**ASSOCIATED LABORATORIES**
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CLIENT Stetson Engineers Inc. (10442)
ATTN: Ken Reich
861 Village Oaks
Suite 100
Covina, CA 91724

LAB REQUEST 205489
REPORTED 02/04/2008
RECEIVED 01/23/2008

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. | Client Sample Identification |
|---|---|
| 867403 | #11044350 Sandia Creek |
| 867404 | 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.*



*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

**Order #:** 867403 **Client Sample ID** #11044350 Sandia Creek

**Matrix:** WATER **Sample Description:** #11044350 Sandia Creek

**Date Sampled:** 01/23/2008
**Time Sampled:** 13:20

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 200.7 | Aluminum | 0.214 | 1 | 0.03 | 0.013 | mg/L | 01/30/08 KN |
| 200.7 | Beryllium | ND | 1 | 0.001 | 0.001 | mg/L | 01/30/08 KN |
| 200.7 | Boron | 0.136 | 1 | 0.05 | 0.007 | mg/L | 01/30/08 KN |
| 200.7 | Calcium | 122 | 1 | 0.1 | 0.004 | mg/L | 01/30/08 KN |
| 200.7 | Iron | 0.290 | 1 | 0.02 | 0.002 | mg/L | 01/30/08 KN |
| 200.7 | Manganese | 0.020 | 1 | 0.01 | 0.001 | mg/L | 01/30/08 KN |
| 200.7 | Sodium | 115 | 1 | 0.5 | 0.12 | mg/L | 01/30/08 KN |
| 200.7 | Zinc | 0.038 | 1 | 0.01 | 0.002 | mg/L | 01/30/08 KN |
| 200.8 | Antimony | 0.0009 J | 1 | 0.002 | 0.0004 | mg/L | 01/30/08 NVK |
| 200.8 | Arsenic | ND | 1 | 0.002 | 0.0006 | mg/L | 01/30/08 NVK |
| 200.8 | Cadmium | ND | 1 | 0.001 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Chromium | 0.0024 J | 1 | 0.005 | 0.0006 | mg/L | 01/30/08 NVK |
| 200.8 | Copper | 0.0018 J | 1 | 0.005 | 0.0002 | mg/L | 01/30/08 NVK |
| 200.8 | Lead | ND | 1 | 0.005 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Nickel | 0.004 J | 1 | 0.005 | 0.0003 | mg/L | 01/30/08 NVK |
| 200.8 | Selenium | 0.0027 | 1 | 0.002 | 0.0003 | mg/L | 01/30/08 NVK |
| 200.8 | Silver | ND | 1 | 0.005 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Thallium | ND | 1 | 0.001 | 0.0001 | mg/L | 01/30/08 NVK |
| 10200H | Chlorophyll | ND | 1 | 1.0 | | mg/M3 | 01/26/08 HK |
| 1664 | Total Oil and Grease | ND | 1 | 5 | 1.7 | mg/L | 01/28/08 LN |
| 2130B | Turbidity | 2.11 | 1 | 0.1 | 0.0 | NTU | 01/25/08 AE |
| 2320B | Bicarbonate | 232 | 1 | 5.0 | 1.0 | mg/L | 01/31/08 HK |
| 2510B | Specific Conductance | 1730 | 1 | 1.0 | 0.86 | umhos/c | 01/25/08 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

**Order #:** 867403 **Client Sample ID:** #11044350 Sandia Creek

**Matrix:** WATER **Sample Description:** #11044350 Sandia Creek

**Date Sampled:** 01/23/2008
**Time Sampled:** 13:20

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 2540C | Total Dissolved Solids | 1200 | 1 | 10.0 | 5.7 | mg/L | 01/25/08 LN |
| 300.0 | Chloride | 237 | 5 | 5.0 | 0.1 | mg/L | 01/25/08 WW |
| 300.0 | Nitrate (as NO3) | 27.3 | 1 | 0.44 | 0.07 | mg/L | 01/25/08 WW |
| 300.0 | Nitrite (as NO2) | ND | 1 | 0.33 | 0.06 | mg/L | 01/25/08 WW |
| 300.0 | Sulfate | 347 | 5 | 5.0 | 0.17 | mg/L | 01/25/08 WW |
| 335.4 | Cyanide | ND | 1 | 0.01 | 0.001 | mg/L | 01/29/08 TP |
| 350.1 | Ammonia -N | 0.15 | 1 | 0.1 | 0.01 | mg/L | 01/28/08 TP |
| 351.2 | Total Kjeldahl Nitrogen (TKN) | 0.23 J | 1 | 0.4 | 0.06 | mg/L | 01/28/08 TP |
| 4500-F C | Fluoride | 0.26 | 1 | 0.05 | 0.004 | mg/L | 01/25/08 CM |
| 4500-H | pH | 7.16 | 1 | | | NA | 01/25/08 HT |
| 4500-O G | Dissolved Oxygen | 9.01 | 1 | | | mg/L | 01/23/08 HT |
| 4500-P-B.5-E | Total Phosphorus as P | 0.03 | 1 | 0.02 | 0.01 | mg/L | 01/29/08 DK |
| 4500-P-E | Ortho Phosphate as PO4 | 0.06 | 1 | 0.06 | 0.015 | mg/L | 01/29/08 DK |
| 5210B | BOD | ND | 1 | 3.0 | 1.5 | mg/L | 01/25/08 LT |
| 5540C | MBAS | ND | 1 | 0.04 | 0.02 | mg/L | 01/25/08 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

**Order #:** 867403 **Client Sample ID:** #11044350 Sandia Creek

**Matrix:** WATER **Sample Description:** #11044350 Sandia Creek

**Date Sampled:** 01/23/2008
**Time Sampled:** 13:20

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 7470A | Mercury | ND | 1 | 0.0004 | 0.00005 | mg/L | 01/29/08 MDJ |
| 9221 | Fecal Coliform by MTF | 50 | 1 | | | MPN/10 | 01/23/08 RB |
| 5310B | Total Organic Carbon | 3.7 | 2 | 1.0 | 0.5 | mg/L | 01/29/08 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

**Order #:** 867404 **Client Sample ID**: Laboratory Method Blank

**Matrix:** WATER

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 200.7 | Aluminum | ND | 1 | 0.030 | 0.013 | mg/L | 01/30/08 KN |
| 200.7 | Beryllium | ND | 1 | 0.001 | 0.001 | mg/L | 01/30/08 KN |
| 200.7 | Boron | ND | 1 | 0.050 | 0.007 | mg/L | 01/30/08 KN |
| 200.7 | Calcium | ND | 1 | 0.10 | 0.004 | mg/L | 01/30/08 KN |
| 200.7 | Iron | ND | 1 | 0.02 | 0.002 | mg/L | 01/30/08 KN |
| 200.7 | Manganese | ND | 1 | 0.010 | 0.001 | mg/L | 01/30/08 KN |
| 200.7 | Sodium | ND | 1 | 0.50 | 0.12 | mg/L | 01/30/08 KN |
| 200.7 | Zinc | ND | 1 | 0.010 | 0.002 | mg/L | 01/30/08 KN |
| 200.8 | Antimony | ND | 1 | 0.002 | 0.0004 | mg/L | 01/30/08 NVK |
| 200.8 | Arsenic | ND | 1 | 0.002 | 0.0006 | mg/L | 01/30/08 NVK |
| 200.8 | Cadmium | ND | 1 | 0.001 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Chromium | ND | 1 | 0.005 | 0.0006 | mg/L | 01/30/08 NVK |
| 200.8 | Copper | ND | 1 | 0.005 | 0.0002 | mg/L | 01/30/08 NVK |
| 200.8 | Lead | ND | 1 | 0.005 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Nickel | ND | 1 | 0.005 | 0.0003 | mg/L | 01/30/08 NVK |
| 200.8 | Selenium | ND | 1 | 0.002 | 0.0003 | mg/L | 01/30/08 NVK |
| 200.8 | Silver | ND | 1 | 0.005 | 0.0001 | mg/L | 01/30/08 NVK |
| 200.8 | Thallium | ND | 1 | 0.001 | 0.0001 | mg/L | 01/30/08 NVK |
| 1664 | Total Oil and Grease | ND | 1 | 5 | 1.7 | mg/L | 01/26/08 HK |
| 2130B | Turbidity | ND | 1 | 0.1 | 0.0 | NTU | 01/28/08 LN |
| 2320B | Bicarbonate | ND | 1 | 5.0 | 1.0 | mg/L | 01/25/08 AE |
| 2510B | Specific Conductance | 0.62 | 1 | 1.0 | 0.86 | umhos/c | 01/25/08 LN |
| 2540C | Total Dissolved Solids | ND | 1 | 10.0 | 5.7 | mg/L | 01/25/08 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

**Order #:** 867404 **Client Sample ID:** Laboratory Method Blank

**Matrix:** WATER

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 300.0 | Chloride | ND | 1 | 1.0 | 0.1 | mg/L | 01/25/08 WW |
| 300.0 | Nitrate (as NO3) | ND | 1 | 0.44 | 0.07 | mg/L | 01/25/08 WW |
| 300.0 | Nitrite (as NO2) | ND | 1 | 0.33 | 0.06 | mg/L | 01/25/08 WW |
| 300.0 | Sulfate | ND | 1 | 1.0 | 0.17 | mg/L | 01/25/08 WW |
| 335.4 | Cyanide | ND | 1 | 0.01 | 0.001 | mg/L | 01/29/08 TP |
| 350.1 | Ammonia -N | ND | 1 | 0.1 | 0.01 | mg/L | 01/28/08 TP |
| 351.2 | Total Kjeldahl Nitrogen (TKN) | ND | 1 | 0.4 | 0.06 | mg/L | 01/28/08 TP |
| 4500-F C | Fluoride | ND | 1 | 0.05 | 0.004 | mg/L | 01/25/08 CM |
| 4500-H | pH | 6.20 | 1 | | | NA | 01/25/08 LN |
| 4500-O G | Dissolved Oxygen | 9.35 | 1 | | | mg/L | 01/23/08 HT |
| 4500-P-B.5-E | Total Phosphorus as P | ND | 1 | 0.02 | 0.01 | mg/L | 01/29/08 DK |
| 4500-P-E | Ortho Phosphate as PO4 | ND | 1 | 0.06 | 0.015 | mg/L | 01/29/08 DK |
| 5210B | BOD | ND | 1 | 3.0 | 1.5 | mg/L | 01/25/08 LT |
| 5540C | MBAS | ND | 1 | 0.04 | 0.02 | mg/L | 01/25/08 HK |
| 7470A | Mercury | ND | 1 | 0.0004 | 0.00005 | mg/L | 01/29/08 MDJ |

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

**Order #:** 867404 **Client Sample ID:** Laboratory Method Blank

**Matrix:** WATER

| Method | Analyte | Result | DF | EQL | MDL | Units | Date/Analyst |
|---|---|---|---|---|---|---|---|
| 5310B | Total Organic Carbon | ND | 1 | 0.5 | 0.5 | mg/L | 01/29/08 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

**QA REPORT FORM**

Method : 310.1

QC Sample: 205459-867283

Matrix: WATER

Analysis Date: January 31, 2008

Lab ID#'s in Batch: 205459, 205486, 205487, 205488, 205489, 205490

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

| Test | Sample Result | Sample Duplicate | %RPD |
|---|---|---|---|
| Bicarbonate | 262 | 262 | 0 |
| carbonat | ND | ND | 0 |
| Hydroxide | ND | ND | 0 |
| Alkalinity | 215 | 215 | 0 |

*ND = "U" - Not Detected*

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

*RPD LIMITS = 20%*

ASSOCIATED LABORATORIES

**QA REPORT FORM**

QC Sample : LR205377

Matrix: WATER

Prep.Date: January 28, 2008

Analysis Date: January 28, 2008

Lab ID#'s in Batch: LR205377, 205380, 205568, 205574, 205736, 205542, 205561, 205565, 205567, 205569, 205487, 205637, 205638, 205639, 205640, 205641, 205489, 205490, 205742.

REPORTING UNITS = mg/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

| | | PREP BLK | LCS | | | | |
|---|---|---|---|---|---|---|---|
| **Test** | **Method** | **Value** | **Result** | **True** | **%Rec** | **L.Limit** | **H.Limit** |
| O&G | 1664 | ND | 38.0 | 40 | 95 | 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: LR205527

Matrix: WATER

Prep. Date: January 25, 2008

Analysis Date: January 25, 2008

Lab ID#'s in Batch: LR205527, 205416, 205486, 205487, 205488, 205489, 205490, 205576, 205561, 205564

REPORTING UNITS = mg/L

### SAMPLE DUPLICATE RESULT

| Test | Method | Sample Result | Sample Duplicate | %RPD |
|---|---|---|---|---|
| TDS | 160-1 / 2540C | 433 | 436 | 1 |

*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 | 288 | 293 | 98 | 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: 205486-867392 H# 012908 W1

Matrix: WATER

Prep. Date: January 29, 2008

Analysis Date: January 30, 2008

Lab ID#'s in Batch: 205486, 205487, 205485, 205489, 205488, 205640, 205641, 205490, 205639, 205638 205637, 205505, 205503, 205502, 205504, 205655, 205688, 205561

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 | 0.062 | 1.0 | 0.97 | 0.96 | 91 | 90 | 1 |
| Se * | ND | 1.0 | 0.72 | 0.72 | 72 | 72 | 0 |
| Tl | ND | 1.0 | 0.86 | 0.86 | 86 | 86 | 0 |
| Pb | 0.009 | 1.0 | 0.86 | 0.86 | 85 | 85 | 0 |
| Sb | 0.071 | 1.0 | 1.05 | 1.03 | 98 | 96 | 2 |
| Ba | 0.039 | 1.0 | 0.99 | 0.97 | 95 | 93 | 2 |
| Be | ND | 1.0 | 0.94 | 0.96 | 94 | 96 | 2 |
| Cd | ND | 1.0 | 0.94 | 0.91 | 94 | 91 | 3 |
| Cr | ND | 1.0 | 0.97 | 0.94 | 97 | 94 | 3 |
| Co | ND | 1.0 | 0.90 | 0.86 | 90 | 86 | 5 |
| Cu | ND | 1.0 | 0.97 | 0.91 | 97 | 91 | 6 |
| Mo | 0.038 | 1.0 | 0.91 | 0.92 | 87 | 88 | 1 |
| Ni | ND | 1.0 | 0.91 | 0.88 | 91 | 88 | 3 |
| Ag | ND | 0.5 | 0.41 | 0.40 | 82 | 80 | 2 |
| V | ND | 1.0 | 0.97 | 0.94 | 97 | 94 | 3 |
| Zn | 0.114 | 1.0 | 0.90 | 0.88 | 79 | 77 | 2 |
| Al | 0.040 | 1.0 | 0.94 | 0.90 | 90 | 86 | 4 |
| Fe | 0.755 | 1.0 | 1.73 | 1.66 | 98 | 91 | 4 |
| Mn | 0.319 | 1.0 | 1.28 | 1.24 | 96 | 92 | 3 |
| B | 0.141 | 1.0 | 1.08 | 1.04 | 94 | 90 | 4 |
| Ca | 85.000 | 10.0 | 90.00 | 87.00 | NC | NC | 3 |
| Mg | 45.000 | 10.0 | 54.00 | 51.00 | NC | NC | 6 |
| K | 3.800 | 10.0 | 14.00 | 14.00 | 102 | 102 | 0 |
| Na | 103.000 | 10.0 | 111.00 | 108.00 | NC | NC | 3 |

* = 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 | QC Limit %REC | MB Limit | MB Result |
|---|---|---|---|---|---|---|
| Ag | 0.81 | 1 | 81 | 80-120 | 0.005 | ND |
| Al | 1.84 | 2 | 92 | 80-120 | 0.030 | ND |
| As | 1.78 | 2 | 89 | 80-120 | 0.005 | ND |
| B | 1.85 | 2 | 93 | 80-120 | 0.050 | ND |
| Ba | 1.81 | 2 | 91 | 80-120 | 0.010 | ND |
| Be | 2.01 | 2 | 101 | 80-120 | 0.005 | ND |
| Cd | 1.84 | 2 | 92 | 80-120 | 0.005 | ND |
| Co | 1.89 | 2 | 95 | 80-120 | 0.005 | ND |
| Cr | 1.91 | 2 | 96 | 80-120 | 0.010 | ND |
| Cu | 1.83 | 2 | 92 | 80-120 | 0.010 | ND |
| Fe | 1.80 | 2 | 90 | 80-120 | 0.020 | ND |
| Mn | 2.08 | 2 | 104 | 80-120 | 0.010 | ND |
| Mo | 1.80 | 2 | 90 | 80-120 | 0.010 | ND |
| Ni | 1.88 | 2 | 94 | 80-120 | 0.015 | ND |
| Pb | 1.84 | 2 | 92 | 80-120 | 0.005 | ND |
| Sb | 2.36 | 2 | 118 | 80-120 | 0.006 | ND |
| Se | 1.84 | 2 | 92 | 80-120 | 0.005 | ND |
| Tl | 1.91 | 2 | 96 | 80-120 | 0.005 | ND |
| V | 1.79 | 2 | 90 | 80-120 | 0.005 | ND |
| Zn | 1.79 | 2 | 90 | 80-120 | 0.010 | ND |
| Ca | 2.26 | 2 | 113 | 80-120 | 0.100 | ND |
| Mg | 2.06 | 2 | 103 | 80-120 | 0.100 | ND |
| K | 20.60 | 20 | 103 | 80-120 | 0.500 | ND |
| Na | 103.00 | 100 | 103 | 80-120 | 0.100 | ND |

# ASSOCIATED LABORATORIES
# QA REPORT FORM - METHOD 200.8

QC Sample: LR 205486-867392 H# 012908W11

Matrix: WATER

Prep. Date: January 29, 2008

Analysis Date: January 30, 2008

Lab ID#'s in Batch: LR 205486,205637, 205638, 205639, 205490, 205641, 205640, 205488, 205489, 205485, LR 205487, 205733, 205359, 205690, 205688.

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 | ND | 0.05 | 0.052 | 0.052 | 104 | 104 | 0 |
| Se | ND | 0.05 | 0.053 | 0.053 | 106 | 106 | 0 |
| Tl | ND | 0.05 | 0.046 | 0.047 | 92 | 94 | 2 |
| Pb | ND | 0.05 | 0.047 | 0.048 | 94 | 96 | 2 |
| Sb | ND | 0.05 | 0.057 | 0.059 | 114 | 118 | 3 |
| Cd | ND | 0.05 | 0.050 | 0.051 | 100 | 102 | 2 |
| Cr | 0.003 | 0.05 | 0.055 | 0.054 | 104 | 102 | 2 |
| Cu | ND | 0.05 | 0.047 | 0.048 | 94 | 96 | 2 |
| Ni | 0.003 | 0.05 | 0.049 | 0.049 | 92 | 92 | 0 |
| Ag | ND | 0.05 | 0.044 | 0.045 | 88 | 90 | 2 |

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

*% REC LIMITS = 70 - 130*
*RPD LIMITS = 20*

# ASSOCIATED LABORATORIES
# LCS REPORT FORM - METHOD 200.8

**LCS RECOVERY / METHOD BLANK**

| Test | LCS Result | True Value | LCS %Rec | QC Limit %REC | MB Limit | MB Result |
|---|---|---|---|---|---|---|
| Ag | 0.024 | 0.025 | 96 | 80-120 | 0.005 | ND |
| As | 0.047 | 0.05 | 94 | 80-120 | 0.002 | ND |
| Cd | 0.049 | 0.05 | 98 | 80-120 | 0.001 | ND |
| Cr | 0.052 | 0.05 | 104 | 80-120 | 0.002 | ND |
| Cu | 0.049 | 0.05 | 98 | 80-120 | 0.005 | ND |
| Ni | 0.049 | 0.05 | 98 | 80-120 | 0.005 | ND |
| Pb | 0.050 | 0.05 | 100 | 80-120 | 0.005 | ND |
| Sb | 0.050 | 0.05 | 100 | 80-120 | 0.002 | ND |
| Se | 0.046 | 0.05 | 92 | 80-120 | 0.005 | ND |
| Tl | 0.048 | 0.05 | 96 | 80-120 | 0.001 | ND |

ASSOCIATED LABORATORIES
**QA REPORT FORM**

QC Sample: LR 205637-868040

Matrix: WATER

Prep. Date: January 29, 2008

Analysis Date: January 29, 2008

Lab ID#'s in Batch: LR 205637, 205638, 205639, 205640, 205641, 205488, 205489, 205490, 205502, 205503, 205504, 205505, 20

**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 | 0.0020 | 0.0020 | 100 | 100 | 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 BLK | LCS | | | | |
|---|---|---|---|---|---|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 0.0053 | 0.005 | 106 | 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 : 205485-867390

Matrix: WATER

Prep. Date: 01/25/08

Analysis Date: 1/26-1/27/08

Lab ID#'s in Batch: 205485, 205488, 205489, 205487, 205490, 205486, 205502, 205503, 205504, 205505, 205576

## 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 | 79.1 | 200 | 267 | 267 | 94 | 94 | 0 |
| SO4 | 300.0 | 67 | 200 | 255 | 256 | 94 | 94 | 0 |
| NO3 | 300.0 | ND | 100 | 101 | 104 | 101 | 104 | 3 |
| NO2 | 300.0 | ND | 100 | 100.7 | 102.2 | 101 | 102 | 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 | 40.8 | 40 | 102 | 90% | 110% |
| SO4 | 300.0 | ND | 40.0 | 40 | 100 | 90% | 110% |
| NO3 | 300.0 | ND | 20.3 | 20 | 101 | 90% | 110% |
| NO2 | 300.0 | ND | 10.0 | 10 | 100 | 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: 205488-867400

Matrix: WATER

Prep. Date: January 29, 2008

Analysis Date: January 30, 2008

ID#'s in Batch: 205488, 205502, 205503, 205504, 205505, 205487, 205489, 205490, 205360, 205361, 205690, 205734, 205544

**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 | 0.560 | 0.560 | 112 | 112 | 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 | 0.104 | 0.10 | 104 | 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: LR 205502-867481

Matrix: WATER

Prep. Date: 01/25/2008

Analysis Date: 01/25/2008

Lab ID#'s in Batch: LR 205502, 205503, 205504, 205505, 205536, 205359, LR 205372, 205373, 205486, 205487, 205488, 205489, LR 205490

## 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 | 0.38 | 0.25 | 0.62 | 0.63 | 96 | 101 | 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 = 75 - 125* |
| *RPD LIMITS = 20* |

## PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLK | LCS | | | | |
|---|---|---|---|---|---|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 0.99 | 1.00 | 99 | 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: 205485-867390

Matrix: WATER

Prep. Date: 01/28/08

Analysis Date: 01/30/08

Lab ID#'s in Batch: 205485, 205486, 205490, 205748, 205487, 205488, 205489, 205637

**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 | 4.95 | 4.98 | 99 | 100 | 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
**QA REPORT FORM**

QC Sample: 205487-867395

Matrix: WATER

Prep. Date: 01/28/08

Analysis Date: 01/29/08

Lab ID#'s in Batch: 205487, 205488, 205489, 205694, 205748, 205638, 205640

**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 | 12.1 | 12.3 | 97 | 98 | 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 Value | LCS Result | True | %Rec | L.Limit | H.Limit |
|---|---|---|---|---|---|---|---|
| TKN | 351.2 | ND | 2.20 | 2.50 | 88 | 80% | 120% |

| Test | Method | DIG CHK Result | True | %Rec | L.Limit | H.Limit |
|---|---|---|---|---|---|---|
| TKN | 351.2 | 5.87 | 6.61 | 89 | 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: 205594-867887

Matrix: WATER

Prep. Date: 01/26/08

Analysis Date: 01/26/08

Lab ID#'s in Batch: 205594, 205485, 205486, 205487, 205488, 205489, 205490, 205606, 205637, 205638, 205639, 205640, 205641

## 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 | 0.23 | 1.53 | 1.75 | 1.76 | 99 | 100 | 1 |
| Ortho-Phosphate (as P) | 365.2 | 0.08 | 0.50 | 0.57 | 0.57 | 99 | 100 | 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: 205576-762

Matrix: WATER

Prep. Date: 01/29/08

Analysis Date: 01/29/08

Lab ID#'s in Batch: 205576, 205481, 205485, 205486, 205487, 205488, 205489, 205490, 205637, 205638, 205639, 205640, 205641, 205733, 205564

## 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) | 365.2 | 0.07 | 0.40 | 0.47 | 0.47 | 102 | 102 | 0 |
| Total Phosphate (as PO4) | 365.2 | 0.20 | 1.23 | 1.45 | 1.44 | 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) | 365.2 | ND | 0.32 | 0.33 | 99 | 80% | 120% |
| Total Phosphate (as PO4) | 365.2 | ND | 0.99 | 1.00 | 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*

ASSOCIATED LABORATORIES
**QA REPORT FORM**

QC Sample: 205482-344

Matrix: WATER

Prep. Date: January 25, 2008

Analysis Date: January 25, 2008

Lab ID#'s in Batch: 205482, 205447, 205486, 205487, 205488, 205489

**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 | 0.10 | 1.00 | 1.15 | 1.14 | 105 | 104 | 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 = 75 - 125* |
| *RPD LIMITS = 20* |

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

| PREP BLK | LCS | | | | |
|---|---|---|---|---|---|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 1.03 | 1.00 | 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: LR205639

Matrix: WATER

Prep. Date: January 29, 2008

Analysis Date: January 29, 2008

Lab ID#'s in Batch: LR205488, 205487, 205486, 205489, 205490

**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 | 1.7 | 10 | 13 | 13 | 108 | 108 | 0 |

*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* |

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

| PREP BLK | LCS | | | | |
|---|---|---|---|---|---|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 10 | 10 | 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*

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

205489

Client Name/Account #: Stetson Engineers Inc.
Address: 861 Village Oaks Dr., Suite 100
City/State/Zip: Covina, CA 91724 — Report To: Ken Reich
Project Manager: Ken Reich — Invoice To: 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: — Project #: 2258

| Sample ID / Description | Sampling Information | | | | | | Preservative | | | | | | | Analyze For: | | | | | | | | | | | | | Reporting | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY 2 JANUARY INDEX AND QUARTERLY SAMPLING | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Ice | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | 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 | Dissolved Oxygen | RUSH TAT | Standard TAT | Fax Results | Send QC with report |
| #11044350 Sandia Creek | 1/23/08 | 1:20P | 1 | X | | | X | X | | | | | | X | | | | | | | | | | | X | | X | |
| #11044350 Sandia Creek | | | ~~2~~ 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 | |
| #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 | |
| #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

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

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Tuan A. Nguyen | 01/23/08 | 4:55P | | 1-23-08 | 17:02 |
| **Relinquished by:** | **Date** | **Time** | **Received by Associated Labs:** | **Date** | **Time** |
| | | | | | |

1/25/08 8:50

*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: 1-23-08
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: 3.6°C

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

| Section 3 | YES | NO | N/A |
|---|---|---|---|
| Was a COC received? | ✓ | | |
| Were custody seals present? | | | ✓ |
| If Yes – were they intact? | | ✓ | |
| Were all samples sealed in plastic bags? | ✓ | | |
| Did all samples arrive intact? If no, indicate below. | ✓ | | |
| Did all bottle labels agree with COC? (ID, dates and times) | ✓ | | |
| Were correct containers used for the tests required? | ✓ | | |
| Was a sufficient amount of sample sent for tests indicated? | ✓ | | |
| No head space in VOA vials? | ✓ | | ✓ |
| Were the correct preservatives used? | ✓ | | |
| Were the samples scanned for presence of radioactivity? | | | ✓ |
| Was total residual chlorine measured (Fish Bioassay samples only)? * | | | ✓ |

*: 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: _____ Date: 1-23-08