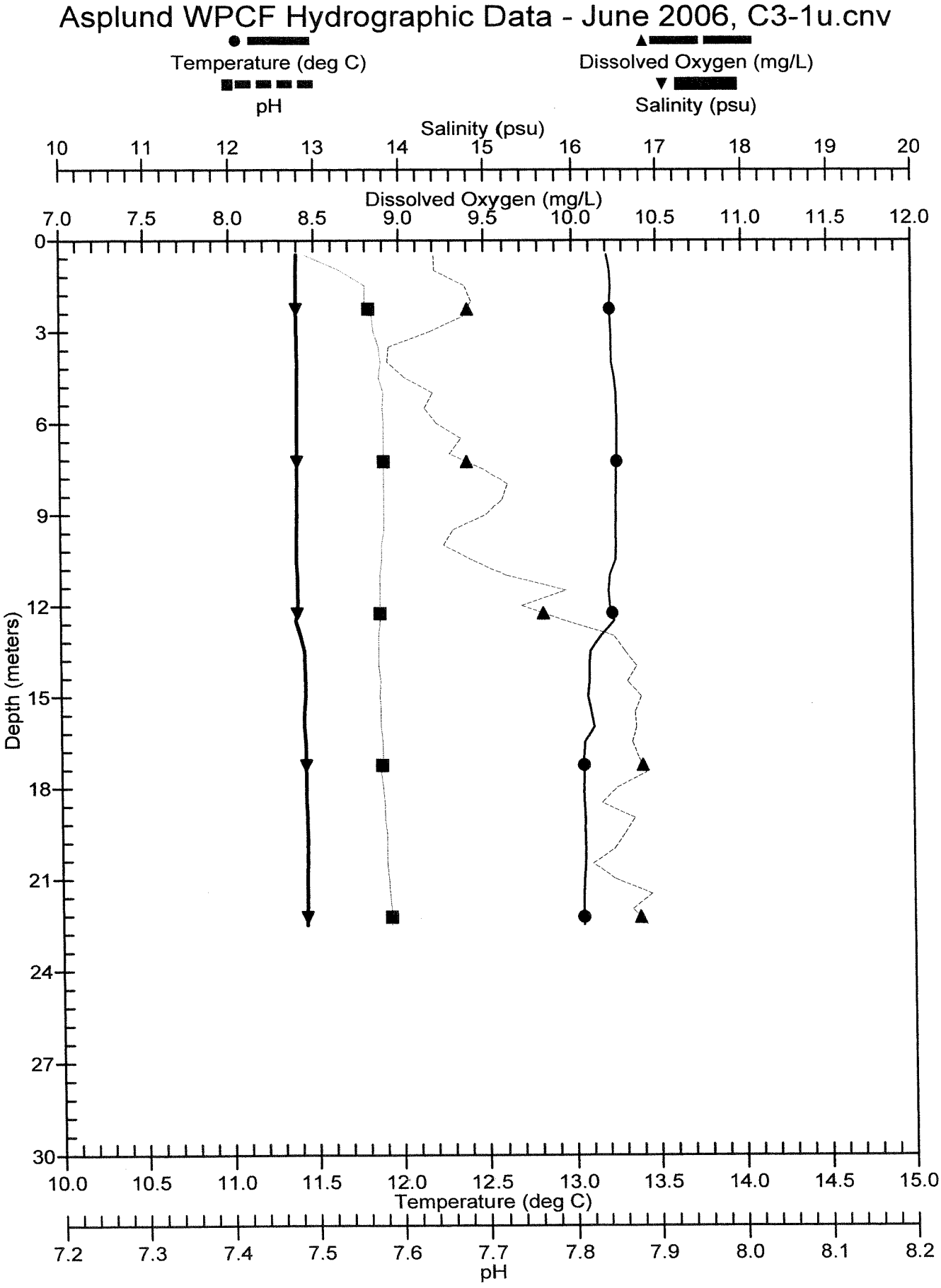

Asplund WPCF Hydrographic Data - June 2006, C2-2au.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

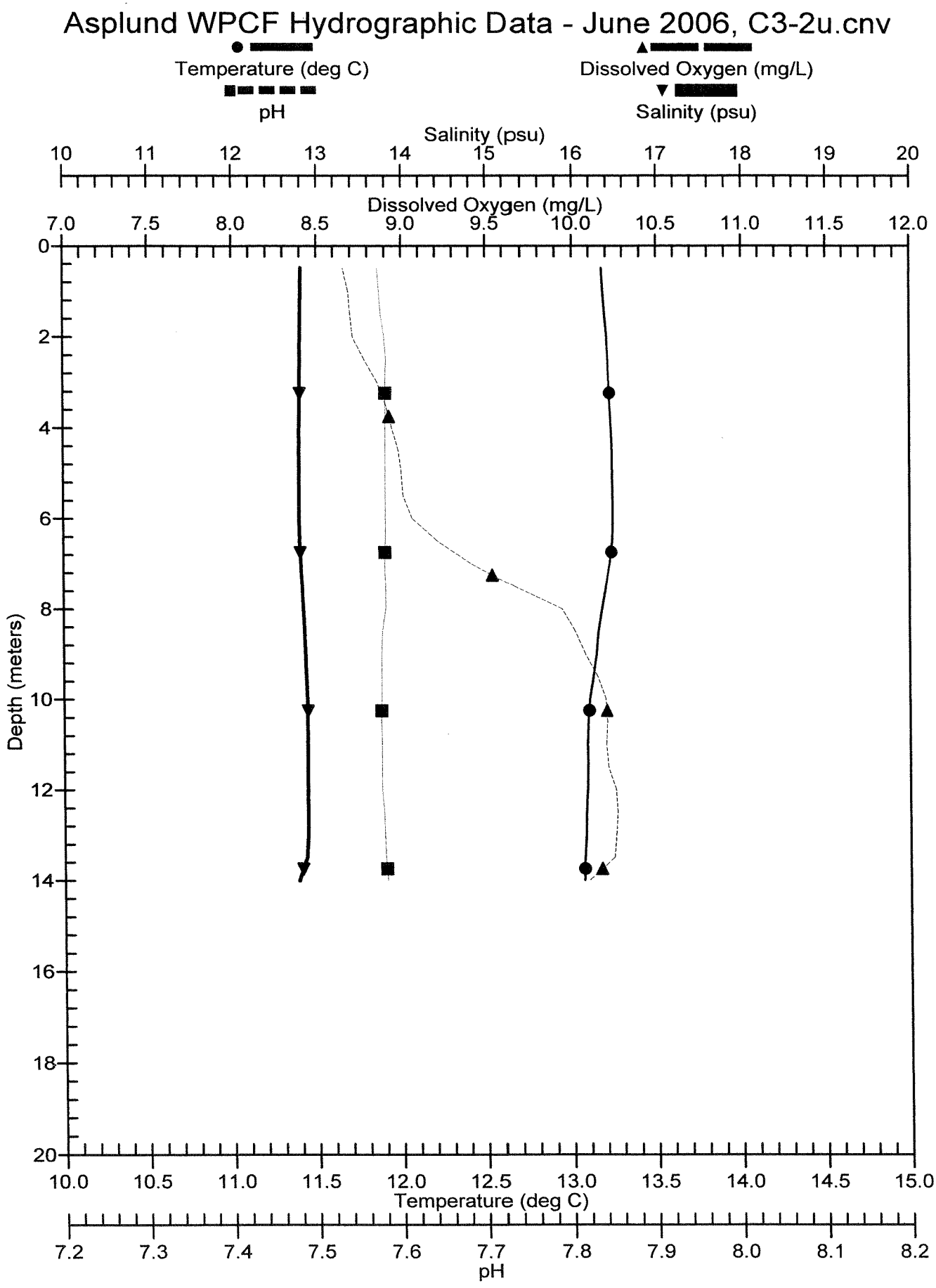

Asplund WPCF Hydrographic Data - June 2006, C2-2bu.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

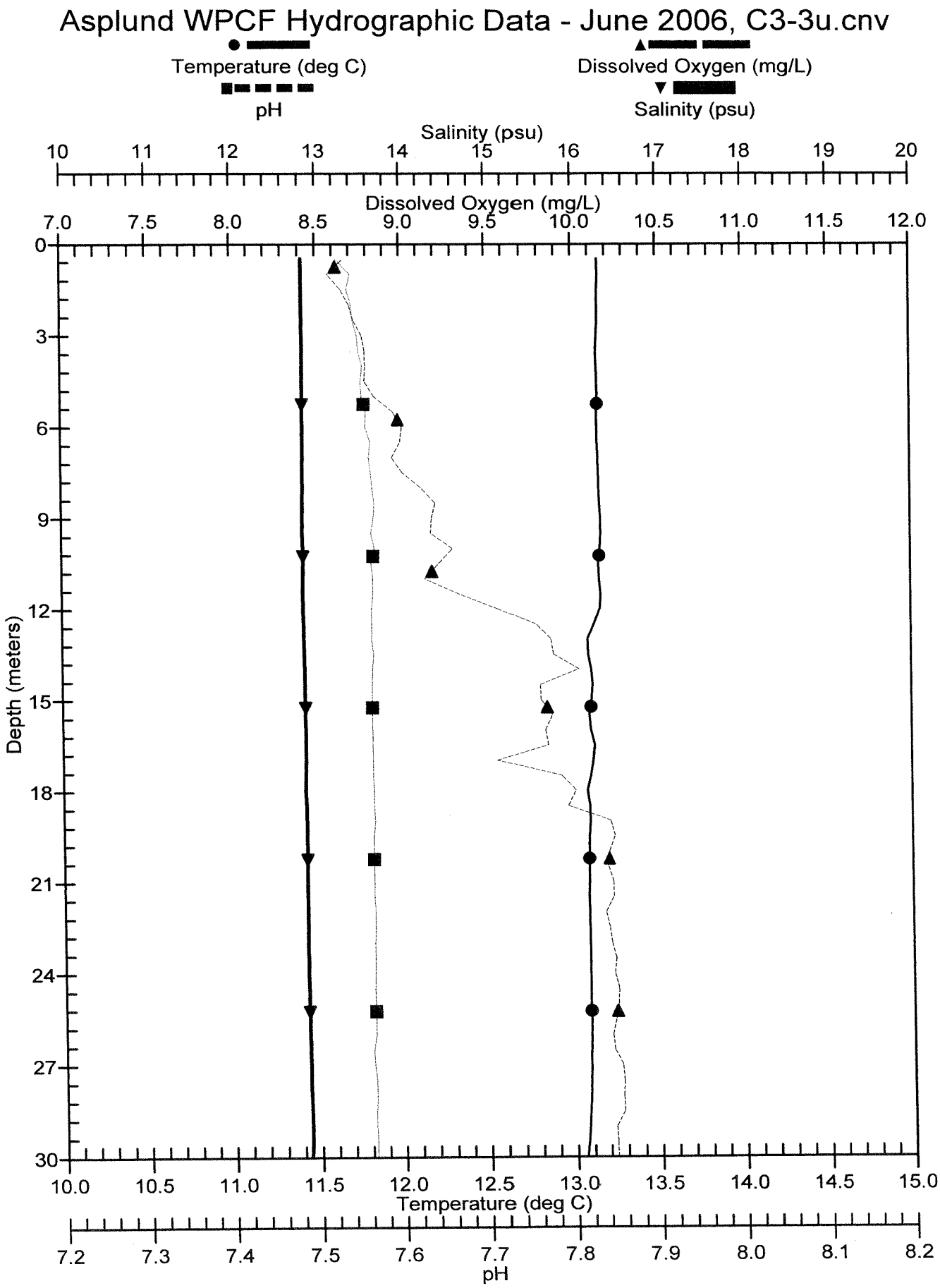

Asplund WPCF Hydrographic Data - June 2006, C2-2cu.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

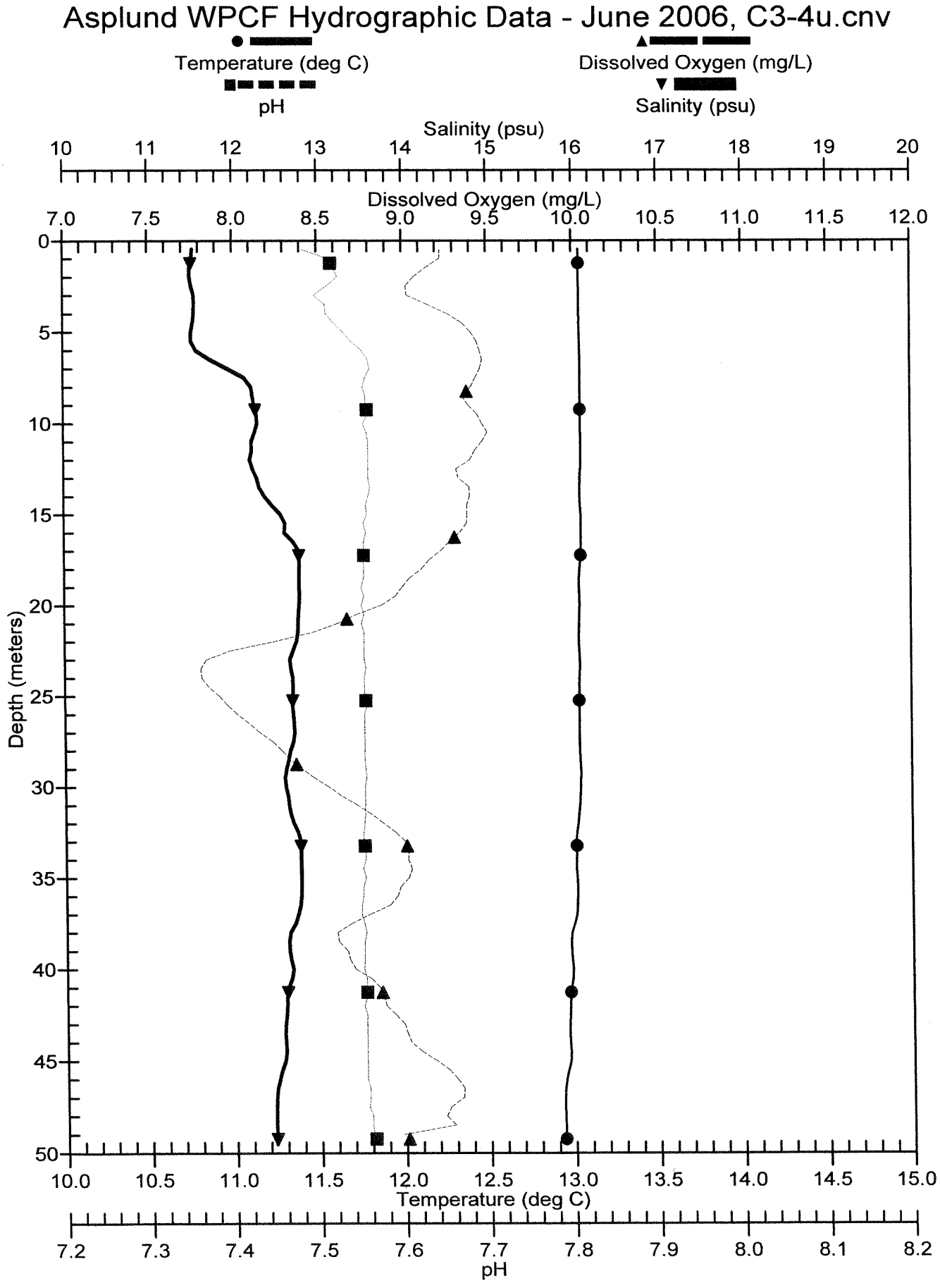

Asplund WPCF Hydrographic Data - June 2006, C2-3u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 1 2 3 4 5 6 7 8 9 10
10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0
Temperature (deg C)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, C2-4u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 4 8 12 16 20 24 28 32 36 40
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, C3-1u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 3 6 9 12 15 18 21 24 27 30
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, C3-2u.cnv
Temperature (deg C)
Dissolved Oxygen (mg/L)
pH
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 2 4 6 8 10 12 14 16 18 20
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, C3-3u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 3 6 9 12 15 18 21 24 27 30
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH


Asplund WPCF Hydrographic Data - June 2006, C3-4u.cnv
Temperature (deg C)
pH
Dissolved Oxygen (mg/L)
Salinity (psu)
Salinity (psu)
10 11 12 13 14 15 16 17 18 19 20
Dissolved Oxygen (mg/L)
7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0
Depth (meters)
0 5 10 15 20 25 30 35 40 45 50
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)
7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2
pH

APPENDIX D

Receiving Water Quality Monitoring

D10 Field Data Sheets

Kinnetic Laboratories, Inc.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 1 of 36
STATION: E1-1	TIME: 0932	
TIDE STAGE: Ebb	DEPTH: 11 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.338	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS	
LONGITUDE (W): 150° 01.287		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	X	01						
MID	X	X	X	X	02	X	X	X	X	X	
BOTTOM	X	X	X	X	03	X	X	X	X	X	

QC SAMPLES COLLECTED: CTD didn't turn on

CSTD Seabird: 299	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: overcast, light breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 2 of 36
STATION: E1-2	TIME: 0944	
TIDE STAGE: Ebb	DEPTH: 16 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.306	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.092	(Y)	COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 650 m from 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	✓	02	02	X	04						
MID	X	X	X	X	05	X	X	X	X	X	
BOTTOM	X	X	X	X	06	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 0	CSTD ON TIME: 1000

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 wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 3 of 36
STATION: E1-3	TIME: 1010	
TIDE STAGE: E66	DEPTH: 15 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.639'	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 04.154'		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 2.7 km from outfall WSW

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		07						
MID					08						
BOTTOM					09						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 1	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

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 4 of 36
STATION: E1-4	TIME: 1036	
TIDE STAGE: Ebb	DEPTH: 14.4 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.107	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 06.306		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	✓	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: 299	CAST NO.: 2	CSTD ON TIME: 1035

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: partly cloudy, light breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 5 of 36
STATION: E2-1	TIME: 1114	
TIDE STAGE:	DEPTH: 5 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.344	DGPS? Circle Y or N	DGPS REFERENCE STN: WAD5
LONGITUDE (W): 150° 01.294		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	✓	05	05		13						
MID					14						
BOTTOM					15						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: MS 4 3	CSTD ON TIME: 1114

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

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 6 of 36
STATION: E2-2	TIME: 1120	
TIDE STAGE: Ebb	DEPTH: 7 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61°	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150°		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 650m west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	06	06		16						
MID					17						
BOTTOM					18						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 4	CSTD ON TIME: 1120

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	**DATE:** 6/27/06	Page 7 of 36
STATION: E2-3	**TIME:** 1128	
TIDE STAGE: Ebb	**DEPTH:** 22 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.058'	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** cAdS
LONGITUDE (W): 150° 03.012		**COORDINATE SYSTEM:** *Nad83*

STATION LOCATION/DESCRIPTION: ~1.5 km west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	07	07	X	19						
MID	X	X	X	X	20	X	X	X	X	X	
BOTTOM	X	X	X	X	21	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	**CAST NO.:** 5	**CSTD ON TIME:** 1128

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 8 of 36
STATION: E2-4	TIME: 1154	
TIDE STAGE: Ebb	DEPTH: 18 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.485	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 04.456		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 3.2 km west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	08	08		22						
MID					23						
BOTTOM					24						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 6	CSTD ON TIME: 1154

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

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 9 of 36
STATION: E3-1	TIME: 1314	
TIDE STAGE: Ebb	DEPTH: 5 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.342	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.276		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: @ Outfall Diffuser

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	09	09	X	25						
MID	X	X	X	X	26	X	X	X	X	X	
BOTTOM	X	X	X	X	27	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 7	CSTD ON TIME: 1314

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	|		
SHEEN OR OIL	|		
ODOR	|		
RECREATION	|		
WILDLIFE	|		

WEATHER INFORMATION/COMMENTS: Partly cloudy, light breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/29/06	Page 10 of 36
STATION: E3-2	TIME: 1324	
TIDE STAGE: Ebb	DEPTH: 11.1 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.241	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.981		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: ZID Boundary ~650m west of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	10	10		28						
MID					29						
BOTTOM					30						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 8	CSTD ON TIME: 1324

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: partly cloudy

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 11 of 36
STATION: E3-3	TIME: 1352	
TIDE STAGE: Ebb	DEPTH: 61 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.758	DGPS? Circle Y or N	DGPS REFERENCE STN: ~~QUAD~~
LONGITUDE (W): 150° 02.245		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.4 Km SW of diffuser inshore of 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	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:

CSTD Seabird: 299	CAST NO.: 9	CSTD ON TIME: 1352

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 12 of 36
STATION: E3-4	TIME: 1411	
TIDE STAGE: Ebb	DEPTH: 4.5 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 11.392	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 02.731		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 2.1 km SW of diffuser

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	12	12		34						
MID					35						
BOTTOM					36						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 10	CSTD ON TIME: 1411

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 13 of 36
STATION: F1-1	TIME: 1603	
TIDE STAGE: Flood	DEPTH: 3.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.340	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.301		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: At outfall buoy

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	X	37	01	01	01	01	01	
MID	X	X	X	X	38	X	X	X	X	X	
BOTTOM	X	X	X	X	39	X	X	X	X	X	

QC SAMPLES COLLECTED: Chemistry Station

CSTD Seabird: 299	CAST NO.: 11	CSTD ON TIME: 1603

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	none		
SHEEN OR OIL	none		
ODOR	chlorine/wastewater smell		
RECREATION	3 people + dog walking on beach		
WILDLIFE	gulls @ outfall buoy		

WEATHER INFORMATION/COMMENTS:

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 14 of 36
STATION: F1-2	TIME: 1635	
TIDE STAGE: Flood	DEPTH: 3.5 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.441	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.589		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	✓	14	14	X	40	02/03	02	02	02	02	
MID	X	X	X	X	41	X	X	X	X	X	
BOTTOM	X	X	X	X	42	X	X	X	X	X	

QC SAMPLES COLLECTED: Chemistry, Dups on 602's

CSTD Seabird: 299	CAST NO.: 12	CSTD ON TIME: 1635

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION	2 people w/	dog on board	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS:

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 15 of 36
STATION: F1-3	TIME: 1650	
TIDE STAGE: Flood	DEPTH: 4.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.358	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.939		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.3 km from 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		43	04	03	03	03	03	
MID					44						
BOTTOM					45						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 13	CSTD ON TIME: 1650

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 16 of 36
STATION: F1-4	TIME: 1716	
TIDE STAGE: Flood	DEPTH: 3.4 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.172'	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.954'		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 2.0 Km from 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	✓	16	16		46						
MID					47						
BOTTOM					48						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 14	CSTD ON TIME: 1716

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	trace on CTD		
SHEEN OR OIL	none		
ODOR	↓		
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: sunny/ partly cloudy, light NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 8 of 36
STATION: F2-1	TIME: 1746	
TIDE STAGE: Flood	DEPTH: 6.2 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61°	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150°		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	✓	17	17	X	49						
MID	X	X	X	X	50	X	X	X	X	X	
BOTTOM	X	X	X	X	51	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 15	CSTD ON TIME: 1746

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION	4 people on	beach	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: sunny, ~5 knot NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	**DATE:** 6/29/06	Page 18 of 36
STATION: F2-2	**TIME:** 1757	
TIDE STAGE: Flood	**DEPTH:** 10.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.551	**DGPS?** Circle (Y) or N	**DGPS REFERENCE STN:** WAAS
LONGITUDE (W): 150° 00.582		**COORDINATE SYSTEM:** *Nad83*

STATION LOCATION/DESCRIPTION: ~700m from outfall, N.E.

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	X	52						
MID	X	X	X	X	53	X	X	X	X	X	
BOTTOM	X	X	X	X	54	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	**CAST NO.:** 16	**CSTD ON TIME:** 1757

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, scattered clouds
3-5 knot N.W wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 17 of 36
STATION: F2-3	TIME: 1805	
TIDE STAGE: Flood	DEPTH: 12.9 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.632	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.025		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.3 km ENE 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	X	55						
MID	X	X	X	X	56	X	X	X	X	X	
BOTTOM	X	X	X	X	57	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 17	CSTD ON TIME: 1805

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE	↓		

WEATHER INFORMATION/COMMENTS:

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	**DATE:** 6/27/06	Page 25 of 36
STATION: F2-4	**TIME:** 1827	
TIDE STAGE: Flood	**DEPTH:** 8.6 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.610	**DGPS?** Circle Y or N	**DGPS REFERENCE STN:** WAAS
LONGITUDE (W): 149° 58.842		**COORDINATE SYSTEM:** *Nad83*

STATION LOCATION/DESCRIPTION: 2.2 km east of outfall

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	20	20	X	58						
MID	X	X	X	X	59	X	X	X	X	X	
BOTTOM	X	X	X	X	60	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	**CAST NO.:** 18	**CSTD ON TIME:** 1827

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 2-3 knot NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 21 of 36
STATION: F3-1	TIME: 1945	
TIDE STAGE: Flood	DEPTH: 9.7 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.344	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 01.288		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	X	61						
MID	X	X	X	X	62	X	X	X	X	X	
BOTTOM	X	X	X	X	63	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 19	CSTD ON TIME: 1945

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)			
SHEEN OR OIL			
ODOR			
RECREATION	~15 people	on beach	
WILDLIFE	none		

WEATHER INFORMATION/COMMENTS: Sunny, light wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 22 of 36
STATION: F3-2	TIME: 1952	
TIDE STAGE: Flood	DEPTH: 14.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 12.344	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150° 00.550	(Y)	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	✓	22	22	X	64						
MID	X	X	X	X	65	X	X	X	X	X	
BOTTOM	X	X	X	X	66	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 20	CSTD ON TIME: 1952

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: clear + sunny, light breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 23 of 36
STATION: F3-3	TIME: 2002	
TIDE STAGE: Flood	DEPTH: 19.6 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61°	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 150°		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: ~1.8 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		67						
MID					68						
BOTTOM					69						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 21	CSTD ON TIME: 2003

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS: clear, light breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 24 of 36
STATION: FB-4	TIME: 2012	
TIDE STAGE: Flood	DEPTH: 53.7 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61°	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149°		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: ~ 2.7 km NE of outfall 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	✓	24	24	X	70						01
MID	X	X	X	X	71	X	X	X	X	X	02
BOTTOM	X	X	X	X	72	X	X	X	X	X	03

QC SAMPLES COLLECTED: Salinity sample, surf, mid, + bottom

CSTD Seabird: 299	CAST NO.: 22	CSTD ON TIME: 2013

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 25 of 36
STATION: C1-1	TIME: 1634	
TIDE STAGE: Flood	DEPTH: 22.7 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.954'	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.084		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	✓	025	025	X	73	05	04	04	04	04	
MID	X	X	X	X	74	X	X	X	X	X	
BOTTOM	X	X	X	X	75	X	X	X	X	X	

QC SAMPLES COLLECTED: EPA 602 - MS/SD

CSTD Seabird: 799	CAST NO.: 23	CSTD ON TIME: 1633

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, 2-3 knot NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 26 of 36
STATION: C1-2	TIME: 1650	
TIDE STAGE: Flood	DEPTH: 21.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.964	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.803		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: ~300 m east of control

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	026	026		76	06	05	05/06	05	05/06	
MID					77						
BOTTOM					78						

QC SAMPLES COLLECTED: C-Station (MOA 09) – Field Blank

CSTD Seabird: 299	CAST NO.: 24	CSTD ON TIME: 1650

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, 1-2 knot NW breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 27 of 36
STATION: C1-3	TIME: 1710	
TIDE STAGE: Flood	DEPTH: 12.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.180	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 58.057		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.0 km NE of Control buoy

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	V	027	027	X	79	07	06	07	06	07	
MID	X	X	X	X	80	X	X	X	X	X	
BOTTOM	X	X	X	X	81	X	X	X	X	X	

QC SAMPLES COLLECTED: none

CSTD Seabird: 299	CAST NO.: 25	CSTD ON TIME: 1711

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 NW breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 28 of 36
STATION: C1-4	TIME: 1738	
TIDE STAGE: Flood	DEPTH: 5.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.018	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 56.380		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 3.2 km NE of drop pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	028	028	X	82						
MID	X	X	X	X	83	X	X	X	X	X	
BOTTOM	X	X	X	X	84	X	X	X	X	X	

QC SAMPLES COLLECTED: none

CSTD Seabird: 299	CAST NO.: 26	CSTD ON TIME: 1738

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, 2-3 knt NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 29 of 36
STATION: C2-1	TIME: 1835	
TIDE STAGE: Flood	DEPTH: 26.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.950	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WA45
LONGITUDE (W): 149° 59.095		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: At control drop pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	29	29		85						
MID					86						
BOTTOM					87						

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 27	CSTD ON TIME: 1835

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, 2-3 kt NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 30 of 36
STATION: C2-2	TIME: 1843	
TIDE STAGE: Flood	DEPTH: 13.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.266	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.856		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.3 km NE of drop pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	√√√	30, 31 32	30, 31 32	X	88 89 90						
MID	X	X	X	X	91	X	X	X	X	X	
BOTTOM	X	X	X	X	92	X	X	X	X	X	

QC SAMPLES COLLECTED: Field Triplicates, Triplicate CTD

CSTD Seabird: 299	CAST NO.: 28	CSTD ON TIME: 1844

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 breeze

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 31 of 36
STATION: C2-3	TIME: 1852	
TIDE STAGE: Flood	DEPTH: 10.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.618	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.006		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 2.2 km NE of control

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	33	33	X	93						
MID	X	X	X	X	94	X	X	X	X	X	
BOTTOM	X	X	X	X	95	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 29	CSTD ON TIME: 1852

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 breeze.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 32 of 36
STATION: C2-4	TIME: 1914	
TIDE STAGE: Flood	DEPTH: 44 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.103	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 54.619		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: central channel, 4.5 km NE of control drop pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	34	34	X	96						
MID	X	X	X	X	97	X	X	X	X	X	
BOTTOM	X	X	X	X	98	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 30	CSTD ON TIME: 1914

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, 3-4 knot NW wind

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 33 of 36
STATION: C3-1	TIME: 2005	
TIDE STAGE: Flood	DEPTH: 30.2 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 13.944	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 59.083		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 36 37	35 36 37	X	99, 100 101						
MID	X	X	X	X	102	X	X	X	X	X	
BOTTOM	X	X	X	X	103	X	X	X	X	X	

QC SAMPLES COLLECTED: Lab. Triplicate splits - same bottle except fecal

CSTD Seabird: 299	CAST NO.: 31	CSTD ON TIME: 2006

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION	↓		
WILDLIFE			

WEATHER INFORMATION/COMMENTS: partly cloudy 5-10 knot wind off of Pt Mackenzie, Outside drip.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 34 of 36
STATION: C3-2	TIME: 2014	
TIDE STAGE: Flood	DEPTH: 20.8 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.129	DGPS? Circle Y or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 57.790		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 1.1 km NE of Drop Pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	38	38	X	104						
MID	X	X	X	X	105	X	X	X	X	X	
BOTTOM	X	X	X	X	106	X	X	X	X	X	

QC SAMPLES COLLECTED: none

CSTD Seabird: 299	CAST NO.: 32	CSTD ON TIME: 2014

STANDARD OBSERVATIONS

PARAMETER	TYPE	SOURCE	EXTENT OR NUMBER
FLOATING MATERIAL	none		
FOAM (other than trace)	↓		
SHEEN OR OIL			
ODOR			
RECREATION			
WILDLIFE			

WEATHER INFORMATION/COMMENTS:

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 35 of 36
STATION: C3-3	TIME: 2025	
TIDE STAGE: Flood	DEPTH: 23.0 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 14.743	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 55.861		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: 3.3 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	✓	39	39	X	107						
MID	X	X	X	X	108	X	X	X	X	X	
BOTTOM	X	X	X	X	109	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 33	CSTD ON TIME: 2025

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, 3-4 knot NW wind.

KINNETIC LABORATORIES, INC.
HYDROGRAPHIC FIELD LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 36 of 36
STATION: C3-4	TIME: 2040	
TIDE STAGE: Flood	DEPTH: 60 Feet (Meters) Fathoms (Circle unit)	

NAVIGATIONAL INFORMATION

LATITUDE (N): 61° 15.542	DGPS? Circle (Y) or N	DGPS REFERENCE STN: WAAS
LONGITUDE (W): 149° 53.847		COORDINATE SYSTEM: *Nad83*

STATION LOCATION/DESCRIPTION: mid channel, off of Cairn pt.

SAMPLE COLLECTION INFORMATION (Record suffix of SAMPID for each sample collected.)

DEPTH	ANALYSIS TYPE										
	TRC	FECAL	COLOR	DO	TURB/ pH	EPA 602	PAH	TSS	METALS	CYANIDE	SAL (QC)
SURFACE	✓	40	40	X	110						
MID	X	X	X	X	111	X	X	X	X	X	
BOTTOM	X	X	X	X	112	X	X	X	X	X	

QC SAMPLES COLLECTED:

CSTD Seabird: 299	CAST NO.: 34	CSTD ON TIME: 2040

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

KINNETIC LABORATORIES, INC.
FECAL COLIFORM COLLECTION LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 1 of 1
TIDE STAGE: Flood		

DGPS REFERENCE STATION INFORMATION

STATION: Interfidal	COORDINATE SYSTEM: *Nad83* WAAS
LATITUDE (N):	LONGITUDE (W):

STATION	REP	TIME	SAMPLE ID MOA06FEC___	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
IT-7	1	2012	FEC054				
IT-7	2	2017	FEC053				
IT-6	2	2020	MANAGER 52				
IT-6	1	2020	51				
[illegible]	[illegible]	[illegible]	49				
[illegible]	[illegible]	[illegible]	50				
[illegible]	[illegible]	2030	47				
[illegible]	[illegible]	2030	48				
IT-3	1	2049	45				
IT-3	2	2049	46				
IT-2	1	2039	43				
IT-2	2	2039	44				
IT-1	1	2043	41				
IT-1	2	2042	42				
IT-C	1	2118	MANAGER 55				
IT-C	2	2118	FEC 56				

Reviewed By: M Anna Date: 10/12/06

Record Y or N for differential fix in DGPS column.

KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 1 of 9
RELEASE POINT: ZID	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
STATION: Ebb-1	COORDINATE SYSTEM: *Nad83* WAAS
LATITUDE (N):	LONGITUDE (W):

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
0932		61° 12.338	150° 01.287	*	E1-1
0942		12.306	02.092		E1-2
0954		12.007	02.977		
1010		11.639	04.154		E1-3
1027		11.270	05.558		
1036		11.107	06.306		E1-4
1043		10.953	07.219		picked drogue

Reviewed By: [signature] Date: 10/12/06

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

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KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/27/06	Page 2 of 9
RELEASE POINT: ZID	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
STATION: E2 Drogue	COORDINATE SYSTEM: *Nad83* WAAS
LATITUDE (N):	LONGITUDE (W):

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1114		61° 12.344	150° 01.294	x	E2-1
1120		12.278	01.991		E2-2
1128		12.058	03.012		E2-3
1134		11.952	03.331		
1139		11.820	03.660		
1146		11.656	04.037		
1154		11.485	04.456		E2-4
1205		11.263	05.007		
1215		11.083	05.566		
1222		10.981	06.020		
1229		10.904	06.504		
1239		10.831	07.255		
1246		10.804	07.760		pick up

Reviewed By: M Hamm Date: 10/12/06

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 2006*	DATE: 6/27/06	Page 3 of 9
RELEASE POINT: ZID	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
STATION: E3	COORDINATE SYSTEM: *Nad83* WAAS	
LATITUDE (N):	LONGITUDE (W):	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1314		61° 12.342	150° 01.276	*	E3-1
1321		12.278	01.852		
1324		12.241	01.981		E3-2
1329		12.159	02.194		
1352		11.758	02.245		E3-3
1403		11.526	02.455		
1411		11.372	02.731		E3-4
1417		11.307	03.002		
1421		11.276	03.255		
1428		11.274	03.620		
1433		11.289	03.888		
1436		11.282	04.058		picked drogue

Reviewed By: M Anson Date: 10/12/06

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 2006*	DATE: 6/27/06	Page 4 of 9
RELEASE POINT: F1 - outfall	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
STATION: F1	COORDINATE SYSTEM: *Nad83* WAAS
LATITUDE (N):	LONGITUDE (W):

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1603		61° 12.340	150° 01.303	*	F1-1
1619		12.403	01.272		
1625		12.443	01.064		
1635		12.441	00.589		F1-2
1650		12.358	149° 59.939		F1-3
1708		12.197	59.142		
1711		12.190	59.042		
1716		12.172	58.954		F1-4
1720		12.162	58.860		
1727		12.136	58.779		picked drogue

Reviewed By: M Anderson Date: 10/12/06

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 2006*	DATE: 6/27/06	Page 5 of 9
RELEASE POINT: outfall	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
STATION: F2	COORDINATE SYSTEM: *Nad83* WAAS	
LATITUDE (N):	LONGITUDE (W):	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1746		61° 12.346	150° 01.263	x	F2-1
1751		12.454	00.948	x	
1757		12.551	00.582	x	F2-2
1801		12.612	00.222		
1805		12.632	00.025		F2-3
1814		12.633	149° 59.456		
1827		12.610	58.842		F2-4
1832		12.572	58.662		
1841		12.543	58.451		
1853		12.502	58.271		pick up drogue

Reviewed By: M Linn Date: 10/12/06

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 2006*	DATE: 6/27/06	Page 6 of 9
RELEASE POINT: outfall	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
STATION: F3	COORDINATE SYSTEM: *Nad83* WAAS	
LATITUDE (N):	LONGITUDE (W):	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1945		61° 12.344	150° 01.288		F3-1
1952		12.621	00.550		F3-2
2000		12.816	149° 59.846		
2002		12.832	59.775		F3-3
2008		12.994	59.305		
2012		13.094	59.029		F3-4
2020		13.266	58.476		
2031		13.440	57.765		
2042		13.633	56.712		
2049		13.786	55.980		
2057		13.996	55.412		
2104		14.289	54.927		
2114		14.704	54.484		picked drogue

Reviewed By: M Amm Date: 10/12/06

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 2006*	DATE: 6/28/06	Page 7 of 9
RELEASE POINT: Control	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
STATION: C1	COORDINATE SYSTEM: *Nad83* WAAS
LATITUDE (N): WAAS	LONGITUDE (W):

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1634		61° 13.954	149° 59.084		C1-1
1642		13.951	58.960		
1650		13.964	58.803		C1-2
1702		14.022	58.366		
1710		14.180	58.057		C1-3
1726		14.673	57.382		
1738		15.018	56.380		C1-4
1744		15.163	55.893		
1803		15.392	55.430		
1810		15.300	55.471		
1813		15.324	55.407		
1817		15.319	58.432		picked drogue

Reviewed By: M Thomson Date: 10/12/06

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 2006*	DATE: 6/28/06	Page 8 of 9
RELEASE POINT: Control	NUMBER RELEASED: 1	

DGPS REFERENCE STATION INFORMATION	
STATION: C2	COORDINATE SYSTEM: *Nad83* NAAS
LATITUDE (N):	LONGITUDE (W):

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
1835		61° 13.950	149° 59.095		C2-1
1843		14.266	57.856		C2-2
1852		14.618	57.006		C2-3
1857		14.921	56.537		
1909		14.895	55.271		
1914		15.103	54.619		C2-4
1920		15.428	54.025		
1925		15.651	53.686		
1930		15.903	53.386		
1938		16.387	53.158		picked drogue

Reviewed By: M Amm Date: 10/12/06

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set

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KINNETIC LABORATORIES, INC.
DROGUE TRACKING LOG

STUDY: *Pt. Woronzof NPDES 2006*	DATE: 6/28/06	Page 9 of 9
RELEASE POINT: Control	NUMBER RELEASED: 1	
DGPS REFERENCE STATION INFORMATION		
STATION: C3	COORDINATE SYSTEM: *Nad83* WAAS	
LATITUDE (N):	LONGITUDE (W):	

TIME	DROGUE NO.	LATITUDE (N)	LONGITUDE (W)	DGPS*	COMMENTS
2005		61° 13.944	149° 59.083		C3-1
2014		14.129	59.790		C3-2
2019		14.466	56.786		
2025		14.743	55.861		C3-3
2032		15.086	54.802		
2040		15.542	53.847		C3-4
2045		15.855	53.687		
2056		16.454	53.396		
2105		16.861	53.300		pickup drogue

Reviewed By: M Amon Date: 10/12/06

Record Y or N for differential fix in DGPS column.
Minus sign (-) indicates end of observation set