

**ASSOCIATED LABORATORIES**  
806 North Batavia - Orange, California 92868 - 714/771-6900

**FAX 714/538-1209**

CLIENT Stetson Engineers Inc. (10442)  
ATTN: Ken Reich  
861 Village Oaks  
Suite 100  
Covina, CA 91724

LAB REQUEST 201131

REPORTED 11/26/2007

RECEIVED 11/14/2007

PROJECT #2258 Lower SMR Watershed

SUBMITTER Client

COMMENTS Revised report on 01/17/2008.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

**Order No.**

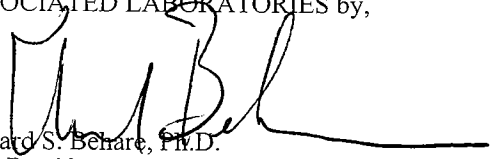
848616  
848617

**Client Sample Identification**

#11044350 Sandia Creek  
Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

  
Edward S. Benare, Ph.D.  
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

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**TESTING & CONSULTING**  
Chemical  
Microbiological  
Environmental

Order #: 848616 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 11/14/2007

Time Sampled: 11:30

Sampled By: J.Barnard/K.Reich

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	0.169	1	0.030	0.013	mg/L	11/20/07 KN
200.7	Beryllium	0.001	1	0.001	0.001	mg/L	11/20/07 KN
200.7	Boron	0.169	1	0.050	0.007	mg/L	11/20/07 KN
200.7	Calcium	122	1	0.10	0.004	mg/L	11/20/07 KN
200.7	Iron	0.258	1	0.02	0.002	mg/L	11/20/07 KN
200.7	Manganese	0.016	1	0.010	0.001	mg/L	11/20/07 KN
200.7	Sodium	116	1	0.50	0.12	mg/L	11/20/07 KN
200.7	Zinc	0.012	1	0.010	0.002	mg/L	11/20/07 KN
200.8	Antimony	0.0006 J	1	0.002	0.0004	mg/L	01/16/08 NVK
200.8	Arsenic	0.0010 J	1	0.002	0.0006	mg/L	01/16/08 NVK
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	01/16/08 NVK
200.8	Chromium	0.0019 J	1	0.005	0.0006	mg/L	01/16/08 NVK
200.8	Copper	0.017	1	0.005	0.0002	mg/L	01/16/08 NVK
200.8	Lead	ND	1	0.005	0.0001	mg/L	01/16/08 NVK
200.8	Nickel	0.0037 J	1	0.005	0.0003	mg/L	01/16/08 NVK
200.8	Selenium	0.0037	1	0.002	0.0003	mg/L	01/16/08 NVK
200.8	Silver	ND	1	0.005	0.0001	mg/L	01/16/08 NVK
200.8	Thallium	ND	1	0.001	0.0001	mg/L	01/16/08 NVK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	11/19/07 LN
2130B	Turbidity	0.65	1	0.1	0.0	NTU	11/15/07 AE
2320B	Bicarbonate	214	1	5.0	1.0	mg/L	11/19/07 HK
2510B	Specific Conductance	1550	1	1.0	0.86	umhos/c	11/15/07 LN
2540C	Total Dissolved Solids	1080	1	10.0	5.7	mg/L	11/15/07 LN

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 848616 Client Sample ID: #11044350 Sandia Creek

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Time Sampled: 11:30

Sampled By: J.Barnard/K.Reich

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Chloride	205	5	5.0	0.1	mg/L	11/15/07 WW
300.0	Nitrate (as N)	3.9	1	0.1	0.016	mg/L	11/15/07 WW
300.0	Nitrite (as N)	ND	1	0.1	0.018	mg/L	11/15/07 WW
300.0	Sulfate	323	5	5.0	0.17	mg/L	11/15/07 WW
335.4	Cyanide	0.005 J	1	0.01	0.001	mg/L	11/19/07 TP
350.1	Ammonia -N	0.095 J	1	0.1	0.01	mg/L	11/19/07 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.24 J	1	0.4	0.06	mg/L	11/16/07 TP
4500-F C	Fluoride	0.31	1	0.05	0.004	mg/L	11/16/07 CM
4500-H	pH	8.07	1			NA	11/14/07 MS
4500-P-B.5-E	Total Phosphorus as P	0.04	1	0.02	0.01	mg/L	11/19/07 DK
4500-P-E	Ortho Phosphate as P	0.036	1	0.02	0.005	mg/L	11/15/07 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	11/15/07 LT
5540C	MBAS	0.03 J	1	0.04	0.02	mg/L	11/16/07 HK
7470A	Mercury	ND	1	0.0004	0.00005	mg/L	11/20/07 MDJ
9221	Coliform by MTF, Total	23	1			MPN/10	11/14/07 RG

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
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Time Sampled: 11:30

Sampled By: J.Barnard/K.Reich

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
5310B	Total Organic Carbon	2.5	1	0.5	0.3	mg/L	11/16/07 QP

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**ASSOCIATED LABORATORIES**

Analytical Results Report

Lab Request 201131 results, page 3 of 5



Order #: 848617

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Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	ND	1	0.030	0.013	mg/L	11/20/07 KN
200.7	Beryllium	ND	1	0.001	0.001	mg/L	11/20/07 KN
200.7	Boron	ND	1	0.050	0.007	mg/L	11/20/07 KN
200.7	Calcium	ND	1	0.10	0.004	mg/L	11/20/07 KN
200.7	Iron	ND	1	0.02	0.002	mg/L	11/20/07 KN
200.7	Manganese	ND	1	0.010	0.001	mg/L	11/20/07 KN
200.7	Sodium	ND	1	0.50	0.12	mg/L	11/20/07 KN
200.7	Zinc	ND	1	0.010	0.002	mg/L	11/20/07 KN
200.8	Antimony	ND	1	0.002	0.0004	mg/L	01/16/08 NVK
200.8	Arsenic	ND	1	0.002	0.0006	mg/L	01/16/08 NVK
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	01/16/08 NVK
200.8	Chromium	ND	1	0.005	0.0006	mg/L	01/16/08 NVK
200.8	Copper	ND	1	0.005	0.0002	mg/L	01/16/08 NVK
200.8	Lead	ND	1	0.005	0.0001	mg/L	01/16/08 NVK
200.8	Nickel	ND	1	0.005	0.0003	mg/L	01/16/08 NVK
200.8	Selenium	ND	1	0.002	0.0003	mg/L	01/16/08 NVK
200.8	Silver	ND	1	0.005	0.0001	mg/L	01/16/08 NVK
200.8	Thallium	ND	1	0.001	0.0001	mg/L	01/16/08 NVK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	11/19/07 LN
2130B	Turbidity	ND	1	0.1	0.0	NTU	11/15/07 AE
2320B	Bicarbonate	ND	1	5.0	1.0	mg/L	11/19/07 HK
2510B	Specific Conductance	0.52	1	1.0	0.86	umhos/c	11/15/07 LN
2540C	Total Dissolved Solids	ND	1	10.0	5.7	mg/L	11/15/07 LN

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
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**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 848617

Client Sample ID: Laboratory Method Blank

Matrix: WATER

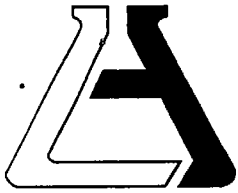
Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Chloride	ND	1	1.0	0.1	mg/L	11/15/07 WW
300.0	Nitrate (as N)	ND	1	0.1	0.016	mg/L	11/15/07 WW
300.0	Nitrite (as N)	ND	1	0.1	0.018	mg/L	11/15/07 WW
300.0	Sulfate	ND	1	1.0	0.17	mg/L	11/15/07 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	11/15/07 TP
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	11/19/07 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	11/16/07 TP
4500-F C	Fluoride	ND	1	0.05	0.004	mg/L	11/16/07 CM
4500-H	pH	6.73	1			NA	11/14/07 LN
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	11/19/07 DK
4500-P-E	Ortho Phosphate as P	ND	1	0.02	0.005	mg/L	11/15/07 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	11/15/07 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	11/16/07 HK
7470A	Mercury	ND	1	0.0004	0.00005	mg/L	11/20/07 MDJ
5310B	Total Organic Carbon	ND	1	0.5	0.3	mg/L	11/16/07 QP

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**ASSOCIATED LABORATORIES**

Analytical Results Report





# ASSOCIATED LABORATORIES **PRIORITY**

DATE OF REQUEST: <u>1/15/08</u>					CLIENT NAME: <u>Statson</u>				
LAB #(s):					ORDER #(s):				
EDIT: _____ ADDITIONAL ANALYSIS: <input checked="" type="checkbox"/>					REGULAR TAT: _____ RUSH: <input checked="" type="checkbox"/>				
MICRO	CHEM	GASC	ICP/AA	PEST/ SVOA	VOA	BIO	TOC/ RAD	PREP	OUT
LR 201131 <sup>SB</sup> OR# 616 ADD Antimony, As, Ca, Cr, Cu, pb, Ni, Se, Ag, Tl by 200.8									
LR 201139 OR# 642 ADD Sb, As, Ca, Cr, Cu, pb, Ni, Se, Ag, Tl by 200.8									
LR 201143 OR# 647, ADD As, Cu, pb, Tl by 200.8.									
NDED RESULTS ON 1/16 !!									
<b>PRIORITY</b>									

REQUESTOR: KW

**Danielle Roberts**

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**From:** Ken Reich [kenr@stetsonengineers.com]  
**Sent:** Tuesday, January 15, 2008 10:41 AM  
**To:** Danielle Roberts; Kristen Walker  
**Cc:** Scott Thomas; Natalie Schommer; Joel Barnard  
**Subject:** Lower Santa Margarita River October Samples

Danielle, certain metals need to be re-run by ICP-MS according to the attached SMR QAPP table previously reviewed and approved by Associated:

**Order No. 848616 #11044350 Sandia Creek:** Antimony, Arsenic, Cadmium, total Chromium, Copper, Lead, Nickel, Selenium, Silver, Thallium

**Order No. 848642 #11044300 SMR Fallbrook:** Antimony, Arsenic, Cadmium, total Chromium, Copper, Lead, Nickel, Selenium, Silver, Thallium

**Order No. 848647 #11044000 SMR Temecula:** Arsenic, Copper, Lead, Thallium

We will need revised reports as quickly as possible. Please refer to the QA/QC table for the appropriate methods and reporting limits for all SMR analyses. Thanks.

Ken

1/15/2008