

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

216682  
ESB

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

TA Quote #:

Sampler Name: (Print) Joel Barnard / Ken Reich

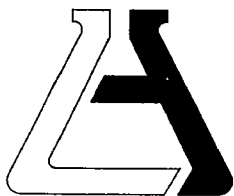
Project ID: Lower SMR Watershed

Sampler Signature: *Joel Barnard*

Project #: 2258

Sample ID / Description	Sampling Information				Preservative				Analyze For:				Reporting		
	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		
DAY 2 JULY INDEX AND QUARTERLY SAMPLING	#11044350 Sandia Creek	7/24/08 13:35	1	X			X	X						X	
	#11044350 Sandia Creek		2	X			X					X			X
	#11044350 Sandia Creek		1	X			X					X			X
	#11044350 Sandia Creek		1	X			X		X						X
	#11044350 Sandia Creek		1	X			X							X	X
	#11044350 Sandia Creek		1	X			X							X	X
	#11044350 Sandia Creek		1	X			X			X					X
	#11044350 Sandia Creek		1	X			X							X	X
	#11044350 Sandia Creek		1	X			X							X	X
	#11044350 Sandia Creek		1	X			X							X	X
#11044350 Sandia Creek		1	X			X							X	X	
#11044350 Sandia Creek		1	X			X							X	X	
#11044350 Sandia Creek		1	X			X							X	X	
#11044350 Sandia Creek		1	X			X							X	X	
#11044350 Sandia Creek		1	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>Tien Nguyen</i>	Date: 07/22/08	Time: 17:22	Received by: <i>Joel Barnard</i>	Date: 7/22/08	Time: 5:40										
Relinquished by:	Date:	Time:	Received by Associated Labs:	Date:	Time:										
Laboratory Comments: Temperature Upon Receipt: _____ VOCs Free of Headspace? _____															

216682  
ESB



**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 216682

REPORTED 08/04/2008

RECEIVED 07/22/2008

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.

917435

917436

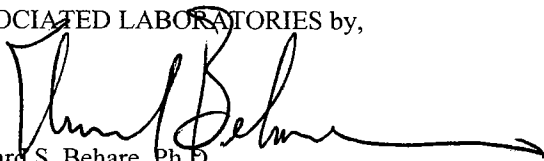
#### Client Sample Identification

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 #: 917435

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: 11044350 Sandia Creek

Date Sampled: 07/22/2008

Time Sampled: 13:35

Sampled By:

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

Chlorophyll	1.30	1	1.0	mg/M3	07/23/08	HK
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**1664 Oil and Grease**

Total Oil and Grease	9.0	1	5	mg/L	07/25/08	LN
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**200.7 ICP Total Metals - Water Only**

Aluminum	0.136	1	0.03	mg/L	07/25/08	KN
Beryllium	ND	1	0.001	mg/L	07/25/08	KN
Boron	0.137	1	0.05	mg/L	07/25/08	KN
Calcium	132	1	0.1	mg/L	07/25/08	KN
Iron	0.175	1	0.02	mg/L	07/25/08	KN
Manganese	0.012	1	0.01	mg/L	07/25/08	KN
Sodium	121	1	0.5	mg/L	07/25/08	KN
Zinc	0.006 J	1	0.01	mg/L	07/25/08	KN

**200.8 Total Metals by ICP/MS**

Antimony	0.0006 J	1	0.002	mg/L	07/25/08	NVK
Arsenic	0.0009 J	1	0.002	mg/L	07/25/08	NVK
Cadmium	ND	1	0.001	mg/L	07/25/08	NVK
Chromium	0.002 J	1	0.005	mg/L	07/25/08	NVK
Copper	0.002 J	1	0.003	mg/L	07/25/08	NVK
Lead	ND	1	0.005	mg/L	07/25/08	NVK
Nickel	0.004 J	1	0.005	mg/L	07/25/08	NVK
Selenium	0.004	1	0.002	mg/L	07/25/08	NVK
Silver	ND	1	0.005	mg/L	07/25/08	NVK
Thallium	ND	1	0.001	mg/L	07/25/08	NVK

**2130B Turbidity**

Turbidity	2.10	1	0.1	NTU	07/23/08	AE
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**2320B Bicarbonate Alkalinity**

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

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 917435

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: 11044350 Sandia Creek

Date Sampled: 07/22/2008

Time Sampled: 13:35

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**2320B Bicarbonate Alkalinity**

Bicarbonate Alkalinity as CaCO <sub>3</sub>	175	1	5.0	mg/L	08/01/08	HK
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**2510B Specific Conductance**

Specific Conductance	1620	1	1.0	umhos/cm	07/23/08	LN
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**2540 C Total Dissolved Solids**

Total Dissolved Solids	1140	1	10.0	mg/L	07/23/08	LN
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**300.0 Nitrate as NO<sub>3</sub> by Ion Chromatography**

Nitrate (as NO <sub>3</sub> )	16.3	1	0.44	mg/L	07/23/08	WW
Chloride	229	5	5.0	mg/L	07/23/08	WW
Sulfate	336	5	5.0	mg/L	07/23/08	WW
Nitrite (as NO <sub>2</sub> )	ND	1	0.33	mg/L	07/23/08	WW

**335.4 Cyanide, Automated**

Cyanide	ND	1	0.01	mg/L	07/23/08	TP
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**350.1 Ammonia, Automated Phenate**

Ammonia -N	0.059 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)	0.24 J	1	0.4	mg/L	07/26/08	TP
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**4500-F C Fluoride by ISE**

Fluoride	0.31	1	0.05	mg/L	07/25/08	CM
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**4500-H+B pH**

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

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 917435

Client: Stetson Engineers Inc.

Matrix: WATER

Client Sample ID: 11044350 Sandia Creek

Date Sampled: 07/22/2008

Time Sampled: 13:35

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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**4500-H+B pH**

pH	9.07	1		NA	07/23/08 LT
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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	0.09	1	0.06	mg/L	07/23/08 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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**5310B Total Organic Carbon (TOC)**

Total Organic Carbon	2.9	1	0.5	mg/L	07/23/08 QP
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**5540C MBAS**

MBAS	ND	1	0.04	mg/L	07/24/08 CM
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**7470A Mercury in Water**

Mercury	ND	1	0.0004	mg/L	07/24/08 MDJ
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**9221 Coliform by Multiple Tube Fermentation**

Fecal Coliform by MTF	50	1		MPN/100m	07/22/08 RG
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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 #: 917436

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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**1664 Oil and Grease**

Total Oil and Grease	ND	1	5	mg/L	07/25/08	LN
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**200.7 ICP Total Metals - Water Only**

Aluminum	ND	1	0.030	mg/L	07/25/08	KN
Beryllium	ND	1	0.001	mg/L	07/25/08	KN
Boron	ND	1	0.050	mg/L	07/25/08	KN
Calcium	ND	1	0.10	mg/L	07/25/08	KN
Iron	ND	1	0.02	mg/L	07/25/08	KN
Manganese	ND	1	0.010	mg/L	07/25/08	KN
Sodium	ND	1	0.50	mg/L	07/25/08	KN
Zinc	ND	1	0.010	mg/L	07/25/08	KN

**200.8 Total Metals by ICP/MS**

Antimony	ND	1	0.002	mg/L	07/25/08	NVK
Arsenic	ND	1	0.002	mg/L	07/25/08	NVK
Cadmium	ND	1	0.001	mg/L	07/25/08	NVK
Chromium	ND	1	0.005	mg/L	07/25/08	NVK
Copper	ND	1	0.003	mg/L	07/25/08	NVK
Lead	ND	1	0.005	mg/L	07/25/08	NVK
Nickel	ND	1	0.005	mg/L	07/25/08	NVK
Selenium	ND	1	0.002	mg/L	07/25/08	NVK
Silver	ND	1	0.005	mg/L	07/25/08	NVK
Thallium	ND	1	0.001	mg/L	07/25/08	NVK

**2130B Turbidity**

Turbidity	ND	1	0.1	NTU	07/23/08	AE
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**2320B Bicarbonate Alkalinity**

Bicarbonate Alkalinity as CaCO <sub>3</sub>	ND	1	5.0	mg/L	08/01/08	HK
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**2510B Specific Conductance**

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

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 917436

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	ND	1	1.0	umhos/cm	07/23/08	LN
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**2540 C Total Dissolved Solids**

Total Dissolved Solids	ND	1	10.0	mg/L	07/23/08	LN
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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
Chloride	ND	1	1.0	mg/L	07/23/08	WW
Sulfate	ND	1	1.0	mg/L	07/23/08	WW
Nitrite (as NO2)	ND	1	0.33	mg/L	07/23/08	WW

**335.4 Cyanide, Automated**

Cyanide	ND	1	0.01	mg/L	07/23/08	TP
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**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-F C Fluoride by ISE**

Fluoride	0.31	1	0.05	mg/L	07/25/08	CM
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**4500-H+B pH**

pH	6.20	1	NA		07/23/08	LT
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**4500-P-B.5-E Total Phosphorus**

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

**ASSOCIATED LABORATORIES**

Analytical Results Report



**Order #:** 917436**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
<b><u>4500-P-B.5-E Total Phosphorus</u></b>					
Total Phosphorus as P	ND	1	0.02	mg/L	07/28/08 DK
<b><u>4500-P-E Ortho-Phosphate</u></b>					
Ortho Phosphate as PO4	ND	1	0.06	mg/L	07/23/08 DK
<b><u>5210B Biochemical Oxygen Demand (BOD)</u></b>					
BOD	ND	1	3.0	mg/L	07/23/08 LT
<b><u>5310B Total Organic Carbon (TOC)</u></b>					
Total Organic Carbon	ND	1	0.5	mg/L	07/23/08 QP
<b><u>5540C MBAS</u></b>					
MBAS	ND	1	0.04	mg/L	07/24/08 CM
<b><u>7470A Mercury in Water</u></b>					
Mercury	ND	1	0.0004	mg/L	07/24/08 MDJ

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





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

QC Sample : 216894-

Matrix: WATER

Prep.Date: July 25, 2008

Analysis Date: July 25, 2008

Lab ID#'s in Batch: 216679, 216680, 216682, 216683, 216744, 216766, 216824, 216894, 216762, 216880, 216882, 216887, 216890

**SAMPLE RESULT / MATRIX SPIKE**

REPORTING UNITS = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	%Rec MS
O&G	1664 / 5520B	20	44	61	93

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

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

*Recovery Limits: 78 - 114*

*RPD Limit: 20*

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS			L.Limit	H.Limit
		Value	Result	True	%Rec		
O&G	1664	ND	38.9	40	97	78%	114%

*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: 216684

Matrix: WATER

Prep. Date: July 23, 2008

Analysis Date: July 23, 2008

Lab ID#'s in Batch: 216673, 216674, 216675, 216679, 216680, 216681, 216682, 216683, 216684, 216685

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
TDS	160-1 / 2540C	1,217	1,215	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 5%

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLANK	LCS				
Value	Result	True Value	% Rec	L. Limit	H. Limit
ND	293	293	100	90%	110%

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

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 - METHOD 200.7 / 6010**

QC Sample: 216681-917433

H# 072408 W1

Matrix: WATER

Prep. Date: July 24, 2008

Analysis Date: July 25, 2008

Lab ID#'s in Batch: 216681, 215799, 216684, 216685, 216675, 216764, 216682, 216804,  
 216709, 216680, 216683, 216679, 216722, 216409, 216704, 216653, 216783

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
As	0.06	1	1.12	106
Se	ND	1	0.80	80
Tl	ND	1	0.94	94
Pb	0.01	1	0.96	95
Sb	ND	1	1.05	105
Ba	0.04	1	1.08	104
Be	ND	1	1.00	100
Cd	ND	1	1.00	100
Cr	ND	1	1.01	101
Co	ND	1	0.96	96
Cu	ND	1	0.97	97
Mo	ND	1	1.03	103
Ni	ND	1	0.95	95
Ag	ND	1	0.41	82
V	ND	1	1.06	106
Zn	0.01	1	1.03	102
Al	0.18	1	1.20	102
Fe	0.65	1	1.47	82
Mn	0.02	1	1.03	101
B	ND	1	0.95	95
Ca	44.60	10	53.00	NC
Mg	19.00	10	29.00	100
K	0.65	10	11.00	104
Na	25.00	10	33.00	80

\* = Outside QC limits, due to matrix Interference  
 If Sample Result > 4 times Spike Added, then "NC"

% REC LIMITS = 75 - 125  
RPD LIMITS = 20

**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.7 / 6010**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	MB Limit
Ag	0.98	1	98	0.005
Al	2.13	2	107	0.030
As	1.90	2	95	0.005
B	2.01	2	101	0.050
Ba	2.05	2	103	0.010
Be	2.02	2	101	0.005
Cd	2.01	2	101	0.005
Co	2.05	2	103	0.005
Cr	2.08	2	104	0.010
Cu	2.00	2	100	0.010
Fe	2.15	2	108	0.020
Mn	2.09	2	105	0.010
Mo	2.03	2	102	0.010
Ni	2.05	2	103	0.015
Pb	2.09	2	105	0.005
Sb	2.05	2	103	0.006
Se	1.98	2	99	0.006
Tl	2.06	2	103	0.005
V	2.06	2	103	0.005
Zn	2.12	2	106	0.010
Ca	2.26	2	113	0.100
Mg	2.26	2	113	0.100
K	21.60	20	108	0.500
Na	2.36	2	118	0.100

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - METHOD 200.7 / 6010**

QC Sample: 216683-917437 H# 072408 W1 D

Matrix: WATER

Prep. Date: July 24, 2008

Analysis Date: July 25, 2008

Lab ID#'s in Batch: 216681, 215799, 216684, 216685, 216675, 216764, 216682, 216804,  
 216709, 216680, 216683, 216679, 216722, 216409, 216704, 216653,  
 216783

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
As	0.02	1	1.11	109
Se	ND	1	0.79	79
Tl	ND	1	0.94	94
Pb	0.12	1	0.98	86
Sb	ND	1	1.08	108
Ba	0.08	1	1.16	108
Be	ND	1	1.09	109
Cd	ND	1	1.05	105
Cr	ND	1	1.08	108
Co	ND	1	1.00	100
Cu	0.01	1	1.03	102
Mo	ND	1	1.07	107
Ni	ND	1	1.04	104
Ag	ND	1	0.43	86
V	0.01	1	1.12	112
Zn	ND	1	1.08	108
Al	0.10	1	1.14	104
Fe	0.12	1	1.24	112
Mn	0.03	1	1.11	109
B	0.27	1	1.35	108
Ca	61.00	10	77.00	NC
Mg	21.00	10	34.00	130
K	3.91	10	15.00	111
Na	101.00	10	117.00	NC

\* = Outside QC limits, due to matrix Interference  
 If Sample Result > 4 times Spike Added, then "NC"

% REC LIMITS = 75 -125  
 RPD LIMITS = 20

**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.7 / 6010**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	MB Limit
Ag	0.98	1	98	0.005
Al	2.13	2	107	0.030
As	1.90	2	95	0.005
B	2.01	2	101	0.050
Ba	2.05	2	103	0.010
Be	2.02	2	101	0.005
Cd	2.01	2	101	0.005
Co	2.05	2	103	0.005
Cr	2.08	2	104	0.010
Cu	2.00	2	100	0.010
Fe	2.15	2	108	0.020
Mn	2.09	2	105	0.010
Mo	2.03	2	102	0.010
Ni	2.05	2	103	0.015
Pb	2.09	2	105	0.005
Sb	2.05	2	103	0.006
Se	1.98	2	99	0.006
Tl	2.06	2	103	0.005
V	2.06	2	103	0.005
Zn	2.12	2	106	0.010
Ca	2.26	2	113	0.100
Mg	2.26	2	113	0.100
K	21.60	20	108	0.500
Na	2.36	2	118	0.100

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - METHOD 200.8**

QC Sample: LR216681-917433

H# 072408W11

Matrix: WATER

Prep. Date: July 24, 2008

Analysis Date: July 25, 2008

Lab ID#s in Batch: LR216681,216684,216685,216682,216680,216683,216679,216786,216789,216891.

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	% RPD
As	0.003	0.05	0.056	N/A	106	N/A	N/A
Se	0.003	0.05	0.055	N/A	104	N/A	N/A
Tl	ND	0.05	0.053	N/A	106	N/A	N/A
Pb	ND	0.05	0.053	N/A	106	N/A	N/A
Sb	0.005	0.05	0.054	N/A	98	N/A	N/A
Cd	ND	0.05	0.054	N/A	108	N/A	N/A
Cr	0.002	0.05	0.052	N/A	100	N/A	N/A
Cu	0.001	0.05	0.049	N/A	96	N/A	N/A
Ni	0.002	0.05	0.049	N/A	94	N/A	N/A
Ag	ND	0.05	0.047	N/A	94	N/A	N/A

\* = Outside QC limits, due to matrix Interference  
 If Sample Result > 4 times Spike Added, then "NC"

% REC LIMITS = 70 - 130 RPD LIMITS = 20
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**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.8**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	QC Limit %REC	Method Blank
Ag	0.024	0.025	96	80-120	< 0.005
As	0.051	0.05	102	80-120	< 0.002
Cd	0.052	0.05	104	80-120	< 0.001
Cr	0.050	0.05	100	80-120	< 0.002
Cu	0.050	0.05	100	80-120	< 0.005
Ni	0.050	0.05	100	80-120	< 0.005
Pb	0.052	0.05	104	80-120	< 0.005
Sb	0.051	0.05	102	80-120	< 0.002
Se	0.052	0.05	104	80-120	< 0.005
Tl	0.051	0.05	102	80-120	< 0.001

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

QC Sample : 216681-917433

Matrix: WATER

Prep. Date: 07/23/08

Analysis Date: 07/24/08

Lab ID#'s in Batch: 216681, 216661, 216697, 216679, 216680, 216682,

**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	25.4	200	226	225	100	100	0
SO4	300.0	19	200	226	225	104	103	0
NO3	300.0	1.46	100	105	105	104	104	0
NO2	300.0	ND	100	106.3	107.6	106	108	1

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	42.0	40	105	90%	110%
SO4	300.0	ND	42.2	40	106	90%	110%
NO3	300.0	ND	20.8	20	104	90%	110%
NO2	300.0	ND	11.0	10	110	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: 216679-917429

Matrix: WATER

Prep. Date: July 23, 2008

Analysis Date: July 25, 2008

ID#'s in Batch: 216679, 216680, 216682, 216683

**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
CN	335.4 / 4500-CN	ND	0.50	0.580	0.580	116	116	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*

<i>%REC LIMITS = 80-120</i>
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<i>RPD LIMITS = 20</i>
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.107	0.10	107	90%	110%

*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 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

%REC LIMITS = 80 - 120
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RPD LIMITS = 20
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**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**

QC Sample: LR 216714-917590

Matrix: WATER

Prep. Date: 07/25/2008

Analysis Date: 07/25/2008

Lab ID#'s in Batch: LR 216714, 216166, 216679, 216680, 216681, 216682,  
LR 216683, 216684

**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
FLUORIDE	340.2 / 4500-F	0.98	1.25	2.23	2.25	100	102	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 = 75 - 125
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RPD LIMITS = 20
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.97	1.00	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 - INORGANICS**

QC Sample: LR 216578

Matrix: WATER

Prep. Date: July 23, 2008

Analysis Date: July 23, 2008

Lab ID#'s in Batch: 216578, 216580, 216581, 216582, 216583, 216584, 216585, 216673, 216674, 216675, 216679, 216680, 216684, 216685, 216697, 216681, 216682, 216683

**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	1.54	1.54	101	101	0
Ortho-Phosphate (as P)	365.2	0.00	0.50	0.50	0.50	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

%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	1.01	1.00	101	80%	120%
Ortho-Phosphate (as P)	365.2	ND	0.33	0.33	101	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 216578

Matrix: WATER

Prep. Date: 07/28/08

Analysis Date: 07/28/08

Lab ID#'s in Batch: LR 216578, 216580, 216581, 216582, 216583, 216584, 216585, 216579, 216680, 216681, 216684, 216685, 216682, 216683, 216773, 216774

**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	0.40	102	101	1
Total Phosphate (as PO4)	4500-P-E	0.00	1.23	1.25	1.23	102	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
Total Phosphate (as P)	4500-P-E	ND	0.33	0.33	100	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.00	1.00	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**

QC Sample: 216580

Matrix: WATER

Prep. Date: July 23, 2008

Analysis Date: July 23, 2008

Lab ID#'s in Batch: 216580, 216581, 216679, 216680, 216682

**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
TOC	415.1 / 9060	2.70	10.00	12.70	12.80	100	101	1

ND = "U" - 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
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RPD LIMITS = 20
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	9.50	10.00	95	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: LR 216684-917448

Matrix: WATER

Prep. Date: 07/24/2008

Analysis Date: 07/24/2008

Lab ID#'s in Batch: LR 216679, 216680, 216681, 216682, 216683, 216684, 216685, 216768, 216769,  
LR 216770, 216775

**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
MBAS	425.1	0.05	1.00	1.05	1.12	100	107	6

ND = "U" - 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 = 75 - 125

RPD LIMITS = 20

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	1.05	1.00	105	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: lr 216680-917431

Matrix: water

Prep. Date: July 24, 2008

Analysis Date: July 24, 2008

Lab ID#'s in Batch: lr 216680, 216679, 216682, 216683, 216722

**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
MERCURY	245.1 / 7470A	ND	0.002	0.0017	0.0017	85	85	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**

PREP BL / LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.0048	0.0050	96	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: 7/22Sample(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: 5.4

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

**Section 3**

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Were custody seals present?		<input checked="" type="checkbox"/>	
If Yes – were they intact?			<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?		<input checked="" type="checkbox"/>	
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there head space in VOA vials?	<input checked="" type="checkbox"/>		
Were the correct preservatives used?			<input checked="" type="checkbox"/>
Were the samples scanned for presence of radioactivity?			<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<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/ACompleted By: [Signature]Date: 7/22/00