

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

216725

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:

Project #: 2258

Report To: Ken Reich

Invoice To: Ken Reich

Quote #:

Project ID: Lower SMR Watershed

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	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report
#11044350 Sandia Creek	7/23	14:30	1	X			X					X		X					X		X
#11044350 Sandia Creek	7/23	14:30	1	X			X					X			X				X		X
#11044350 Sandia Creek	7/23	14:30	1	X			X					X			X				X		X
#11044350 Sandia Creek	7/23	14:30	1	X			X					X							X		X

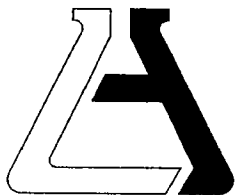
**DAY 3 JULY INDEX SAMPLING**

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

Relinquished by: *[Signature]* Date: 7/23/05 Time: 14:00 Received by: *[Signature]* ADA-Ramos 7/23 Time: 14:00

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

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



**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 216725

REPORTED 08/04/2008

RECEIVED 07/23/2008

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.**

917645

917646

**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 #: 917645

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: #11044350 Sandia Creek

Date Sampled: 07/23/2008

Time Sampled: 11:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**10200H Chlorophyll**

Chlorophyll	1.60	1	1.0	mg/M3	07/24/08 HK
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**2510B Specific Conductance**

Specific Conductance	1630	1	1.0	umhos/cm	07/23/08 AE
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**300.0 Nitrate as NO3 by Ion Chromatography**

Nitrate (as NO3)	16.1	1	0.44	mg/L	07/23/08 WW
Nitrite (as NO2)	ND	1	0.33	mg/L	07/23/08 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)	0.21 J	1	0.4	mg/L	07/26/08 TP
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**4500-H+B pH**

pH	8.07	1		NA	07/23/08 AR
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**4500-P-B.5-E Total Phosphorus**

Total Phosphorus as P	0.12	1	0.02	mg/L	07/28/08 DK
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**4500-P-E Ortho-Phosphate**

Ortho Phosphate as PO4	0.07	1	0.06	mg/L	07/24/08 DK
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**5210B Biochemical Oxygen Demand (BOD)**

BOD	ND	1	3.0	mg/L	07/23/08 LT
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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 #: 917646

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	0.65	1	1.0	umhos/cm	07/23/08 AE
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**300.0 Nitrate as NO3 by Ion Chromatography**

Nitrate (as NO3)	ND	1	0.44	mg/L	07/23/08 WW
Nitrite (as NO2)	ND	1	0.33	mg/L	07/23/08 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	6.20	1		NA	07/23/08 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	07/24/08 DK
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**5210B Biochemical Oxygen Demand (BOD)**

BOD	ND	1	3.0	mg/L	07/23/08 LT
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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



**ASSOCIATED LABORATORIES  
QA REPORT FORM - INORGANICS**

QC Sample: LR 216723

Matrix: WATER

Prep. Date: July 24, 2008

Analysis Date: July 24, 2008

Lab ID#'s in Batch: 216723, 216724, 216725, 216726, 216727, 216728, 216729, 216777, 216773, 216791

**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 <sub>4</sub> )	365.2	0.22	1.53	1.72	1.74	98	99	1
Ortho-Phosphate (as P)	365.2	0.07	0.50	0.56	0.57	98	99	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 PO <sub>4</sub> )	365.2	ND	1.03	1.00	103	80%	120%
Ortho-Phosphate (as P)	365.2	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  
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: July 23, 2008

Analysis Date: July 28, 2008

Lab ID#'s in Batch: 216674, 216673, 216680, 216675, 216679, 216681, 216682, 216683, 216684, 216685, 216727, 216723, 216724, 216725, 216726

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	178	200	89	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 216729

Matrix: WATER

Prep. Date: 07/28/08

Analysis Date: 07/28/08

Lab ID#'s in Batch: LR 216723, 216724, 216725, 216726, 216726, 216727, 216728, 216729  
216791, 216409, 216410, 216411, 216412, 216413, 216414, 216415, 216416

**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	0.03	0.40	0.44	0.44	102	102	0
Total Phosphate (as PO4)	4500-P-E	0.09	1.23	1.34	1.35	102	102	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
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: 216725-917645

Matrix: WATER

Prep. Date: 07/26/08

Analysis Date: 07/27/08

Lab ID#'s in Batch: 216723, 216724, 216725, 216726, 216727, 216728, 216729, 216838

## 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	12.8	12.1	102	97	6

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	2.36	2.50	94	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	2.44	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**

QC Sample: 216725-917645

Matrix: WATER

Prep. Date: 07/26/08

Analysis Date: 07/27/08

Lab ID#'s in Batch: 216723, 216724, 216725, 216726, 216727, 216728, 216729, 216838

**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	0.10	5.00	5.07	5.07	99	99	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	5.16	5.00	103	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 : 216737-917681

Matrix: WATER

Prep. Date: 07/23/08

Analysis Date: 07/24/08

Lab ID#'s in Batch: 216683, 216684, 216685, 216702, 216704, 216723, 216724, 216725, 216726, 216727, 216728, 216729, 216736, 216737

**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	103.5	200	308	309	102	103	0
SO4	300.0	148	200	359	361	105	106	1
NO3	300.0	20.47	100	124	125	104	105	1
NO2	300.0	ND	100	104.6	104.4	105	104	0

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	41.7	40	104	90%	110%
SO4	300.0	ND	41.9	40	105	90%	110%
NO3	300.0	ND	20.8	20	104	90%	110%
NO2	300.0	ND	10.9	10	109	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**

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

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST****Section 1**Client: STETSON

Project: \_\_\_\_\_

Date Received: 7/23Sample(s) received in cooler: Yes No (Skip Section 2)**Section 2**Was the cooler packed with: Ice Ice Packs Bubble Wrap Styrofoam  
Paper None OtherCooler or box temperature: 5.4

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

**Section 3**

	YES	NO	N/A
Was a COC received?	<u>✓</u>		
Were custody seals present?		<u>✓</u>	
If Yes – were they intact?			<u>✓</u>
Were all samples sealed in plastic bags?	<u>✓</u>		
Did all samples arrive intact? If no, indicate below.	<u>✓</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>✓</u>		
Were correct containers used for the tests required?	<u>✓</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>✓</u>		
Was there head space in VOA vials?			<u>✓</u>
Were the correct preservatives used?	<u>✓</u>		
Were the samples scanned for presence of radioactivity?			<u>✓</u>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>✓</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/ACompleted By: [Signature]Date: 7/23/08