

**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 205314

REPORTED 02/01/2008

RECEIVED 01/21/2008

PROJECT #2258  
Lower SMR Watershed

SUBMITTER Client

#### COMMENTS

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.**

866684

866686

**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. Behare, Ph.D.  
Vice President

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

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

**TESTING & CONSULTING**  
Chemical  
Microbiological  
Environmental

Order #: 866684 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 01/21/2008

Time Sampled: 09:45

Sampled By: J. Barnard/ K. Reich

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	ND	1	1.0		mg/M3	01/22/08 HK
2510B	Specific Conductance	1710	1	1.0	0.86	umhos/c	01/23/08 AE
300.0	Nitrate (as NO3)	27.4	1	0.44	0.07	mg/L	01/22/08 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	01/22/08 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	01/24/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	01/24/08 TP
4500-H	pH	8.08	1			NA	01/21/08 JM
4500-O G	Dissolved Oxygen	7.91	1			mg/L	01/21/08 ht
4500-P-B.5-E	Total Phosphorus as P	0.05	1	0.02	0.01	mg/L	01/24/08 DK
4500-P-E	Ortho Phosphate as PO4	0.10	1	0.06	0.015	mg/L	01/23/08 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	01/21/08 LT

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 #: 866686

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2510B	Specific Conductance	0.85	1	1.0	0.86	umhos/c	01/23/08 AE
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	01/22/08 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	01/22/08 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	01/24/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	01/24/08 TP
4500-H	pH	6.39	1			NA	01/21/08 LN
4500-O G	Dissolved Oxygen	9.49	1			mg/L	01/21/08 HT
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	01/24/08 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	01/23/08 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	01/21/08 LT

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

Lab Request 205314 results, page 2 of 2



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: January 21, 2008

Analysis Date: January 26, 2008

Lab ID#'s in Batch: LR205315

Reporting Units = mg/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP. BLANK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
BOD	405.1	ND	211.70	200	106	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES  
QA REPORT FORM - INORGANICS**

QC Sample: 205312

Matrix: WATER

Prep. Date: 01/23/08

Analysis Date: 01/23/08

Lab ID#'s in Batch: 205312, 205313, 205314, 205315, 205316

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Ortho-Phosphate (as PO4)	365.2	ND	1.53	1.53	1.56	100	102	2
Ortho-Phosphate (as P)	365.2	0.00	0.50	0.50	0.51	100	102	2

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate  
 %REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 75 - 125
RPD LIMITS = 20

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Ortho-Phosphate (as PO4)	365.2	ND	0.99	1.00	99	80%	120%
Ortho-Phosphate (as P)	365.2	ND	0.32	0.33	99	80%	120%

Value = Preparation Blank Value; ND = Not-Detected  
 LCS Result = Lab Control Sample Result  
 True = True Value of LCS  
 L.Limit / H.Limit = LCS Control Limits

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample : 205253-866401-08

Matrix: WATER

Prep. Date: 01/22/08

Analysis Date: 01/22/08

Lab ID#'s in Batch: 205253, 205202, 205312, 205313, 205314, 205315, 205316

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units : mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
CL	300.0	30.5	200	225	224	97	97	0
SO4	300.0	39	200	231	227	96	94	2
NO3	300.0	ND	100	102	99	102	99	4
NO2	300.0	ND	100	98.9	96.2	99	96	3

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%Rec Limits = 80 - 120

RPD Limits = 20

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
CL	300.0	ND	40.2	40	100	90%	110%
SO4	300.0	ND	39.5	40	99	90%	110%
NO3	300.0	ND	20.9	20	105	90%	110%
NO2	300.0	ND	9.7	10	97	90%	110%

VALUE = Preparation Blank Value; ND = Not-Detected

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample: 205245-866365

Matrix: WATER

Prep. Date: 01/24/08

Analysis Date: 01/30/08

Lab ID#'s in Batch: 205245, 205312, 205313, 205314, 205315, 205316, 205372, 205373, 205374, 205375

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
NH3-N	350.1	1.16	5.00	6.22	6.22	101	101	0

*ND = Not Detected*

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

*%REC LIMITS = 80 - 120*

*RPD LIMITS = 20*

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	4.83	5.00	97	80%	120%

*Value = Preparation Blank Value*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

# ASSOCIATED LABORATORIES QA REPORT FORM

QC Sample: 205253-866401

Matrix: WATER

Prep. Date: 01/24/08

Analysis Date: 01/25/08

Lab ID#'s in Batch: 205133, 205253, 205312, 205313, 205314, 205315, 205316, 205372, 205373, 205481

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
TKN	351.2	ND	12.5	12.7	13.1	102	105	3

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 80 - 120
------------------------

RPD LIMITS = 20
-----------------

## PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	ND	2.56	2.50	102	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	6.20	6.61	94	85%	115%

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits



**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - INORGANICS**

QC Sample: 205312

Matrix: WATER

Prep. Date: 01/24/08

Analysis Date: 01/24/08

Lab ID#'s in Batch: 205312, 205313, 205314, 205315, 205316, 205317, 205318, 205159, 205160, 205161, 205162, 205163, 205372, 205164, 205165, 205375

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Total Phosphate (as P)	365.2	0.02	0.40	0.42	0.43	101	102	1
Total Phosphate (as PO4)	365.2	0.07	1.23	1.30	1.31	101	102	1

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

*%REC LIMITS = 75-125*

*RPD LIMITS = 20*

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Total Phosphate (as P)	365.2	ND	0.32	0.33	99	80%	120%
Total Phosphate (as PO4)	365.2	ND	0.99	1.00	99	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

205314

# CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATERSHED MONITORING PROGRAM

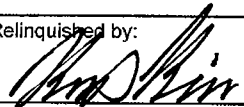
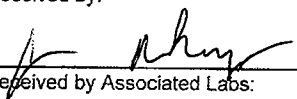
Client Name/Account #: Stetson Engineers Inc.  
 Address: 861 Village Oaks Dr., Suite 100  
 City/State/Zip: Covina, CA 91724  
 Project Manager: Ken Reich  
 Telephone Number: 626-967-6202 Fax No.: 626-331-7065  
 Sampler Name: (Print) Joel Barnard / Ken Reich  
 Sampler Signature: \_\_\_\_\_

Report To: Ken Reich  
 Invoice To: Ken Reich  
 Quote #: \_\_\_\_\_  
 Project ID: Lower SMR Watershed  
 Project #: 2258

Sample ID / Description	Sampling Information						Preservative						Analyses						Reporting/TAT				
	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	None	Other	Conductivity, Nitrate, Nitrite, Ortho Phosphate, pH	BOD5	Chlorophyll a	Dissolved Oxygen	Total Phosphorous, TKN, Ammonia		RUSH TAT	Standard TAT	Fax Results	Send QC with report
DAY 1 JANUARY INDEX SAMPLING																							
#11044350 Sandia Creek	1/21	9:45	1		X		X					X		X							X		X
#11044350 Sandia Creek	1/21	9:45	1		X		X					X			X						X		X
#11044350 Sandia Creek	1/21	9:45	1		X		X					X				X					X		X
#11044350 Sandia Creek	1/21	9:45	1	X			X					X					X				X		X
#11044350 Sandia Creek	1/21	9:45	1		X		X				X							X			X		X

Special Instructions: 1) Electronic Data Deliverable Required  
 2) "J" flag results between the MDL and the reporting limit

Laboratory Comments:  
 Temperature Upon Receipt:  
 VOCs Free of Headspace? Y N

Relinquished by: 	Date: 1/21/08	Time: 15:10	Received by: 	Time: 15:11
Relinquished by:	Date:	Time:	Received by Associated Labs:	Time: