

**ASSOCIATED LABORATORIES**  
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CLIENT Stetson Engineers Inc. (10442)  
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Suite 100  
Covina, CA 91724

LAB REQUEST 228389

REPORTED 02/18/2009

RECEIVED 02/04/2009

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.

968016

968017

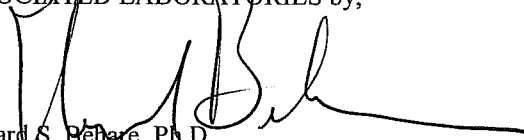
### Client Sample Identification

#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 #: 968016 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 02/04/2009

Time Sampled: 10:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	0.060	1	0.03	0.010	mg/L	02/06/09 KN
200.7	Beryllium	ND	1	0.001	0.001	mg/L	02/06/09 KN
200.7	Boron	0.197	1	0.05	0.009	mg/L	02/06/09 KN
200.7	Calcium	142	1	0.1	0.038	mg/L	02/06/09 KN
200.7	Iron	0.109	1	0.02	0.012	mg/L	02/06/09 KN
200.7	Manganese	0.009 J	1	0.01	0.001	mg/L	02/06/09 KN
200.7	Silver	0.006	1	0.005	0.002	mg/L	02/06/09 KN
200.7	Sodium	131	1	0.5	0.15	mg/L	02/06/09 KN
200.7	Zinc	0.017	1	0.01	0.002	mg/L	02/06/09 KN
200.8	Antimony	ND	1	0.002	0.0014	mg/L	02/10/09 NVK
200.8	Arsenic	ND	1	0.002	0.0002	mg/L	02/10/09 NVK
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	02/10/09 NVK
200.8	Chromium	0.004 J	1	0.005	0.0008	mg/L	02/10/09 NVK
200.8	Copper	0.002 J	1	0.003	0.0001	mg/L	02/10/09 NVK
200.8	Lead	0.0001 J	1	0.005	0.0001	mg/L	02/10/09 NVK
200.8	Nickel	0.005	1	0.005	0.0005	mg/L	02/10/09 NVK
200.8	Selenium	0.004	1	0.002	0.0003	mg/L	02/10/09 NVK
200.8	Thallium	ND	1	0.001	0.0001	mg/L	02/10/09 NVK
10200H	Chlorophyll	ND	1	1.0		mg/M3	02/05/09 HK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	02/06/09 LN
2130B	Turbidity	0.38	1	0.1	0.0	NTU	02/05/09 AE
2320B	Bicarbonate Alkalinity as	175	1	5.0	1.2	mg/L	02/09/09 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	02/06/09 MDJ
2510B	Specific Conductance	1670	1	1.0	0.86	umhos/c	02/05/09 LN
2540C	Total Dissolved Solids	1140	1	10.0	5.7	mg/L	02/05/09 LN

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 #: 968016 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 02/04/2009

Time Sampled: 10:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Chloride	195	50	50.0	5.0	mg/L	02/05/09 WW
300.0	Nitrate (as NO3)	18.4	1	0.44	0.07	mg/L	02/04/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	02/04/09 WW
300.0	Sulfate	311	50	50.0	8.5	mg/L	02/05/09 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	02/09/09 TP
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/07/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.15 J	1	0.4	0.06	mg/L	02/07/09 TP
4500-F C	Fluoride	0.29	1	0.05	0.004	mg/L	02/09/09 CM
4500-H+B	pH	7.82	1		NA		02/04/09 DV
4500-P-B.5-E	Total Phosphorus as P	0.018 J	1	0.02	0.01	mg/L	02/09/09 DK
4500-P-E	Ortho Phosphate as PO4	0.05 J	1	0.06	0.015	mg/L	02/05/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/05/09 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	02/05/09 CM
9221	Coliform by MTF, Total	80	1		MPN/10		02/04/09 RB
9221	Fecal Coliform by MTF	8	1		MPN/10		02/04/09 RB
5310B	Total Organic Carbon	2.4	1	0.5	0.5	mg/L	02/09/09 QP

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 228389 results, page 2 of 4



Order #: 968017 Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	ND	1	0.030	0.010	mg/L	02/06/09 KN
200.7	Beryllium	ND	1	0.001	0.001	mg/L	02/06/09 KN
200.7	Boron	ND	1	0.050	0.009	mg/L	02/06/09 KN
200.7	Calcium	ND	1	0.10	0.038	mg/L	02/06/09 KN
200.7	Iron	ND	1	0.02	0.012	mg/L	02/06/09 KN
200.7	Manganese	ND	1	0.010	0.001	mg/L	02/06/09 KN
200.7	Silver	ND	1	0.005	0.002	mg/L	02/06/09 KN
200.7	Sodium	ND	1	0.50	0.15	mg/L	02/06/09 KN
200.7	Zinc	ND	1	0.010	0.002	mg/L	02/06/09 KN
200.8	Antimony	ND	1	0.002	0.0014	mg/L	02/10/09 NVK
200.8	Arsenic	ND	1	0.002	0.0002	mg/L	02/10/09 NVK
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	02/10/09 NVK
200.8	Chromium	ND	1	0.005	0.0008	mg/L	02/10/09 NVK
200.8	Copper	ND	1	0.003	0.0001	mg/L	02/10/09 NVK
200.8	Lead	ND	1	0.005	0.0001	mg/L	02/10/09 NVK
200.8	Nickel	ND	1	0.005	0.0005	mg/L	02/10/09 NVK
200.8	Selenium	ND	1	0.002	0.0003	mg/L	02/10/09 NVK
200.8	Thallium	ND	1	0.001	0.0001	mg/L	02/10/09 NVK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	02/06/09 LN
2130B	Turbidity	ND	1	0.1	0.0	NTU	02/05/09 AE
2320B	Bicarbonate Alkalinity as	ND	1	5.0	1.2	mg/L	02/09/09 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	02/06/09 MDJ
2510B	Specific Conductance	0.58	1	1.0	0.86	umhos/c	02/05/09 LN
2540C	Total Dissolved Solids	ND	1	10.0	5.7	mg/L	02/05/09 LN
300.0	Chloride	ND	1	1.0	0.1	mg/L	02/04/09 WW
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	02/04/09 WW

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 #: 968017 Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Nitrite (as NO <sub>2</sub> )	ND	1	0.33	0.06	mg/L	02/04/09 WW
300.0	Sulfate	ND	1	1.0	0.17	mg/L	02/04/09 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	02/09/09 TP
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/07/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	02/07/09 TP
4500-F C	Fluoride	ND	1	0.05	0.004	mg/L	02/09/09 CM
4500-H+B	pH	5.29	1			NA	02/04/09 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	02/09/09 DK
4500-P-E	Ortho Phosphate as PO <sub>4</sub>	ND	1	0.06	0.015	mg/L	02/05/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/05/09 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	02/05/09 CM
5310B	Total Organic Carbon	ND	1	0.5	0.5	mg/L	02/09/09 QP

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



ASSOCIATED LABORATORIES  
QA REPORT FORM

QC Sample : LR 228363

Matrix: WATER

Prep.Date: February 6, 2009

Analysis Date: February 6, 2009

Lab ID#'s in Batch: LR 228363, 228386, 228387, 228388, 228389, 228364, 228343, 228344, 228411, 228358  
228414, 228441, 228495, 228462, 228512, 228509, 228510, 228511, 228513

REPORTING UNITS = mg/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
O&G	1664	ND	39.00	40	98	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: 228389

Matrix: WATER

Prep. Date: February 5, 2009

Analysis Date: February 5, 2009

Lab ID#'s in Batch: 228387, 228389, 228386, 228311

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
TDS	160-1 / 2540C	793	795	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 5%
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLANK	LCS				
Value	Result	True Value	% Rec	L. Limit	H. Limit
ND	282	293	96	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**  
**QA REPORT FORM - METHOD 200.7 / 6010**

QC Sample: LR228389-968016

H#020509W3

Matrix: WATER

Prep. Date: February 5, 2009

Analysis Date: February 6, 2009

Lab ID#'s in Batch: LR228389,228386,228388,228387,228461,228173,228385,228356,228317,227162.

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
Pb	0.010	1	0.78	77
Ba	0.091	1	0.94	85
Be	ND	1	0.85	85
Cd	ND	1	0.88	88
Cr	ND	1	0.85	85
Cu	0.011	1	0.82	81
Ni	ND	1	0.80	80
Ag	0.006	0.5	0.40	79
Zn	0.017	1	0.84	82
Al	0.060	1	0.83	77
Fe	0.109	1	1.11	100
Mn	ND	1	0.88	88
B	0.197	1	1.02	82
Ca	142.000	10	130.00	NC
Mg	61.200	10	68.00	NC
K	3.750	10	12.00	83
Na	131.000	10	121.00	NC

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

% REC LIMITS = 75 -125 RPD LIMITS = 20
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**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.7 / 6010**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	QC Limit %REC	Method Blank
Ag	0.92	1	92	80-120	< 0.005
Al	1.93	2	97	80-120	< 0.03
B	2.09	2	105	80-120	< 0.05
Ba	1.89	2	95	80-120	< 0.01
Be	1.92	2	96	80-120	< 0.005
Cd	1.94	2	97	80-120	< 0.005
Cr	1.99	2	100	80-120	< 0.01
Cu	1.80	2	90	80-120	< 0.01
Fe	2.11	2	106	80-120	< 0.02
Mn	1.92	2	96	80-120	< 0.01
Ni	1.99	2	100	80-120	< 0.015
Pb	1.93	2	97	80-120	< 0.005
Zn	2.00	2	100	80-120	< 0.01
Ca	96.90	100	97	80-120	< 0.1
Mg	94.20	100	94	80-120	< 0.1
K	98.30	100	98	80-120	< 0.5
Na	99.90	100	100	80-120	< 0.1

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

QC Sample: LR228388-968014

H#020909W10

Matrix: WATER

Prep. Date: February 9, 2009

Analysis Date: February 10, 2009

Lab ID#'s in Batch: LR228388,228723,228724,228675,228387,228385,228389,228386,228417.

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
As	0.002	0.05	0.052	100
Se	0.003	0.05	0.053	100
Tl	ND	0.05	0.048	96
Pb	ND	0.05	0.051	102
Sb	ND	0.05	0.057	114
Cd	ND	0.05	0.054	108
Cr	0.004	0.05	0.053	98
Cu	ND	0.05	0.047	94
Ni	0.002	0.05	0.049	94

\* = 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
As	0.046	0.05	92	80-120	< 0.002
Cd	0.051	0.05	102	80-120	< 0.001
Cr	0.053	0.05	106	80-120	< 0.002
Cu	0.048	0.05	96	80-120	< 0.005
Ni	0.049	0.05	98	80-120	< 0.005
Pb	0.051	0.05	102	80-120	< 0.005
Sb	0.052	0.05	104	80-120	< 0.002
Se	0.046	0.05	92	80-120	< 0.005
Tl	0.051	0.05	102	80-120	< 0.001

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: LR 228385-968006

Matrix: WATER

Prep. Date: 02/09/2009

Analysis Date: 02/09/2009

Lab ID#'s in Batch: LR 228385, 228386, 228387, 228389, 228388, 228204, 228362

**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	4500-FC	0.16	0.25	0.40	0.40	96	96	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 = 75 - 125</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	0.98	1.00	98	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 228362

Matrix: WATER

Prep. Date: 02/05/09

Analysis Date: 02/05/09

Lab ID#'s in Batch: LR 228362, 228360, 228385, 228386, 228387, 228388, 228389, 228390, 228391, 228392

**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> )	4500-P-E	ND	1.53	1.53	1.54	100	101	1
Ortho-Phosphate (as P)	4500-P-E	0.00	0.50	0.50	0.50	100	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 PO <sub>4</sub> )	4500-P-E	ND	1.02	1.00	102	80%	120%
Ortho-Phosphate (as P)	4500-P-E	ND	0.33	0.33	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 QA REPORT FORM

QC Sample: 228385-968006

Matrix: WATER

Prep. Date: 02/07/09

Analysis Date: 02/08/09

Lab ID#'s in Batch: 228385, 228386, 228387, 228388, 228389, 228390, 228391, 228392,  
228341, 228342, 228508, 228640, 228204

## 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	12.4	98	99	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

Test	Method	PREP BLK LCS					
		Value	Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	ND	2.16	2.50	86	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**

QC Sample: 228311-967692

Matrix: WATER

Prep. Date: 02/07/09

Analysis Date: 02/08/09

Lab ID#'s in Batch: 228260, 228385, 228386, 228387, 228388, 228389, 228390,  
228391, 228392, 228311, 228636, 228459, 228460

**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	0.11	5.00	5.06	5.08	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*

<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	4.91	5.00	98	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: 228386-968008

Matrix: WATER

Prep. Date: February 9, 2009

Analysis Date: February 9, 2009

ID#'s in Batch: 228386, 228317, 228357, 228387, 228388, 228389, 228414, 228441, 228548

**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	0.500	0.560	0.590	112	118	5

*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	0.110	0.10	110	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

Method : 310.1

QC Sample: LR 228385

Matrix: WATER

Analysis Date: February 9, 2009

Lab ID#'s in Batch: LR 228385, 228386, 228387, 228388, 228389, 228400, 228401, 228406, 228408, 228409

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Sample Result	Sample Duplicate	%RPD
Bicarbonate	275	275	0
Carbonate	ND	ND	0
Hydroxide	ND	ND	0
Alkalinity	225	225	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%
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**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample : LR 228408-968084

Matrix: WATER

Prep. Date: 02/04/09

Analysis Date: 02/05/09

Lab ID#'s in Batch: LR 228386, 228387, 228389, 228385, 228392, 228390, 228391, 228398, 228399, 228408, 228409, 228388, 228400, 228401, 228402, 228406

**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	10	200	206	225	98	108	9
SO4	300.0	15	200	223	222	104	104	1
Br <sup>-</sup>	300.0	ND	100	101	103	101	103	3
NO3	300.0	10.6	100	108.3	110	98	99	1
NO2	300.0	ND	100	95	95	95	95	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	40	101	90%	110%
SO4	300.0	ND	40	40	101	90%	110%
Br <sup>-</sup>	300.0	ND	19	20	97	90%	110%
NO3	300.0	ND	18.7	20	93	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 : LR 228383-968003

Matrix: WATER

Prep. Date: 02/05-06/09

Analysis Date: 02/07-08/09

Lab ID#'s in Batch: 228380, 228381, 228382, 228383, 228385, 228386, 228387, 228388, 228389, 228341, 228342, 228360, 228362, 228394, 228405, 228423, 228424, 228417

**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	206	175	103	88	16
SO4	300.0	ND	200	206	181	103	91	13
Br <sup>-</sup>	300.0	ND	100	100	87	100	87	13
NO3	300.0	0.1	100	97.3	87	97	87	11
NO2	300.0	ND	100	92	86	92	86	6

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	40	101	90%	110%
SO4	300.0	ND	40	40	101	90%	110%
Br <sup>-</sup>	300.0	ND	19	20	97	90%	110%
NO3	300.0	ND	18.8	20	94	90%	110%
NO2	300.0	ND	9.5	10	95	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: 228840 / 969691

Matrix: WATER

Prep. Date: February 12, 2009

Analysis Date: February 12, 2009

Lab ID#'s in Batch: 228389, 228799, 228790, 228840, 228807, 228810, 228813

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
TSS	160.2	215	208	3

*ND = "U" - Not Detected*

*RPD = Relative Percent Difference of Sample Result and Sample Duplicate*

<i>RPD LIMITS = 5%</i>
------------------------

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: LR 228386-968008

Matrix: WATER

Prep. Date: 02/05/2009

Analysis Date: 02/05/2009

Lab ID#'s in Batch: LR 228386, 228387, 228388, 228389

**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	5540C	ND	1.00	0.96	1.01	96	101	5

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

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	1.02	1.00	102	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: 228388

Matrix: WATER

Prep. Date: February 9, 2009

Analysis Date: February 9, 2009

Lab ID#'s in Batch: 228388, 228385, 228387, 228386, 228389

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/L

Test	Method	Sample Result Dup	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TOC	5310B / 9060	0.70	10.00	10.20	10.40	95	97	2

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
------------------------

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	9.90	10.00	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

228389

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

Sampler Name: (Print) Joel Barnard / Ken Reich

Sampler Signature: *[Signature]*

Report To: Ken Reich

Invoice To: Ken Reich

TA Quote #:

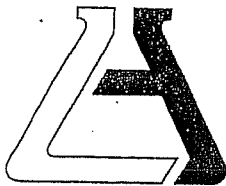
Project ID: Lower SMR Watershed

Project #: 2258

Sample ID / Description	Sampling Information				Preservative							Analyze For:										Reporting							
DAY 2 FEBRUARY 2009 INDEX AND QUARTERLY SAMPLING	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	Aluminum, Antimony, Arsenic, Beryllium, Boron, Cadmium, Calcium, Total Chromium, Copper, Lead, Iron, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc	Bicarbonate, Chloride, Conductivity, Fluoride, Nitrate, Ortho Phosphate, pH, Sulfate, TDS, Turbidity, Nitrite	BOD5	Cyanide	Fecal Coliform	TKN, Ammonia, Total Phosphorous	TOC	Oil and Grease	MBAS	Chlorophyll a	RUSH TAT	Standard TAT	Fax Results	Send QC with report		
	2/4/09	10:30	1	X			X	X						X		X									X	X	X	X	
			2	X			X					X				X									X	X	X	X	
			1	X			X						X													X	X	X	X
			1	X			X				X							X								X	X	X	X
			1	X			X						X													X	X	X	X
			1	X			X						X													X	X	X	X
			1	X			X					X		X												X	X	X	X
			1	X			X																			X	X	X	X
			1	X			X																			X	X	X	X

Relinquished by: <i>[Signature]</i>				Date: 2/4/09	Time: 15:45	Received by: <i>[Signature]</i>	Date: 2-4-09	Time: 4:25
Relinquished by: <i>[Signature]</i>				Date: 2-4-09	Time: 15:54	Laboratory Comments: Temperature Upon Receipt: VOCs Free of Headspace?		
						Y N		

2-5-09 11:04



# ASSOCIATED LABORATORIES

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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

### Section 1

Client: Stetson

Date Received: 2-4-09

Sample(s) received in cooler: Yes

Shipping Information: \_\_\_\_\_

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

Sampler's Name: Yes No

No (Skip Section 2)

### Section 2

Was the cooler packed with: X 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?	<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>	<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>	<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: Adi P

Date: 2-4-09