

Amanda Smith
Abalone Coast Bacteriology
4149 Santa Fe Road #6
San Luis Obispo, CA 93401

Dear Amanda Smith,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Enclosed are the results of analyses for samples received by the laboratory on 07/23/2010 08:30.

If additional clarification of any information is required, please contact your Client Services Representative, Paul Erickson at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES



Paul Erickson
Client Services Representative

08/05/2010

Case Narrative

Work Order Information

Client Name: Abalone Coast Bacteriology
Client Code: Abalo1080
Work Order: AOG1836
Project: Main Project
Client Project: 10-1996 Wellwright

Submitted by: Amanda Smith
Shipped by: ONTRAC
COC Number:
TAT: 10
PO #:

Sample Receipt Conditions

Cooler: Default Cooler **Temp. °C:** 6

Containers Intact
COC/Labels Agree
Received On Blue Ice
Packing Material - Bubble Wrap
Packing Material - Paper
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Report Manager

Amanda Smith

Report Format

FAL Final Report.rpt

Certificate of Analysis

Amanda Smith
Abalone Coast Bacteriology
4149 Santa Fe Road #6
San Luis Obispo, CA 93401

Report Issue Date: 08/05/2010 11:59
Received Date: 07/23/2010
Received Time: 08:30

Lab Sample ID: A0G1836-01
Sample Date: 07/22/2010 07:50
Sample Type: Grab

Client Project: 10-1996 Wellwright
Sampled by: Client
Matrix: Ground Water

Sample Description: 8183 Lone Palm Horizon Well

General Chemistry

| Analyte | Method | Result | RL | Units | Dil. | Batch | Prepared | Analyzed | Qualifiers |
|-------------------------------------|--------------|--------|--------|-------------|------|---------|----------------|----------------|------------|
| *Aggressive Index | | 18 | | | | A006730 | 08/03/10 | 08/03/10 | |
| Alkalinity as CaCO ₃ | SM 2320 B | 1700 | 3.0 | mg/L | 1 | A006297 | 07/23/10 | 07/23/10 | |
| Bicarbonate as CaCO ₃ | SM 2320 B | ND | 3.0 | mg/L | 1 | A006297 | 07/23/10 | 07/23/10 | |
| Carbonate as CaCO ₃ | SM 2320 B | 750 | 3.0 | mg/L | 1 | A006297 | 07/23/10 | 07/23/10 | |
| Chloride | EPA 300.0 | 740 | 10 | mg/L | 10 | A006299 | 07/23/10 | 07/23/10 | |
| *Color | SM 2120 B | 5.0 | 1.0 | Color Units | 1 | A006313 | 07/23/10 17:48 | 07/23/10 17:48 | |
| Cyanide (total) | SM 4500-CN E | ND | 0.0050 | mg/L | 1 | A006570 | 07/30/10 | 08/02/10 | |
| Conductivity @ 25C | SM 2510 B | 7600 | 1.0 | umhos/cm | 1 | A006297 | 07/23/10 | 07/23/10 | |
| Fluoride | SM 4500-F C | 0.26 | 0.10 | mg/L | 1 | A006478 | 07/28/10 | 07/28/10 | |
| Hydroxide as CaCO ₃ | SM 2320 B | 960 | 3.0 | mg/L | 1 | A006297 | 07/23/10 | 07/23/10 | |
| Langelier Index | SM 2330 B | 5.8 | | | | A006730 | 08/03/10 | 08/03/10 | |
| MBAS, Calculated as LAS, mol wt 340 | SM 5540 C | ND | 0.050 | mg/L | 1 | A006355 | 07/23/10 17:16 | 07/23/10 17:16 | |
| Nitrate as NO ₃ | EPA 300.0 | ND | 10 | mg/L | 10 | A006299 | 07/23/10 18:28 | 07/23/10 18:28 | DL01 |
| Nitrite as N | EPA 300.0 | ND | 0.50 | mg/L | 10 | A006299 | 07/23/10 18:28 | 07/23/10 18:28 | DL01 |
| *Threshold Odor | SM 2150 B | 2.0 | 1.0 | T.O.N. | 1 | A006313 | 07/23/10 17:48 | 07/23/10 17:48 | |
| pH (1) | SM 4500-H+ B | 12.0 | | pH Units | 1 | A006297 | 07/23/10 | 07/23/10 | |
| pH Temperature in °C | | 23.3 | | | | | | | |
| Sulfate as SO ₄ | EPA 300.0 | 70 | 20 | mg/L | 10 | A006299 | 07/23/10 | 07/23/10 | |
| Total Dissolved Solids | SM 2540C | 1600 | 5.0 | mg/L | 1 | A006390 | 07/27/10 | 07/29/10 | |
| Bicarbonate as HCO ₃ | | ND | | mg/L | | | | | |
| Carbonate as CO ₃ | | 450 | | mg/L | | | | | |
| Hardness as CaCO ₃ | | 690 | | mg/L | | | | | |
| Hydroxide as OH | | 330 | | mg/L | | | | | |
| Turbidity | SM 2130 B | 0.20 | 0.10 | NTU | 1 | A006313 | 07/23/10 17:48 | 07/23/10 17:48 | |

Metals

| Analyte | Method | Result | RL | Units | Dil. | Batch | Prepared | Analyzed | Qualifiers |
|-----------|-----------|--------|-------|-------|------|---------|----------|----------|------------|
| Aluminum | EPA 200.7 | ND | 0.050 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Antimony | EPA 200.8 | ND | 2.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Arsenic | EPA 200.8 | ND | 2.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Barium | EPA 200.7 | 0.34 | 0.050 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Beryllium | EPA 200.8 | ND | 1.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Cadmium | EPA 200.8 | ND | 1.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Calcium | EPA 200.7 | 140 | 0.10 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Chromium | EPA 200.8 | ND | 10 | ug/L | 1 | A006757 | 08/04/10 | 08/04/10 | |

A0G1836 FINAL 08052010 1159



Certificate of Analysis

Amanda Smith
Abalone Coast Bacteriology
4149 Santa Fe Road #6
San Luis Obispo, CA 93401

Report Issue Date: 08/05/2010 11:59
Received Date: 07/23/2010
Received Time: 08:30

Lab Sample ID: A0G1836-01
Sample Date: 07/22/2010 07:50
Sample Type: Grab

Client Project: 10-1996 Wellwright
Sampled by: Client
Matrix: Ground Water

Sample Description: 8183 Lone Palm Horizon Well

Metals

| Analyte | Method | Result | RL | Units | Dil. | Batch | Prepared | Analyzed | Qualifiers |
|-----------|-----------|--------|-------|-------|------|---------|----------|----------|------------|
| Copper | EPA 200.8 | 20 | 5.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Iron | EPA 200.7 | ND | 0.050 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Lead | EPA 200.8 | ND | 5.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Magnesium | EPA 200.7 | 83 | 0.10 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Manganese | EPA 200.7 | 0.13 | 0.010 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Mercury | EPA 200.8 | ND | 0.40 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Nickel | EPA 200.8 | 12 | 10 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Potassium | EPA 200.7 | 3.5 | 2.0 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Selenium | EPA 200.8 | 11 | 2.0 | ug/L | 1 | A006757 | 08/04/10 | 08/04/10 | |
| Silver | EPA 200.8 | ND | 10 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Sodium | EPA 200.7 | 330 | 1.0 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |
| Thallium | EPA 200.8 | ND | 1.0 | ug/L | 1 | A006711 | 08/03/10 | 08/03/10 | |
| Zinc | EPA 200.7 | ND | 0.050 | mg/L | 1 | A006682 | 08/02/10 | 08/02/10 | |

General Chemistry Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Qualifiers |
|---------|--------|----|-------|-------------|---------------|------|--------|-----|-----------|------------|
|---------|--------|----|-------|-------------|---------------|------|--------|-----|-----------|------------|

Batch: A006297

Analyst: MIT

Prepared & Analyzed: 07/23/2010

Blank (A006297-BLK1)

SM 2320 B - Quality Control

| | | | |
|----------------------|----|-----|---------|
| Alkalinity as CaCO3 | ND | 3.0 | mg/L |
| Bicarbonate as CaCO3 | ND | 3.0 | mg/L |
| Carbonate as CaCO3 | ND | 3.0 | mg/L |
| Conductivity @ 25C | ND | 1.0 | mhos/cm |
| Hydroxide as CaCO3 | ND | 3.0 | mg/L |

Blank Spike (A006297-BS1)

SM 2320 B - Quality Control

| | | | | | | |
|---------------------|----|-----|------|-----|----|--------|
| Alkalinity as CaCO3 | 99 | 3.0 | mg/L | 100 | 99 | 80-120 |
|---------------------|----|-----|------|-----|----|--------|

Blank Spike Dup (A006297-BSD1)

SM 2320 B - Quality Control

| | | | | | | | | |
|---------------------|-----|-----|------|-----|-----|--------|-----|----|
| Alkalinity as CaCO3 | 100 | 3.0 | mg/L | 100 | 100 | 80-120 | 0.2 | 20 |
|---------------------|-----|-----|------|-----|-----|--------|-----|----|

Duplicate (A006297-DUP1)

SM 2320 B - Quality Control

Source: A0G1887-03

| | | | | | | | |
|----------------------|-----|-----|----------|-----|-----|----|------|
| Alkalinity as CaCO3 | 71 | 3.0 | mg/L | 72 | 1 | 10 | |
| Bicarbonate as CaCO3 | 61 | 3.0 | mg/L | 61 | 0.6 | 10 | |
| Carbonate as CaCO3 | 10 | 3.0 | mg/L | 11 | 11 | 10 | DP01 |
| Conductivity @ 25C | 190 | 1.0 | mhos/cm | 190 | 0.5 | 20 | |
| Hydroxide as CaCO3 | ND | 3.0 | mg/L | ND | | 10 | |
| pH (1) | 8.7 | | pH Units | 8.7 | 0.1 | 20 | |

Batch: A006299

Analyst: AJT

Prepared & Analyzed: 07/23/2010

Blank (A006299-BLK1)

EPA 300.0 - Quality Control

| | | | |
|----------------|----|-------|------|
| Chloride | ND | 1.0 | mg/L |
| Nitrate as NO3 | ND | 1.0 | mg/L |
| Nitrite as N | ND | 0.050 | mg/L |
| Sulfate as SO4 | ND | 2.0 | mg/L |

Blank Spike (A006299-BS1)

EPA 300.0 - Quality Control

| | | | | | | |
|----------------|------|-------|------|------|-----|--------|
| Chloride | 50 | 1.0 | mg/L | 50 | 100 | 90-110 |
| Nitrate as NO3 | 50 | 1.0 | mg/L | 50 | 100 | 90-110 |
| Nitrite as N | 0.53 | 0.050 | mg/L | 0.50 | 106 | 90-110 |
| Sulfate as SO4 | 50 | 2.0 | mg/L | 50 | 100 | 90-110 |

Blank Spike Dup (A006299-BSD1)

EPA 300.0 - Quality Control

| | | | | | | | | |
|----------------|------|-------|------|------|-----|--------|-----|----|
| Chloride | 50 | 1.0 | mg/L | 50 | 101 | 90-110 | 1 | 10 |
| Nitrate as NO3 | 50 | 1.0 | mg/L | 50 | 101 | 90-110 | 0.9 | 10 |
| Nitrite as N | 0.49 | 0.050 | mg/L | 0.50 | 98 | 90-110 | 9 | 10 |
| Sulfate as SO4 | 51 | 2.0 | mg/L | 50 | 101 | 90-110 | 1 | 10 |

Matrix Spike (A006299-MS1)

EPA 300.0 - Quality Control

Source: A0G1859-01

| | | | | | | | |
|----------------|-----|------|------|-----|-----|-----|--------|
| Chloride | 140 | 2.0 | mg/L | 100 | 32 | 103 | 80-120 |
| Nitrate as NO3 | 120 | 2.0 | mg/L | 100 | 15 | 104 | 80-120 |
| Nitrite as N | 1.1 | 0.10 | mg/L | 1.0 | ND | 110 | 80-120 |
| Sulfate as SO4 | 110 | 4.0 | mg/L | 100 | 9.7 | 105 | 80-120 |

Matrix Spike Dup (A006299-MSD1)

EPA 300.0 - Quality Control

Source: A0G1859-01

A0G1836 FINAL 08052010 1159

1414 Stanislaus Street

Fresno, CA 93706

(559) 497-2888

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www.bsklabs.com

An Employee-Owned Company | Analytical Testing | Construction Observation
Environmental Engineering | Geotechnical Engineering | Materials Testing

General Chemistry Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Qualifiers |
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|

Batch: A006299

Analyst: AJT

Prepared & Analyzed: 07/23/2010

Matrix Spike Dup (A006299-MSD1)

EPA 300.0 - Quality Control

Source: A0G1859-01

| | | | | | | | | | |
|----------------|-----|------|------|-----|-----|-----|--------|-----|----|
| Chloride | 140 | 2.0 | mg/L | 100 | 32 | 104 | 80-120 | 0.3 | 10 |
| Nitrate as NO3 | 120 | 2.0 | mg/L | 100 | 15 | 104 | 80-120 | 0.1 | 10 |
| Nitrite as N | 1.0 | 0.10 | mg/L | 1.0 | ND | 105 | 80-120 | 5 | 10 |
| Sulfate as SO4 | 110 | 4.0 | mg/L | 100 | 9.7 | 104 | 80-120 | 0.8 | 10 |

Batch: A006313

Analyst: CEG

Prepared & Analyzed: 07/23/2010

Blank (A006313-BLK1)

SM 2120 B - Quality Control

| | | | | | | | | | |
|----------------|----|------|------------|--|--|--|--|--|--|
| Color | ND | 1.0 | olor Units | | | | | | |
| Threshold Odor | ND | 1.0 | T.O.N. | | | | | | |
| Turbidity | ND | 0.10 | NTU | | | | | | |

Duplicate (A006313-DUP1)

SM 2120 B - Quality Control

Source: A0G1846-01

| | | | | | | | | | |
|----------------|------|------|------------|--|------|--|--|---|----|
| Color | ND | 1.0 | olor Units | | ND | | | | 20 |
| Threshold Odor | ND | 1.0 | T.O.N. | | ND | | | | 20 |
| Turbidity | 0.19 | 0.10 | NTU | | 0.20 | | | 5 | 20 |

Batch: A006355

Analyst: MIT

Prepared & Analyzed: 07/23/2010

Blank (A006355-BLK1)

SM 5540 C - Quality Control

| | | | | | | | | | |
|-------------------------------------|----|-------|------|--|--|--|--|--|--|
| MBAS, Calculated as LAS, mol wt 340 | ND | 0.050 | mg/L | | | | | | |
|-------------------------------------|----|-------|------|--|--|--|--|--|--|

Blank Spike (A006355-BS1)

SM 5540 C - Quality Control

| | | | | | | | | | |
|-------------------------------------|-----|-------|------|-----|--|-----|--------|--|--|
| MBAS, Calculated as LAS, mol wt 340 | 1.1 | 0.050 | mg/L | 1.0 | | 107 | 80-120 | | |
|-------------------------------------|-----|-------|------|-----|--|-----|--------|--|--|

Blank Spike Dup (A006355-BSD1)

SM 5540 C - Quality Control

| | | | | | | | | | |
|-------------------------------------|-----|-------|------|-----|--|-----|--------|---|----|
| MBAS, Calculated as LAS, mol wt 340 | 1.1 | 0.050 | mg/L | 1.0 | | 111 | 80-120 | 4 | 20 |
|-------------------------------------|-----|-------|------|-----|--|-----|--------|---|----|

Matrix Spike (A006355-MS1)

SM 5540 C - Quality Control

Source: A0G1898-01

| | | | | | | | | | |
|-------------------------------------|-----|-------|------|-----|----|-----|--------|--|--|
| MBAS, Calculated as LAS, mol wt 340 | 1.0 | 0.050 | mg/L | 1.0 | ND | 101 | 80-120 | | |
|-------------------------------------|-----|-------|------|-----|----|-----|--------|--|--|

Matrix Spike Dup (A006355-MSD1)

SM 5540 C - Quality Control

Source: A0G1898-01

| | | | | | | | | | |
|-------------------------------------|-----|-------|------|-----|----|-----|--------|---|----|
| MBAS, Calculated as LAS, mol wt 340 | 1.0 | 0.050 | mg/L | 1.0 | ND | 103 | 80-120 | 2 | 20 |
|-------------------------------------|-----|-------|------|-----|----|-----|--------|---|----|

Batch: A006390

Analyst: DEH

Prepared: 07/27/2010 Analyzed: 07/29/2010

Blank (A006390-BLK1)

SM 2540C - Quality Control

| | | | | | | | | | |
|------------------------|----|-----|------|--|--|--|--|--|--|
| Total Dissolved Solids | ND | 5.0 | mg/L | | | | | | |
|------------------------|----|-----|------|--|--|--|--|--|--|

Blank (A006390-BLK2)

SM 2540C - Quality Control

| | | | | | | | | | |
|------------------------|----|-----|------|--|--|--|--|--|--|
| Total Dissolved Solids | ND | 5.0 | mg/L | | | | | | |
|------------------------|----|-----|------|--|--|--|--|--|--|

Duplicate (A006390-DUP1)

SM 2540C - Quality Control

Source: A0G1827-01

| | | | | | | | | | |
|------------------------|-----|-----|------|--|-----|--|--|-----|----|
| Total Dissolved Solids | 790 | 5.0 | mg/L | | 790 | | | 0.6 | 20 |
|------------------------|-----|-----|------|--|-----|--|--|-----|----|

Duplicate (A006390-DUP2)

SM 2540C - Quality Control

Source: A0G1890-01

| | | | | | | | | | |
|------------------------|-----|-----|------|--|-----|--|--|---|----|
| Total Dissolved Solids | 440 | 5.0 | mg/L | | 430 | | | 1 | 20 |
|------------------------|-----|-----|------|--|-----|--|--|---|----|

Batch: A006478

Analyst: RMJ

Prepared & Analyzed: 07/28/2010

A0G1836 FINAL 08052010 1159

General Chemistry Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Qualifiers |
|---------------------------------|--------|--------|-------|--------------------------------|---------------|------|---|-----|-----------|------------|
| | | | | | | | | | | |
| Blank (A006478-BLK1) | | | | SM 4500-F C - Quality Control | | | | | | |
| Fluoride | ND | 0.10 | mg/L | | | | | | | |
| Blank Spike (A006478-BS1) | | | | SM 4500-F C - Quality Control | | | | | | |
| Fluoride | 1.0 | 0.10 | mg/L | 1.0 | | 102 | 80-120 | | | |
| Blank Spike Dup (A006478-BSD1) | | | | SM 4500-F C - Quality Control | | | | | | |
| Fluoride | 1.0 | 0.10 | mg/L | 1.0 | | 103 | 80-120 | 1 | 20 | |
| Matrix Spike (A006478-MS1) | | | | SM 4500-F C - Quality Control | | | Source: A0G1756-01 | | | |
| Fluoride | 1.1 | 0.10 | mg/L | 1.0 | 0.16 | 92 | 80-120 | | | |
| Matrix Spike (A006478-MS2) | | | | SM 4500-F C - Quality Control | | | Source: A0G1886-01 | | | |
| Fluoride | 1.2 | 0.10 | mg/L | 1.0 | 0.23 | 94 | 80-120 | | | |
| Matrix Spike Dup (A006478-MSD1) | | | | SM 4500-F C - Quality Control | | | Source: A0G1756-01 | | | |
| Fluoride | 1.1 | 0.10 | mg/L | 1.0 | 0.16 | 95 | 80-120 | 3 | 20 | |
| Matrix Spike Dup (A006478-MSD2) | | | | SM 4500-F C - Quality Control | | | Source: A0G1886-01 | | | |
| Fluoride | 1.2 | 0.10 | mg/L | 1.0 | 0.23 | 96 | 80-120 | 2 | 20 | |
| Batch: A006570 | | | | | Analyst: MAT | | Prepared: 07/30/2010 Analyzed: 08/02/2010 | | | |
| | | | | | | | | | | |
| Blank (A006570-BLK1) | | | | SM 4500-CN E - Quality Control | | | | | | |
| Cyanide (total) | ND | 0.0050 | mg/L | | | | | | | |
| Blank Spike (A006570-BS1) | | | | SM 4500-CN E - Quality Control | | | | | | |
| Cyanide (total) | 0.53 | 0.0050 | mg/L | 0.50 | | 106 | 80-120 | | | |
| Blank Spike Dup (A006570-BSD1) | | | | SM 4500-CN E - Quality Control | | | | | | |
| Cyanide (total) | 0.55 | 0.0050 | mg/L | 0.50 | | 109 | 80-120 | 3 | 20 | |
| Matrix Spike (A006570-MS1) | | | | SM 4500-CN E - Quality Control | | | Source: A0G1697-01 | | | |
| Cyanide (total) | 0.50 | 0.0050 | mg/L | 0.50 | ND | 100 | 80-120 | | | |
| Matrix Spike Dup (A006570-MSD1) | | | | SM 4500-CN E - Quality Control | | | Source: A0G1697-01 | | | |
| Cyanide (total) | 0.51 | 0.0050 | mg/L | 0.50 | ND | 102 | 80-120 | 2 | 20 | |

Metals Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Qualifiers |
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|

Batch: A006682

Analyst: NRE

Prepared & Analyzed: 08/02/2010

Blank (A006682-BLK1)

EPA 200.7 - Quality Control

| | | | |
|-----------|----|-------|------|
| Aluminum | ND | 0.050 | mg/L |
| Barium | ND | 0.050 | mg/L |
| Calcium | ND | 0.10 | mg/L |
| Iron | ND | 0.050 | mg/L |
| Magnesium | ND | 0.10 | mg/L |
| Manganese | ND | 0.010 | mg/L |
| Potassium | ND | 2.0 | mg/L |
| Sodium | ND | 1.0 | mg/L |
| Zinc | ND | 0.050 | mg/L |

Blank Spike (A006682-BS1)

EPA 200.7 - Quality Control

| | | | | | | |
|-----------|------|-------|------|------|-----|--------|
| Aluminum | 0.41 | 0.050 | mg/L | 0.40 | 102 | 85-115 |
| Barium | 0.42 | 0.050 | mg/L | 0.40 | 105 | 85-115 |
| Calcium | 11 | 0.10 | mg/L | 10 | 106 | 85-115 |
| Iron | 4.0 | 0.050 | mg/L | 4.0 | 101 | 85-115 |
| Magnesium | 10 | 0.10 | mg/L | 10 | 103 | 85-115 |
| Manganese | 0.42 | 0.010 | mg/L | 0.40 | 105 | 85-115 |
| Potassium | 10 | 2.0 | mg/L | 10 | 103 | 85-115 |
| Sodium | 10 | 1.0 | mg/L | 10 | 103 | 85-115 |
| Zinc | 0.42 | 0.050 | mg/L | 0.40 | 105 | 85-115 |

Blank Spike Dup (A006682-BSD1)

EPA 200.7 - Quality Control

| | | | | | | | | |
|-----------|------|-------|------|------|-----|--------|---|----|
| Aluminum | 0.43 | 0.050 | mg/L | 0.40 | 107 | 85-115 | 5 | 20 |
| Barium | 0.43 | 0.050 | mg/L | 0.40 | 108 | 85-115 | 4 | 20 |
| Calcium | 11 | 0.10 | mg/L | 10 | 110 | 85-115 | 4 | 20 |
| Iron | 4.2 | 0.050 | mg/L | 4.0 | 105 | 85-115 | 4 | 20 |
| Magnesium | 11 | 0.10 | mg/L | 10 | 106 | 85-115 | 4 | 20 |
| Manganese | 0.44 | 0.010 | mg/L | 0.40 | 109 | 85-115 | 4 | 20 |
| Potassium | 11 | 2.0 | mg/L | 10 | 107 | 85-115 | 4 | 20 |
| Sodium | 11 | 1.0 | mg/L | 10 | 107 | 85-115 | 3 | 20 |
| Zinc | 0.44 | 0.050 | mg/L | 0.40 | 111 | 85-115 | 5 | 20 |

Matrix Spike (A006682-MS1)

EPA 200.7 - Quality Control

Source: A0G1830-01

| | | | | | | | |
|-----------|------|-------|------|------|-------|-----|--------|
| Aluminum | 0.77 | 0.050 | mg/L | 0.80 | ND | 96 | 70-130 |
| Barium | 0.87 | 0.050 | mg/L | 0.80 | 0.061 | 101 | 70-130 |
| Calcium | 64 | 0.10 | mg/L | 20 | 45 | 93 | 70-130 |
| Iron | 7.8 | 0.050 | mg/L | 8.0 | 0.031 | 97 | 70-130 |
| Magnesium | 45 | 0.10 | mg/L | 20 | 27 | 93 | 70-130 |
| Manganese | 0.80 | 0.010 | mg/L | 0.80 | ND | 100 | 70-130 |
| Potassium | 20 | 2.0 | mg/L | 20 | ND | 102 | 70-130 |
| Sodium | 33 | 1.0 | mg/L | 20 | 14 | 97 | 70-130 |
| Zinc | 0.98 | 0.050 | mg/L | 0.80 | 0.18 | 100 | 70-130 |

Matrix Spike Dup (A006682-MSD1)

EPA 200.7 - Quality Control

Source: A0G1830-01

| | | | | | | | | | |
|----------|------|-------|------|------|-------|-----|--------|---|----|
| Aluminum | 0.76 | 0.050 | mg/L | 0.80 | ND | 95 | 70-130 | 1 | 20 |
| Barium | 0.86 | 0.050 | mg/L | 0.80 | 0.061 | 100 | 70-130 | 1 | 20 |

A0G1836 FINAL 08052010 1159

Metals Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Qualifiers |
|---------|--------|----|-------|-------------|---------------|------|--------|-----|-------|------------|
|---------|--------|----|-------|-------------|---------------|------|--------|-----|-------|------------|

Batch: A006682

Analyst: NRE

Prepared & Analyzed: 08/02/2010

Matrix Spike Dup (A006682-MSD1)

EPA 200.7 - Quality Control

Source: A0G1830-01

| | | | | | | | | | |
|-----------|------|-------|------|------|-------|-----|--------|-----|----|
| Calcium | 63 | 0.10 | mg/L | 20 | 45 | 88 | 70-130 | 1 | 20 |
| Iron | 7.8 | 0.050 | mg/L | 8.0 | 0.031 | 97 | 70-130 | 0.6 | 20 |
| Magnesium | 45 | 0.10 | mg/L | 20 | 27 | 92 | 70-130 | 0.5 | 20 |
| Manganese | 0.80 | 0.010 | mg/L | 0.80 | ND | 100 | 70-130 | 0.2 | 20 |
| Potassium | 20 | 2.0 | mg/L | 20 | ND | 102 | 70-130 | 0.5 | 20 |
| Sodium | 33 | 1.0 | mg/L | 20 | 14 | 95 | 70-130 | 1 | 20 |
| Zinc | 0.98 | 0.050 | mg/L | 0.80 | 0.18 | 100 | 70-130 | 0.2 | 20 |

Batch: A006711

Analyst: MAS

Prepared & Analyzed: 08/03/2010

Blank (A006711-BLK1)

EPA 200.8 - Quality Control

| | | | | | | | | | |
|-----------|----|------|------|--|--|--|--|--|--|
| Antimony | ND | 2.0 | ug/L | | | | | | |
| Arsenic | ND | 2.0 | ug/L | | | | | | |
| Beryllium | ND | 1.0 | ug/L | | | | | | |
| Cadmium | ND | 1.0 | ug/L | | | | | | |
| Copper | ND | 5.0 | ug/L | | | | | | |
| Lead | ND | 5.0 | ug/L | | | | | | |
| Mercury | ND | 0.40 | ug/L | | | | | | |
| Nickel | ND | 10 | ug/L | | | | | | |
| Silver | ND | 10 | ug/L | | | | | | |
| Thallium | ND | 1.0 | ug/L | | | | | | |

Blank Spike (A006711-BS1)

EPA 200.8 - Quality Control

| | | | | | | | | | |
|-----------|------|------|------|-----|-----|--------|--|--|--|
| Antimony | 50 | 2.0 | ug/L | 50 | 100 | 85-115 | | | |
| Arsenic | 49 | 2.0 | ug/L | 50 | 98 | 85-115 | | | |
| Beryllium | 49 | 1.0 | ug/L | 50 | 99 | 85-115 | | | |
| Cadmium | 49 | 1.0 | ug/L | 50 | 98 | 85-115 | | | |
| Copper | 50 | 5.0 | ug/L | 50 | 100 | 85-115 | | | |
| Lead | 51 | 5.0 | ug/L | 50 | 102 | 85-115 | | | |
| Mercury | 0.94 | 0.40 | ug/L | 1.0 | 94 | 85-115 | | | |
| Nickel | 50 | 10 | ug/L | 50 | 99 | 85-115 | | | |
| Silver | 52 | 10 | ug/L | 50 | 105 | 75-125 | | | |
| Thallium | 51 | 1.0 | ug/L | 50 | 101 | 85-115 | | | |

Blank Spike Dup (A006711-BSD1)

EPA 200.8 - Quality Control

| | | | | | | | | |
|-----------|-----|------|------|-----|-----|--------|-----|----|
| Antimony | 50 | 2.0 | ug/L | 50 | 100 | 85-115 | 0.4 | 20 |
| Arsenic | 50 | 2.0 | ug/L | 50 | 99 | 85-115 | 2 | 20 |
| Beryllium | 51 | 1.0 | ug/L | 50 | 102 | 85-115 | 3 | 20 |
| Cadmium | 49 | 1.0 | ug/L | 50 | 99 | 85-115 | 0.6 | 20 |
| Copper | 51 | 5.0 | ug/L | 50 | 103 | 85-115 | 2 | 20 |
| Lead | 51 | 5.0 | ug/L | 50 | 103 | 85-115 | 0.5 | 20 |
| Mercury | 1.0 | 0.40 | ug/L | 1.0 | 102 | 85-115 | 8 | 20 |
| Nickel | 49 | 10 | ug/L | 50 | 98 | 85-115 | 1 | 20 |
| Silver | 53 | 10 | ug/L | 50 | 107 | 75-125 | 2 | 20 |
| Thallium | 50 | 1.0 | ug/L | 50 | 99 | 85-115 | 2 | 20 |

Metals Quality Control Report

| Analyte | Result | RL | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Qualifiers |
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|
|---------|--------|----|-------|-------------|---------------|-------------|-----|-----------|------------|

Batch: A006711

Analyst: MAS

Prepared & Analyzed: 08/03/2010

Matrix Spike (A006711-MS1)

EPA 200.8 - Quality Control

Source: A0G1827-01

| | | | | | | | |
|-----------|-----|------|------|-----|-----|-----|--------|
| Antimony | 100 | 4.0 | ug/L | 100 | ND | 103 | 70-130 |
| Arsenic | 110 | 4.0 | ug/L | 100 | ND | 111 | 70-130 |
| Beryllium | 100 | 2.0 | ug/L | 100 | ND | 103 | 70-130 |
| Cadmium | 100 | 2.0 | ug/L | 100 | ND | 101 | 70-130 |
| Copper | 96 | 10 | ug/L | 100 | 2.5 | 93 | 70-130 |
| Lead | 98 | 10 | ug/L | 100 | ND | 98 | 70-130 |
| Mercury | 1.9 | 0.80 | ug/L | 2.0 | ND | 94 | 70-130 |
| Nickel | 98 | 20 | ug/L | 100 | 10 | 88 | 70-130 |
| Silver | 98 | 20 | ug/L | 100 | ND | 98 | 70-130 |
| Thallium | 99 | 2.0 | ug/L | 100 | ND | 99 | 70-130 |

Matrix Spike Dup (A006711-MSD1)

EPA 200.8 - Quality Control

Source: A0G1827-01

| | | | | | | | | | |
|-----------|-----|------|------|-----|-----|-----|--------|-----|----|
| Antimony | 100 | 4.0 | ug/L | 100 | ND | 104 | 70-130 | 0.7 | 20 |
| Arsenic | 110 | 4.0 | ug/L | 100 | ND | 113 | 70-130 | 2 | 20 |
| Beryllium | 100 | 2.0 | ug/L | 100 | ND | 103 | 70-130 | 0.5 | 20 |
| Cadmium | 98 | 2.0 | ug/L | 100 | ND | 98 | 70-130 | 2 | 20 |
| Copper | 94 | 10 | ug/L | 100 | 2.5 | 91 | 70-130 | 2 | 20 |
| Lead | 98 | 10 | ug/L | 100 | ND | 98 | 70-130 | 0.2 | 20 |
| Mercury | 2.1 | 0.80 | ug/L | 2.0 | ND | 104 | 70-130 | 10 | 20 |
| Nickel | 100 | 20 | ug/L | 100 | 10 | 91 | 70-130 | 2 | 20 |
| Silver | 97 | 20 | ug/L | 100 | ND | 97 | 70-130 | 0.4 | 20 |
| Thallium | 98 | 2.0 | ug/L | 100 | ND | 98 | 70-130 | 2 | 20 |

Batch: A006757

Analyst: MAS

Prepared & Analyzed: 08/04/2010

Blank (A006757-BLK1)

EPA 200.8 - Quality Control

| | | | |
|----------|----|-----|------|
| Chromium | ND | 10 | ug/L |
| Selenium | ND | 2.0 | ug/L |

Blank Spike (A006757-BS1)

EPA 200.8 - Quality Control

| | | | | | | |
|----------|-----|-----|------|-----|-----|--------|
| Chromium | 200 | 10 | ug/L | 200 | 101 | 85-115 |
| Selenium | 210 | 2.0 | ug/L | 200 | 103 | 85-115 |

Blank Spike Dup (A006757-BSD1)

EPA 200.8 - Quality Control

| | | | | | | | | |
|----------|-----|-----|------|-----|-----|--------|---|----|
| Chromium | 200 | 10 | ug/L | 200 | 100 | 85-115 | 1 | 20 |
| Selenium | 190 | 2.0 | ug/L | 200 | 95 | 85-115 | 7 | 20 |

Matrix Spike (A006757-MS1)

EPA 200.8 - Quality Control

Source: A0G2341-01

| | | | | | | | |
|----------|-----|-----|------|-----|----|-----|--------|
| Chromium | 230 | 10 | ug/L | 200 | 19 | 103 | 70-130 |
| Selenium | 170 | 2.0 | ug/L | 200 | ND | 86 | 70-130 |

Matrix Spike Dup (A006757-MSD1)

EPA 200.8 - Quality Control

Source: A0G2341-01

| | | | | | | | | | |
|----------|-----|-----|------|-----|----|-----|--------|-----|----|
| Chromium | 220 | 10 | ug/L | 200 | 19 | 102 | 70-130 | 0.9 | 20 |
| Selenium | 160 | 2.0 | ug/L | 200 | ND | 79 | 70-130 | 8 | 20 |

Certificate of Analysis

08/05/2010

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals. Samples submitted to the laboratory have been analyzed outside of this holding time requirement.
- * - This is not a NELAP accredited analyte.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- (2) The digestion used to produce this result deviated from EPA 200.2 by excluding hydrochloric acid in order to produce acceptable recoveries for affected metals.

Certifications:

| | |
|------------------------------------|--------------|
| State of California - CDPH - ELAP | 1180 |
| State of California - CDPH - NELAP | 04227CA |
| State of New Mexico - NMED-DWB | |
| State of Nevada - NDEP | CA000792009A |

Definitions and Flags for Data Qualifiers

| | | | | | |
|--------|--------------------------------|--------|------------------------|----------|------------------------|
| mg/L: | Milligrams/Liter (ppm) | M: | Method Detection Limit | MDA: | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm) | RL: | Reporting Limit | MPN: | Most Probable Number |
| µg/L: | Micrograms/Liter (ppb) | | :DL x Dilution | CFU: | Colony Forming Unit |
| µg/Kg: | Micrograms/Kilogram (ppb) | ND: | None Detected at RL | Absent: | Less than 1 CFU/100mLs |
| %: | Percent Recovered (surrogates) | pCi/L: | Picocuries per Liter | Present: | 1 or more CFU/100mLs |

DP01 Sample RPD exceeded the method acceptance limit.

DL01 Sample required dilution due to matrix or high concentration of non-target analyte.

A0G1836

Abalone Coast Bacteriology

Abalo1080

07232010

Amanda Smith

Turnaround: Standard

Main Project

Due Date: 08/06/2010

| Sample ID | Sample Description | Date Sampled | Lab Notes |
|------------|-----------------------------|--------------|----------------|
| A0G1836-01 | 8183 Lone Palm Horizon Well | 07/22/2010 | Limited Volume |



DUE Chain-Of-Custody

Subcontract

24-Hour 48 - Hour Normal

Client Name:

Address

City

State

Zip

Abalone Coast Bact

4149 Santa Fe Rd. #6 San Luis Obispo

CA

93401

Bill To: same as above

PROJECT

10-1996 wellwright

Phone # 805-595-1080

Email: abalonecoast@yahoo.com

Cell # 805-235-2330

| Location | Date/Time | ANALYSIS | Matrix | # Jars | Type / Preserve | LAB ID # |
|---------------------------------------|--------------|----------------------------|--------|--------|-----------------|----------|
| 8183 Lone Palm | 7/22/10 0750 | Gen Mtn / Plugs / I/O | Gr | 4 | plump | |
| Horizon well | | | | | AG-1500 | |
| | | | | | PHMD3 | |
| | | | | | PHMDH | |
| Relinquished By: <i>Caranda Shuff</i> | | Received By: | | | | |
| Date/Time 7/22/10 1800 | | Date/Time | | | | |
| | | Received By: <i>800 JA</i> | | | | |
| | | Date/Time 7/23/10 0830 | | | | |

filepath: c:\business\doc\forms\subcontract form

State forms needed - Y/N ☒

Sampler name:

Sampler employed by:

USER ID

System number

System name

Remarks:

please call if not enough sample

WORK NOTE: limited volume of sample.

as per ml 7/23/10 if

Sample Integrity

Pg. 1 of 2 WORKA0G1836
Abalo1080

07/23/2010

10

Date Received

7/23/10

Section 1- Receiving Information

Sample Transport: ONTRAC UPS PMS Walk-In BSK-Courier GSO Fed Exp. Other: _____Samples arrived at lab on same day sampled: Yes _____ No X (If Yes- Temperature is not needed)

Coolers/Ice Chests Description/Temperature(s): (If more than 4 received, list information in comment section)

1) 6' 2) _____ 3) _____ 4) _____Was Temperature In Range: Y N N/A Received On Ice: Wet Blue Received Ambient: Y NDescribe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____Initial Receipt: BSK-Visalia BSK-Bakersfield BSK-SAC BSK-FDL BSK-FAIWere ice chest custody seals present? Y N Intact: Y N

Section 2- COC Info.

| | Completed Yes | No | Info From Container | | Completed Yes | No | Info From Container |
|-------------------------------|------------------|----|------------------------|-------------------------------|------------------|----|------------------------|
| Was COC Received | <u>()</u> | | | Analysis Requested | <u>()</u> | | |
| Date Sampled | <u>()</u> | | | Any hold times less than 72hr | <u>()</u> | | |
| Time Sampled | <u>()</u> | | | Client Name | <u>()</u> | | |
| Sample ID | <u>()</u> | | | Address | <u>()</u> | | |
| Special Storage/Handling Ins. | <u>()</u> | | | Telephone # | <u>()</u> | | |

Section 3- Bottles / Analysis

| | Yes | No | N/A | Comment |
|---|------------|------------|------------|---------|
| Did all bottles arrive unbroken and intact? | <u>()</u> | | | |
| Were bottle custody seals present? | | <u>()</u> | | |
| Were bottle custody seals intact? | | <u>()</u> | | |
| Did all bottle labels agree with COC? | <u>()</u> | | | |
| Were correct containers used for the tests requested? | <u>()</u> | | | |
| Were correct preservations used for the tests requested? | <u>()</u> | | | |
| Was a sufficient amount of sample sent for tests indicated? | <u>()</u> | | | |
| Were bubbles present in VOA Vials? (Volatile Methods Only) | | | <u>()</u> | |
| Were Ascorbic Acid Bottles received with the VOAs? | | | <u>()</u> | |

Section 4- Comments / Discrepancies

Sample(s) Split/Preserve: Yes No Container: _____ Preservation: _____ Dt/Time/Init _____

Container: _____ Preservation: _____ Dt/Time/Init _____

Was Client Service Rep. notified of discrepancies: Yes No N/A CSR: _____ Notified By: _____

Explanations / Comments

Report Comment Entered:

Labeled by: JHD @ 12:21 Labels checked by: ///A @ 12:55

Sample Integrity Pg 2 of 2

BSK Bottles (Yes) ~~(No)~~

250ml (A) 500ml (B) 1Liter (C) Amber Glass (AG)

| Container(s) Received | | | | | |
|--|-------------------------------------|------|--|--|--|
| Bacti Na ₂ S ₂ O ₃ | | | | | |
| None (p) | White Cap | * IC | | | |
| None (p) | Blue Cap w/NH ₄ + Buffer | | | | |
| HNO ₃ (p) | Red Cap | IC | | | |
| II ₂ SO ₄ (p) | Yellow Cap | | | | |
| NaOH (p) | Green Cap | IC | | | |
| Other: | | | | | |
| Dissolved Oxygen 300ml (g) | | | | | |
| Centrifuge Tube HNO ₃ | | | | | |
| 250ml (AG) None | | I | | | |
| 250ml (AG) H ₂ SO ₄ COD | Yellow Label | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ 515,547 | Blue Label | | | | |
| 250ml (AG) Na ₂ S ₂ O ₃ + MCAA 531.1 | Orange Label | | | | |
| 250ml (AG) NH ₄ Cl 552 | Purple Label | | | | |
| 250ml (AG) EDA DBPs | Brown Label | | | | |
| 250ml (AG) Other: | | | | | |
| 500ml (AG) None | | | | | |
| 500ml (AG) H ₂ SO ₄ TPH-Diesel | Yellow Label | | | | |
| 1 Liter (AG) None | | | | | |
| 1 Liter (AG) H ₂ SO ₄ O&G | Yellow Label | | | | |
| 1 Liter (AG) Na ₂ S ₂ O ₃ 548 / 525 / 521 | Blue Label | | | | |
| 1 Liter (P) Na ₂ S ₂ O ₃ + H ₂ SO ₄ 549 | | | | | |
| 1 Liter (AG) NaOH+ZnAc Sulfide | | | | | |
| 1 Liter (AG) Ascorbic/EDTA/Pot Citrate 527 | Grey Label | | | | |
| 1 Liter (AG) CuSO ₄ /Trizma 529 | Turquoise Label | | | | |
| 1 Liter (AG) Na ₂ SO ₃ / HCL 525 UCMR | Neon Green Label | | | | |
| 1 Liter (AG) Ammonium Chloride 535 | Purple Label | | | | |
| 40ml VOA Vial Clear - HCL | | | | | |
| 40ml VOA Vial Amber - Na ₂ S ₂ O ₃ | | | | | |
| 40ml VOA Vial Clear ~ None | | | | | |
| 40ml VOA Vial Clear - Na ₂ S ₂ O ₃ 504, 505 | | | | | |
| 40ml VOA Vial Clear ~ II ₃ PO ₄ | | | | | |
| Other: | | | | | |
| Asbestos 1Liter Plastic/Foil | | | | | |
| Radon 200ml Clear (g) | | | | | |
| Low Level Hg/Metals Double Baggie | | | | | |
| Bioassay Jug | | | | | |
| 250 Clear Glass Jar | | | | | |
| 500 Clear Glass Jar | | | | | |
| 1 Liter Clear Glass Jar | | | | | |
| Plastic Bag | | | | | |
| Soil Tube Brass / Steel / Plastic | | | | | |
| Tedlar Bags | | | | | |

7/23/06
S