**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 238199

REPORTED 08/06/2009

RECEIVED 07/27/2009

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.

1011040

1011041

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1011040 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 07/27/2009

Time Sampled: 09:50

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	1.3	1	1.0		mg/M3	07/28/09 HK
2510B	Specific Conductance	1660	1	1.0	0.86	umhos/c	07/28/09 AE
300.0	Nitrate (as NO3)	14.1	1	0.44	0.07	mg/L	07/27/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/27/09 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	08/01/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.16 J	1	0.4	0.06	mg/L	08/01/09 TP
4500-H+B	pH	7.95	1			NA	07/27/09 MS
4500-P-B.5-E	Total Phosphorus as P	0.03	1	0.02	0.01	mg/L	08/03/09 DK
4500-P-E	Ortho Phosphate as PO4	0.052 J	1	0.06	0.015	mg/L	07/28/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/28/09 HK

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

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Analytical Results Report

Lab Request 238199 results, page 1 of 2



Order #: 1011041 Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2510B	Specific Conductance	0.64	1	1.0	0.86	umhos/c	07/28/09 AE
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	07/27/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/27/09 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	08/01/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	08/01/09 TP
4500-H+B	pH	5.24	1			NA	07/27/09 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	08/03/09 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	07/28/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/28/09 HK

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 238199 results, page 2 of 2



**ASSOCIATED LABORATORIES
QA REPORT FORM**

QC Sample: 238228-1011217

Matrix: WATER

Prep. Date: 08/01/09

Analysis Date: 08/02/09

Lab ID#'s in Batch: 238406, 238185, 238228, 238198, 238199, 238200, 238202, 238203

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	0.17	12.5	11.7	11.6	92	91	1

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

<i>%REC LIMITS = 80 - 120</i>
<i>RPD LIMITS = 20</i>

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	ND	2.55	2.50	102	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	3.02	3.17	95	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: LR 238196

Matrix: WATER

Prep. Date: July 28, 2009

Analysis Date: July 28, 2009

Lab ID#'s in Batch: LR 238196, 238197, 238198, 238199, 238200, 238201, 238202, 238203, 238204, 238185, 238220
LR 238221, 238222, 238225, 238226, 238227, 238228, 238230

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 PO ₄)	4500-P-E	0.52	1.53	2.05	2.06	100	101	0
Ortho-Phosphate (as P)	4500-P-E	0.17	0.50	0.67	0.67	100	101	0

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 PO ₄)	4500-P-E	ND	1.03	1.00	103	80%	120%
Ortho-Phosphate (as P)	4500-P-E	ND	0.34	0.33	103	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: LR 238198

Matrix: WATER

Prep. Date: Aug 03 2009

Analysis Date: Aug 03 2009

Lab ID#'s in Batch: LR 238197, 238198, 238199, 238200, 238201, 238202, 238203, 23/8204, 238405, 238407

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)	4500-P-E	ND	0.40	0.40	0.41	101	101	0
Total Phosphate (as PO4)	4500-P-E	ND	1.23	1.24	1.24	101	101	0

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

<i>%REC LIMITS = 75-125</i>
<i>RPD LIMITS = 20</i>

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Total Phosphate (as P)	4500-P-E	ND	0.34	0.33	103	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.03	1.00	103	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 : 238191-1011011

Matrix: WATER

Prep. Date: 07/27/09

Analysis Date: 07/27/09

Lab ID#'s in Batch: 238191, 238203, 238196, 238197, 238198, 238199, 238200, 238201,
238202, 238204

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	119	200	344.72	346.00	113	113	0
SO4	300.0	166	200	387.91	387.83	111	111	0
NO3	300.0	21.9	100	122.37	119.50	100	98	2
NO2	300.0	ND	100	112.39	114.67	112	115	2

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	43.34	40	108	90%	110%
SO4	300.0	ND	43.47	40	109	90%	110%
NO3	300.0	ND	22.16	20	111	90%	110%
NO2	300.0	ND	11.41	10	114	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

** = Outside QC Limit*

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: 238196-1011034

Matrix: WATER

Prep. Date: 08/01/09

Analysis Date: 08/02/09

Lab ID#'s in Batch: 238406, 238185, 238196, 238197, 238198, 238199, 238200

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	ND	5.00	5.02	5.07	100	101	1

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	4.99	5.00	100	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
LCS REPORT FORM

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: July 28, 2009

Analysis Date: August 2, 2009

Lab ID#'s in Batch: LR 238230, 238196, 238199, 238200, 238201, 238202, 238203, 238204

Reporting Units = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLANK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
BOD	405.1/5210B	ND	184.78	200	92	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

[Handwritten mark]

238199

CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATGERSHED MONITORING PROGRAM

Client Name/Account #:	Stetson Engineers Inc.	Report To: Ken Reich
Address:	861 Village Oaks Dr., Suite 100	Invoice To: Ken Reich
City/State/Zip:	Covina, CA 91724	Quote #:
Project Manager:	Ken Reich	Project ID: Lower SMR Watershed
Telephone Number:	626-967-6202 Fax No.: 626-331-7065	Project #: 2258
Sampler Name: (Print)	Joel Barnard / Ken Reich	
Sampler Signature:		

Sample ID / Description	Sampling Information				Preservative							Analyses					Reporting/TAT					
	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other	Conductivity, pH	BOD ₅	Chlorophyll a	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
DAY 4 JULY INDEX SAMPLING																						
#11044350 Sandia Creek	7/27	9:50	1	X			X					X		X						X		X
#11044350 Sandia Creek			1	X			X					X				X			X		X	
#11044350 Sandia Creek			1	X			X					X					X		X		X	
#11044350 Sandia Creek			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

Relinquished by: *[Signature]*

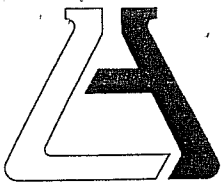
Relinquished by: *[Signature]*

Received by: *M. Schubert*

Received by Associated Labs:

Temperature Upon Receipt: N

VOCs Free of Headspace? Y



ASSOCIATED LABORATORIES

806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1	Client: <u>Stetson</u>	Project: <u>Lower SMR Water-Shed</u>
Date Received: <u>7-27-09</u>	Sampler's Name: <u>Yes</u> No	
Sample(s) received in cooler: Yes	No (Skip Section 2)	
Shipping Information:		

Section 2
Was the cooler packed with: <u>X</u> Ice <u> </u> Ice Packs <u> </u> Bubble Wrap <u> </u> Styrofoam <u> </u> Paper <u> </u> None <u> </u> Other <u> </u>
Cooler or box temperature: <u>3.0C</u>
(Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<u>X</u>		
Is it properly completed? (IDs, sampling date and time, signature, test)	<u>X</u>		
Were custody seals present?			<u>X</u>
If Yes – were they intact?			<u>X</u>
Were all samples sealed in plastic bags?	<u>X</u>		
Did all samples arrive intact? If no, indicate below.	<u>X</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>X</u>		
Were correct containers used for the tests required?	<u>X</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>X</u>		
Was there headspace in VOA vials?			<u>X</u>
Were the containers labeled with correct preservatives?	<u>X</u>		
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>X</u>

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: Y / N N/A

Completed By: M. Echeverri Date: 7-27-09