

Laboratory Report
Report ID: 105990



**Sierra
Environmental
Monitoring, Inc.**

Stillwater Sciences
Attn: Noah Hume
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Date: 6/14/2010
Client: STW-90902
Taken by: Reymann/Lever
PO #: 398.01/1330

Dear Noah Hume,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

A handwritten signature in black ink, appearing to read "John C. Seher", is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

Date:

6/14/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.



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Date: 6/14/2010
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Taken by: Reymann/Leverii
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Analysis Report

Sample ID: S201005-1532 **Customer Sample ID:** R1 **Date Sampled:** 5/27/2010 **Time Sampled:** 11:05 AM **Date Received:** 5/28/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	11	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	0.4	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	6.1	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	<0.02	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	<0.02	mg/L	0.02	Kobza	6/3/2010	

Sample ID: S201005-1533 **Customer Sample ID:** EM1 **Date Sampled:** 5/27/2010 **Time Sampled:** 12:10 PM **Date Received:** 5/28/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.1	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	44	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	0.9	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	6.2	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	0.43	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	0.93	mg/L	0.04	Kobza	6/3/2010	

John Kobza, Ph.D.
 Laboratory Director

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John C. Seher
 Special Consultant
 Quality Assurance Manager



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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201005-1534	EM2	5/27/2010	12:50 PM	5/28/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Ammonia-N	EPA 350.3	0.2	mg/L N	0.1	Pacheco	6/8/2010	
					Chlorophyll a	SM 10200 H	15	ug/L	2	Keller	6/9/2010	
					Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.0	mg/L N	0.1	Pacheco	6/3/2010	
					Nitrate-N - Ion Chromatography	EPA 300.0	11	mg/L N	0.5	Faulstich	5/28/2010	
					Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
					Phosphorus - Ortho	EPA 365.3	2.3	mg/L	0.2	Kobza	5/28/2010	
					Phosphorus - Total	EPA 365.3	2.4	mg/L	0.1	Kobza	6/3/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201005-1535	EU1	5/27/2010	11:40 AM	5/28/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	6/8/2010	
					Chlorophyll a	SM 10200 H	84	ug/L	2	Keller	6/9/2010	
					Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.6	mg/L N	0.1	Pacheco	6/3/2010	
					Nitrate-N - Ion Chromatography	EPA 300.0	5.6	mg/L N	0.5	Faulstich	5/28/2010	
					Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
					Phosphorus - Ortho	EPA 365.3	0.27	mg/L	0.02	Kobza	5/28/2010	
					Phosphorus - Total	EPA 365.3	0.76	mg/L	0.04	Kobza	6/3/2010	



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Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201005-1536	EU2	5/27/2010	10:20 AM	5/28/2010	Reporting Limit	Analyst	Date Analyzed
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	46	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.3	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.4	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	0.23	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	0.64	mg/L	0.04	Kobza	6/9/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201005-1537	EU3	5/27/2010	12:30 PM	5/28/2010	Reporting Limit	Analyst	Date Analyzed
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.4	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	<2	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	0.7	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	13	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	2.5	mg/L	0.2	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	2.6	mg/L	0.2	Kobza	6/9/2010	

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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201005-1538	EL1	5/27/2010	1:10 PM	5/28/2010	Reporting Limit	Analyst	Date Analyzed
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	46	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.2	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.7	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	0.18	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	0.71	mg/L	0.04	Kobza	6/9/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201005-1539	EL2	5/27/2010	1:20 PM	5/28/2010	Reporting Limit	Analyst	Date Analyzed
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.4	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	13	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.4	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.6	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	0.22	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	0.80	mg/L	0.04	Kobza	6/9/2010	



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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201005-1540	EU1 DUP	5/27/2010	11:40 AM	5/28/2010	Reporting Limit	Analyst	Date Analyzed
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	6/8/2010	
Chlorophyll a	SM 10200 H	55	ug/L	2	Keller	6/9/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.9	mg/L N	0.1	Pacheco	6/3/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.5	mg/L N	0.5	Faulstich	5/28/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	5/28/2010	
Phosphorus - Ortho	EPA 365.3	0.27	mg/L	0.02	Kobza	5/28/2010	
Phosphorus - Total	EPA 365.3	0.67	mg/L	0.04	Kobza	6/9/2010	

Data Flag Legend:

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Quality Control Report

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Ammonia-N	94.0	110.0	107.0	2.76	<0.1 mg/L
Chlorophyll a					
Kjeldahl Nitrogen - Digestion/Anal	112.0	90.0	94.0	4.35	<0.1 mg/L
Nitrate-N - Ion Chromatography	97.0	103.0	105.0	1.92	<0.05 mg/L
Nitrite-N - Ion Chromatography	105.0	111.0	113.0	1.79	<0.05 mg/L
Phosphorus - Ortho	9.0	94.0	94.0	0.00	<0.02 mg/L
Phosphorus - Total	98.0	89.0	90.0	0.00	<0.02 mg/L
Phosphorus - Total	86.0	102.0	119.0	0.00	<0.02 mg/L

Legend: *LCS- Laboratory Control Standard* *MS- Matrix Spike* *MSD- Matrix Spike Duplicate*
RPD- Relative Percent Difference



105490

Address: 2855 Telegraph Ave, #400 Phone/Fax #: 510-848-8098
 City: Berkeley State: CA Zip: 94705 Report Attention: Noah Hume
 M. Reymann Sampled by: G. Leuschke Signature: [Signature]
 Date Sampled: 5/27/10 Time Sampled: 1105 Sample Type: R1 Preservative: See Key Below
 Number of Containers: 5
 TKN, NH3, NO3: X
 NO2: X
 Total Phosphorus: X
 Ortho-Phosphate: X
 Chlorophyll a: X
 Turnaround Time: Standard: 24 Hr, Rush: 48 Hr, Other: _____
 Compliance Monitoring: Yes: _____, No: _____
 Lab Use Only Sub-Sample pH: <2, >12

Date	Time	Sample Type	Sample Identification	Preservative*	Number of Containers	TKN, NH3, NO3	NO2	Total Phosphorus	Ortho-Phosphate	Chlorophyll a	Remarks	Time
5/27/10	1105	2	R1	6.4	5	X	X	X	X	X	PLEASE PROVIDE RESULTS IN PDF (Excel) AND CND (Excel) FOR USE IN LST.	1500
	1210	2	EM1	6.4	5	X	X	X	X	X		
	1250	2	EM2	6.4	5	X	X	X	X	X		
	1140	2	EU1	6.4	5	X	X	X	X	X		
	1020	2	EU2	6.4	5	X	X	X	X	X		
	1230	2	EU3	6.4	5	X	X	X	X	X		
	1310	2	EU1	6.4	5	X	X	X	X	X		
	1320	2	EU2	6.4	5	X	X	X	X	X		
	1140	2	EU-1 Dup	6.4	5	X	X	X	X	X	NOTES: 1 from LST.	

Relinquished By: [Signature] Print Name: Mike Reymann Company: Stillwater Date: 5/27/10 Time: 1500
 Received By: [Signature]
 Relinquished By: [Signature]
 Received By: [Signature]
 Relinquished By: [Signature]
 Received By: [Signature] Print Name: Jim Austin Company: [Signature] Date: 5-28-10 Time: 1008

Custody Seal Intact: Yes ___ No ___ None ___
 Sample Temperature: Degrees C ___
 Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The analytical results associated with this COC apply only to the samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.
 Terms: Net thirty days on approved credit.
 *KEY: Sample Type: 1=Drinking Water, 2=Surface Water, 3=Ground Water, 4=Waste Water, 5=Soil, 6=RCRA, 7=Other Preservative: 1=NaOH, 2=NaOH + ZNOAC, 3=HNO3, 4=H2SO4, 5=Na2SS2O3, 6=None, 7=Other

* Bottles for Duplicate say "EU-1 Dup", not EU-2 Dup -5/28/10