

Laboratory Report
Report ID: 100687



**Sierra
Environmental
Monitoring, Inc.**

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

Date: 9/15/2009
Client: STW-90902
Taken by: M. Reymann
PO #: 39801/1330

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:

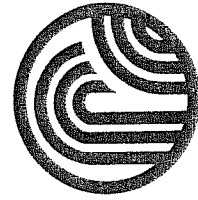
A handwritten signature in black ink, appearing to read "John Kobza", is written over a horizontal line. Below the line, the text "Sierra Environmental Monitoring, Inc." is printed.

Sierra Environmental Monitoring, Inc.

Date:

9/15/2009

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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Analysis Report

Sample ID: S200909-0139 **Customer Sample ID:** EL 2 **Date Sampled:** 9/1/2009 **Time Sampled:** 4:05 PM **Date Received:** 9/2/2009

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.4	mg/L N	0.1	Pacheco	9/10/2009	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.5	mg/L N	0.1	Pacheco	9/9/2009	
Nitrate-N - Ion Chromatography	EPA 300.0	2.9	mg/L N	0.05	Faulstich	9/2/2009	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009	
NO3 + NO2	EPA 300.0	2.9	mg/L N	0.1	Faulstich	9/2/2009	
Phosphorus - Ortho	EPA 365.3	0.25	mg/L	0.02	Van Ry	9/2/2009	
Phosphorus - Total	EPA 365.3	0.75	mg/L	0.04	Van Ry	9/8/2009	J1

Sample ID: S200909-0140 **Customer Sample ID:** EL 2 (dup) **Date Sampled:** 9/1/2009 **Time Sampled:** 11:05 AM **Date Received:** 9/2/2009

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.5	mg/L N	0.1	Pacheco	9/10/2009	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.5	mg/L N	0.1	Pacheco	9/9/2009	
Nitrate-N - Ion Chromatography	EPA 300.0	2.9	mg/L N	0.05	Faulstich	9/2/2009	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009	
NO3 + NO2	EPA 300.0	2.9	mg/L N	0.1	Faulstich	9/2/2009	
Phosphorus - Ortho	EPA 365.3	0.25	mg/L	0.02	Van Ry	9/2/2009	
Phosphorus - Total	EPA 365.3	0.67	mg/L	0.04	Van Ry	9/8/2009	J1



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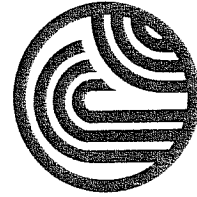
Stillwater Sciences
 Attn: Noah Hume
 2855 Telegraph Ave., Suite 400
 Berkeley, CA 94705

Date: 9/15/2009
Client: STW-90902
Taken by: M. Reymann
PO #: 39801/1330

Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0141	EL 1	9/1/2009	11:25 AM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	0.6	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.8	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	3.0	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	3.0	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	0.28	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	0.67	mg/L	0.04	Van Ry	9/8/2009	J1	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0142	EM 2	9/1/2009	11:55 AM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	0.7	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	1.6	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	11	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	11	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	2.2	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	2.7	mg/L	0.2	Van Ry	9/8/2009	J1	



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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0143	EU 3	9/1/2009	12:10 PM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	0.9	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.6	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	16	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	16	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	3.0	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	3.2	mg/L	0.4	Van Ry	9/8/2009	J1	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0144	EM 1	9/1/2009	12:30 PM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	0.3	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.3	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	3.4	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	3.4	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	0.35	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	0.60	mg/L	0.04	Van Ry	9/8/2009	J1	



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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0145	EU 1	9/1/2009	1:00 PM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	0.1	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.5	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	2.7	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	2.7	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	0.20	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	0.67	mg/L	0.04	Van Ry	9/8/2009	JI	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S200909-0146	EU 2	9/1/2009	1:15 PM	9/2/2009	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag	
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	9/10/2009		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.1	mg/L N	0.1	Pacheco	9/9/2009		
Nitrate-N - Ion Chromatography	EPA 300.0	2.9	mg/L N	0.05	Faulstich	9/2/2009		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009		
NO3 + NO2	EPA 300.0	2.9	mg/L N	0.1	Faulstich	9/2/2009		
Phosphorus - Ortho	EPA 365.3	0.21	mg/L	0.02	Van Ry	9/2/2009		
Phosphorus - Total	EPA 365.3	0.51	mg/L	0.04	Van Ry	9/8/2009	JI	

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Analysis Report

Sample ID: S200909-0147	Customer Sample ID R 1	Date Sampled 9/1/2009	Time Sampled 1:45 PM	Date Received 9/2/2009
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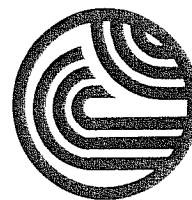
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	9/10/2009	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	1.1	mg/L N	0.1	Pacheco	9/9/2009	
Nitrate-N - Ion Chromatography	EPA 300.0	3.3	mg/L N	0.05	Faulstich	9/2/2009	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.05	mg/L N	0.05	Faulstich	9/2/2009	
NO3 + NO2	EPA 300.0	3.3	mg/L N	0.1	Faulstich	9/2/2009	
Phosphorus - Ortho	EPA 365.3	<0.02	mg/L	0.02	Van Ry	9/2/2009	
Phosphorus - Total	EPA 365.3	0.05	mg/L	0.02	Van Ry	9/8/2009	J1

Data Flag Legend:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

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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	96.0	97.0	97.0	0.00	<0.1 mg/L
Kjeldahl Nitrogen - Digestion/Anal	107.0	102.0	104.0	1.94	<0.1 mg/L
Nitrate-N - Ion Chromatography	100.0	97.0	98.0	1.06	<0.05 mg/L
Nitrite-N - Ion Chromatography	99.0	118.0	119.0	0.84	<0.05 mg/L
NO3 + NO2					
Phosphorus - Ortho	97.0	101.0	106.0	1.10	<0.02 mg/L
Phosphorus - Total	96.0	41.0	44.0	15.05	<0.02 mg/L

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

SIERRA ENVIRONMENTAL MONITORING, INC.
 1135 FINANCIAL BOULEVARD - RENO - NEVADA - 89502



PHONE: (775) 857 - 2400 FAX: (775) 857 - 2404 E-Mail sem@sem-analytical.com
 DATE: 01/28/09 BY: JKL

CHAIN OF CUSTODY RECORD

100687

Client Name: *Stillwater Services* Purchase Order: *57851/1330* Analyses Requested: _____ Turnaround Time: _____ Compliance Monitoring: Yes: ___ No: ___

Address: *2855 Telegraph Ave Sk 400* Phone/Fax #: *530 848 8098 x129*

City: *Bendville CA 94705* State: _____ Zip: _____ Report Attention: *NOAH HUME STILLWATER SERVICES*

Sampled by: *Mike Reymann* Signature: _____

Date Sampled	Time Sampled	Sample Type *	Sample Identification	Preservative* See Key Below	Number of Containers	Remarks	Lab Use Only Sub-Sample pH
1/1	1005	2	EL2 (COOP)	4/12	2		<2
1/1	1105	1	EL2 (COOP)		2		>12
1/1	1125	1	EL1		2		
1/1	1155	1	EW2		2		
1/1	1200	1	EU3		2		
1/1	1230	1	BH1		2		
1/1	1300	1	EU1		2		
1/1	1330	1	EU2		2		
1/1	1450	1	R1		2		

Relinquished By: *Mike Reymann* Signature: _____ Print Name: _____ Company: *Stillwater Services* Date: *9-1-09* Time: *10:02*

Received By: _____ Signature: _____

Relinquished By: _____ Signature: _____

Received By: _____ Signature: _____

Relinquished By: *FEA Eye* Signature: *849 909 5801*

Received By: *FEA SA* Signature: *Guastale* Date: *9/2/09* Time: *10:15*

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=Na2S2O3, 6=None, 7=Other
 SEM COC Form Revised 02/01