

216928

CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATGERSHED 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:

Joel Barnard

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 ₃	HCl	NaOH	H ₂ SO ₄	None	Other	Conductivity, Nitrate, Nitrite, Ortho Phosphate, pH	BOD5	Chlorophyll a	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
DAY 5 JULY INDEX SAMPLING	#11044350 Sandia Creek	7/25/08	9:40	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: <i>Tran Nguyen</i>		Date: 6/25/08	Time: 11:50	Received by: <i>Ken Reich</i>		Time: 11:50																
Relinquished by:		Date:	Time:	Received by Associated Labs:		Time:																
Laboratory Comments: Temperature Upon Receipt: Y VOCs Free of Headspace? Y																						



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 216928

REPORTED 08/04/2008

RECEIVED 07/25/2008

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.

918310
918311

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 #: 918310

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: #11044350 Sandia Creek

Date Sampled: 07/25/2008

Time Sampled: 09:40

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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10200H Chlorophyll

Chlorophyll	ND	1	1.0	mg/M3	07/28/08 HK
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2510B Specific Conductance

Specific Conductance	1620	1	1.0	umhos/cm	07/29/08 A
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300.0 Nitrate as NO3 by Ion Chromatography

Nitrate (as NO3)	16.7	1	0.44	mg/L	07/26/08 WW
Nitrite (as NO2)	ND	1	0.33	mg/L	07/26/08 WW

350.1 Ammonia, Automated Phenate

Ammonia -N	0.05 J	1	0.1	mg/L	07/26/08 TP
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351.2 Total Kjeldahl Nitrogen, Semi-Automated

Total Kjeldahl Nitrogen (TKN)	0.26 J	1	0.4	mg/L	07/26/08 TP
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4500-H+B pH

pH	8.0	1		NA	07/26/08 DK
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4500-P-B.5-E Total Phosphorus

Total Phosphorus as P	0.17	1	0.02	mg/L	07/28/08 DK
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4500-P-E Ortho-Phosphate

Ortho Phosphate as PO4	0.09	1	0.06	mg/L	07/26/08 DK
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5210B Biochemical Oxygen Demand (BOD)

BOD	ND	1	3.0	mg/L	07/26/08 DK
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 918311

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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2510B Specific Conductance

Specific Conductance	0.48	1	1.0	umhos/cm	07/29/08 AE
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300.0 Nitrate as NO3 by Ion Chromatography

Nitrate (as NO3)	ND	1	0.44	mg/L	07/26/08 WW
Nitrite (as NO2)	ND	1	0.33	mg/L	07/26/08 WW

350.1 Ammonia, Automated Phenate

Ammonia -N	ND	1	0.1	mg/L	07/26/08 TP
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351.2 Total Kjeldahl Nitrogen, Semi-Automated

Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	mg/L	07/26/08 TP
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4500-H+B pH

pH	6.32	1		NA	07/26/08 LN
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4500-P-B.5-E Total Phosphorus

Total Phosphorus as P	ND	1	0.02	mg/L	07/28/08 DK
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4500-P-E Ortho-Phosphate

Ortho Phosphate as PO4	ND	1	0.06	mg/L	07/26/08 DK
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5210B Biochemical Oxygen Demand (BOD)

BOD	ND	1	3.0	mg/L	07/26/08 DK
-----	----	---	-----	------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report



ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample : 216976-918492

Matrix: WATER

Prep. Date: 07/26/08

Analysis Date: 07/27/08

Lab ID#'s in Batch: 216934, 216923, 216926, 216928, 216929, 216932, 216933, 216939, 216946, 216944, 216965, 216976

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	nd	200	199	200	100	100	1
SO4	300.0	nd	200	207	208	104	104	0
NO3	300.0	nd	100	105	106	105	106	1
NO2	300.0	ND	100	103.7	105.4	104	105	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	41.3	40	103	90%	110%
SO4	300.0	ND	41.3	40	103	90%	110%
NO3	300.0	ND	20.6	20	103	90%	110%
NO2	300.0	ND	10.3	10	103	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: 216673-917187

Matrix: WATER

Prep. Date: 07/26/08

Analysis Date: 07/27/08

Lab ID#'s in Batch: 216673, 216679, 216680, 216681, 216682, 216683, 216684, 216685, 216923,
216924, 216928, 216929, 216932, 216933

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	5.34	5.38	107	108	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

PREP BLK		LCS			
Value	Result	True	%Rec	L.Limit	H.Limit
ND	5.18	5.00	104	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: 216673-917187

Matrix: WATER

Prep. Date: 07/26/08

Analysis Date: 07/27/08

Lab ID#'s in Batch: 216673, 216679, 216680, 216681, 216682, 216683, 216684, 216685,
216923, 216924, 216928, 216929, 216932, 216933

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	12.3	12.1	98	97	2

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	2.30	2.50	92	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	2.42	2.64	92	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 216923

Matrix: WATER

Prep. Date: July 26, 2008

Analysis Date: July 26, 2008

Lab ID#'s in Batch: LR 216923, 216926, 216928, 216929, 216932, 216933, 216934, 216944, 216945, 216965, 216946

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	1.55	1.54	101	101	1
Ortho-Phosphate (as P)	365.2	0.00	0.50	0.51	0.50	101	101	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
Ortho-Phosphate (as PO4)	365.2	ND	1.00	1.00	100	80%	120%
Ortho-Phosphate (as P)	365.2	ND	0.33	0.33	100	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 216837

Matrix: WATER

Prep. Date: 07/28/08

Analysis Date: 07/28/08

Lab ID#'s in Batch: LR 216837, 216839, 216840, 216843, 216846, 216849, 216851, 216923, 216926, 216928, 216929, 216932, 216933, 216934, 216944, 216946, 216587, 216945

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	0.41	0.41	101	103	2
Total Phosphate (as PO4)	4500-P-E	0.00	1.23	1.24	1.26	101	103	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
Total Phosphate (as P)	4500-P-E	ND	0.33	0.33	102	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.02	1.00	102	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
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: July 26, 2008

Analysis Date: July 31, 2008

Lab ID#'s in Batch: 216933, 216932, 216929, 216928

Reporting Units = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

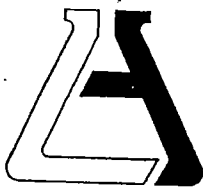
Test	Method	PREP. BLANK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
BOD	405.1	ND	174	200	87	80%	120%

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

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

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Stetson

Project: _____

Date Received: 7-25-08

Sample(s) received in cooler: Yes No (Skip Section 2)

Section 2

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler or box temperature: 2-7°C

(Acceptance range is 2 to 6 Deg. C.)

Section 3

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Yes - were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all samples sealed in plastic bags?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there head space in VOA vials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the samples scanned for presence of radioactivity?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

*: 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: [Signature] Date: 7-25-08