



**A3H2513**

10/02/2013

Invoice

A324190

Anne Littlejohn  
Central Valley RWQCB  
11020 Sun Center Drive, Suite 200  
Rancho Cordova, CA 95670

Dear Anne Littlejohn,

Thank you for selecting BSK Associates 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 08/30/2013 10:30.

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

BSK ASSOCIATES

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Stephane Maupas  
Project Manager

**Case Narrative**

**Work Order Information**

|   |                                      |
|---|--------------------------------------|
| <b>Client Name:</b> Central Valley RWQCB                          | <b>Submitted by:</b> Anne Littlejohn |
| <b>Client Code:</b> centr4730                                     | <b>Shipped by:</b> ONTRAC            |
| <b>Work Order:</b> A3H2513  | <b>COC Number:</b>                   |
| <b>Project:</b> Evaluation WQ in Ag Dominated Water Bodies        | <b>TAT:</b> 10                       |
| <b>Client Project:</b> Evaluation WQ in Ag Dominated Water Bodies | <b>PO #:</b> 11-123-555              |

**Sample Receipt Conditions**

|   |                      |
|---|----------------------|
| <b>Cooler:</b> Default Cooler                 | <b>Temp. °C:</b> 1.0 |
| Containers Intact                             |                      |
| COC/Labels Agree                              |                      |
| Preservation Confirmed                        |                      |
| Received On Wet Ice                           |                      |
| Packing Material - Bubble Wrap                |                      |
| Sample(s) were received in temperature range. |                      |
| Initial receipt at BSK-SAC                    |                      |

|   |                      |
|---|----------------------|
| <b>Cooler:</b> New Cooler                     | <b>Temp. °C:</b> 0.3 |
| Containers Intact                             |                      |
| COC/Labels Agree                              |                      |
| Preservation Confirmed                        |                      |
| Received On Wet Ice                           |                      |
| Packing Material - Bubble Wrap                |                      |
| Sample(s) were received in temperature range. |                      |
| Initial receipt at BSK-SAC                    |                      |

**Report Manager**

Calvin Yang  
 Anne Littlejohn

**Report Format**

Final.rpt  
 Final.rpt



**Certificate of Analysis**

Anne Littlejohn  
 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-01  
**Sample Date:** 08/29/2013 07:57  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-30

**General Chemistry**

| Analyte                | Method           | Result       | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual       |
|------------------------|------------------|--------------|-------|------|-------|------------|---------|----------|----------|------------|
| Ammonia as N           | SM<br>4500-NH3 G | <b>0.099</b> | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.2,<br>J |
| Chloride               | EPA 300.0        | <b>1.5</b>   | 0.45  | 1.0  | mg/L  | 1          | A310051 | 08/30/13 | 08/30/13 |            |
| Sulfate as SO4         | EPA 300.0        | <b>3.6</b>   | 0.38  | 2.0  | mg/L  | 1          | A310131 | 09/03/13 | 09/03/13 |            |
| Total Dissolved Solids | SM 2540C         | <b>100</b>   |       | 5.0  | mg/L  | 1          | A310266 | 09/05/13 | 09/09/13 |            |

**Metals**

| Analyte                 | Method           | Result      | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|-------------|-------|------|-------|------------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | <b>0.72</b> | 0.041 | 0.10 | ug/L  | 1          | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | <b>0.59</b> | 0.045 | 0.10 | ug/L  | 1          | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | <b>14</b>   | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | <b>67</b>   |       | 0.41 | mg/L  |            |         |          |          |      |
| Magnesium               | EPA 200.7        | <b>7.7</b>  | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | <b>4.9</b>  | 0.45  | 1.0  | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-02  
**Sample Date:** 08/29/2013 08:43  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-31

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 0.21   | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.3 |
| Chloride               | EPA 300.0        | 1.7    | 0.45  | 1.0  | mg/L  | 1          | A310131 | 09/03/13 | 09/03/13 |      |
| Sulfate as SO4         | EPA 300.0        | 3.4    | 0.38  | 2.0  | mg/L  | 1          | A310131 | 09/03/13 | 09/03/13 |      |
| Total Dissolved Solids | SM 2540C         | 120    |       | 5.0  | mg/L  | 1          | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 1.5    | 0.041 | 0.10 | ug/L  | 1          | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 0.92   | 0.045 | 0.10 | ug/L  | 1          | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 14     | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 69     |       | 0.41 | mg/L  |            |         |          |          |      |
| Magnesium               | EPA 200.7        | 8.4    | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 5.9    | 0.45  | 1.0  | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-03  
**Sample Date:** 08/29/2013 08:54  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Waste Water

**Sample Description:** AWL130829-32

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 14     | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.4 |
| Chloride               | EPA 300.0        | 63     | 0.89  | 2.0  | mg/L  | 2          | A310051 | 08/30/13 | 08/30/13 |      |
| Sulfate as SO4         | EPA 300.0        | 14     | 0.76  | 4.0  | mg/L  | 2          | A310051 | 08/30/13 | 08/30/13 |      |
| Total Dissolved Solids | SM 2540C         | 520    |       | 5.0  | mg/L  | 1          | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 3.0    | 0.041 | 0.10 | ug/L  | 1          | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 3.3    | 0.045 | 0.10 | ug/L  | 1          | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 40     | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 230    |       | 0.41 | mg/L  |            |         |          |          |      |
| Magnesium               | EPA 200.7        | 31     | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 66     | 0.45  | 1.0  | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
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**Received Time:** 10:30

**Lab Sample ID:** A3H2513-04  
**Sample Date:** 08/29/2013 09:04  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-33

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 0.91   | 0.029 | 0.10 | mg/L  | 1       | A310472 | 09/10/13 | 09/20/13 | B2.3 |
| Chloride               | EPA 300.0        | 4.5    | 0.45  | 1.0  | mg/L  | 1       | A310051 | 08/30/13 | 08/30/13 |      |
| Sulfate as SO4         | EPA 300.0        | 3.8    | 0.38  | 2.0  | mg/L  | 1       | A310051 | 08/30/13 | 08/30/13 |      |
| Total Dissolved Solids | SM 2540C         | 150    |       | 5.0  | mg/L  | 1       | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 1.4    | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 1.2    | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 16     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 80     |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | 9.7    | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 9.5    | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-05  
**Sample Date:** 08/29/2013 09:48  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-34

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 0.12   | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.3 |
| Chloride               | EPA 300.0        | 2.1    | 0.45  | 1.0  | mg/L  | 1          | A310131 | 09/03/13 | 09/03/13 |      |
| Sulfate as SO4         | EPA 300.0        | 3.4    | 0.38  | 2.0  | mg/L  | 1          | A310131 | 09/03/13 | 09/03/13 |      |
| Total Dissolved Solids | SM 2540C         | 130    |       | 5.0  | mg/L  | 1          | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 1.3    | 0.041 | 0.10 | ug/L  | 1          | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 1.0    | 0.045 | 0.10 | ug/L  | 1          | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 18     | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 83     |       | 0.41 | mg/L  |            |         |          |          |      |
| Magnesium               | EPA 200.7        | 9.6    | 0.046 | 0.10 | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 8.6    | 0.45  | 1.0  | mg/L  | 1          | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-06  
**Sample Date:** 08/29/2013 10:08  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-35

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 0.19   | 0.029 | 0.10 | mg/L  | 1       | A310472 | 09/10/13 | 09/20/13 | B2.3 |
| Chloride               | EPA 300.0        | 2.1    | 0.45  | 1.0  | mg/L  | 1       | A310131 | 09/03/13 | 09/03/13 |      |
| Sulfate as SO4         | EPA 300.0        | 3.9    | 0.38  | 2.0  | mg/L  | 1       | A310131 | 09/03/13 | 09/03/13 |      |
| Total Dissolved Solids | SM 2540C         | 140    |       | 5.0  | mg/L  | 1       | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 2.1    | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 1.7    | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 19     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 96     |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | 12     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 7.5    | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-07  
**Sample Date:** 08/29/2013 13:30  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-36

**General Chemistry**

| Analyte                | Method    | Result | MDL  | RL  | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|------------------------|-----------|--------|------|-----|-------|---------|---------|----------|----------|------|
| Chloride               | EPA 300.0 | 8.2    | 0.45 | 1.0 | mg/L  | 1       | A310051 | 08/30/13 | 08/30/13 |      |
| Sulfate as SO4         | EPA 300.0 | 4.5    | 0.38 | 2.0 | mg/L  | 1       | A310051 | 08/30/13 | 08/30/13 |      |
| Total Dissolved Solids | SM 2540C  | 210    |      | 5.0 | mg/L  | 1       | A310266 | 09/05/13 | 09/09/13 |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 3.4    | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/16/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 3.0    | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 24     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 130    |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | 16     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 20     | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-08  
**Sample Date:** 08/29/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-39

**General Chemistry**

| Analyte      | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|--------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Ammonia as N | SM<br>4500-NH3 G | 0.12   | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.3 |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-09  
**Sample Date:** 08/29/2013 07:57  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-40

**General Chemistry**

| Analyte      | Method           | Result | MDL   | RL   | Units | RL<br>Mult | Batch   | Prepared | Analyzed | Qual |
|--------------|------------------|--------|-------|------|-------|------------|---------|----------|----------|------|
| Ammonia as N | SM<br>4500-NH3 G | 0.13   | 0.029 | 0.10 | mg/L  | 1          | A310472 | 09/10/13 | 09/20/13 | B2.3 |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-10  
**Sample Date:** 08/29/2013 11:08  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Waste Water

**Sample Description:** AWL130829-42

**General Chemistry**

| Analyte                | Method    | Result     | MDL  | RL   | Units | RL Mult | Batch   | Prepared       | Analyzed       | Qual |
|------------------------|-----------|------------|------|------|-------|---------|---------|----------------|----------------|------|
| Chloride               | EPA 300.0 | <b>58</b>  | 0.89 | 2.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       | B2.4 |
| Nitrate as N           | EPA 300.0 | <b>18</b>  | 0.18 | 0.44 | mg/L  | 2       | A310040 | 08/30/13 14:19 | 08/30/13 14:19 |      |
| Sulfate as SO4         | EPA 300.0 | <b>37</b>  | 0.76 | 4.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       |      |
| Total Dissolved Solids | SM 2540C  | <b>500</b> |      | 5.0  | mg/L  | 1       | A310266 | 09/05/13       | 09/09/13       |      |

**Metals**

| Analyte                 | Method           | Result     | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|------------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | <b>28</b>  | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | <b>28</b>  | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | <b>35</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | <b>230</b> |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | <b>35</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | <b>65</b>  | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



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 Rancho Cordova, CA 95670

**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-11  
**Sample Date:** 08/29/2013 11:24  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-43

**General Chemistry**

| Analyte                | Method    | Result     | MDL  | RL   | Units | RL Mult | Batch   | Prepared       | Analyzed       | Qual |
|------------------------|-----------|------------|------|------|-------|---------|---------|----------------|----------------|------|
| Chloride               | EPA 300.0 | <b>58</b>  | 0.89 | 2.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       | B2.4 |
| Nitrate as N           | EPA 300.0 | <b>18</b>  | 0.18 | 0.44 | mg/L  | 2       | A310040 | 08/30/13 14:27 | 08/30/13 14:27 |      |
| Sulfate as SO4         | EPA 300.0 | <b>37</b>  | 0.76 | 4.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       |      |
| Total Dissolved Solids | SM 2540C  | <b>510</b> |      | 5.0  | mg/L  | 1       | A310266 | 09/05/13       | 09/09/13       |      |

**Metals**

| Analyte                 | Method           | Result     | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|------------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | <b>27</b>  | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | <b>28</b>  | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | <b>34</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | <b>230</b> |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | <b>34</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | <b>64</b>  | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



**Certificate of Analysis**

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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-12  
**Sample Date:** 08/29/2013 11:29  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-44

**General Chemistry**

| Analyte                | Method    | Result     | MDL  | RL   | Units | RL Mult | Batch   | Prepared       | Analyzed       | Qual |
|------------------------|-----------|------------|------|------|-------|---------|---------|----------------|----------------|------|
| Chloride               | EPA 300.0 | <b>60</b>  | 0.89 | 2.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       | B2.4 |
| Nitrate as N           | EPA 300.0 | <b>18</b>  | 0.18 | 0.44 | mg/L  | 2       | A310040 | 08/30/13 14:34 | 08/30/13 14:34 |      |
| Sulfate as SO4         | EPA 300.0 | <b>38</b>  | 0.76 | 4.0  | mg/L  | 2       | A310040 | 08/30/13       | 08/30/13       |      |
| Total Dissolved Solids | SM 2540C  | <b>510</b> |      | 5.0  | mg/L  | 1       | A310266 | 09/05/13       | 09/09/13       |      |

**Metals**

| Analyte                 | Method           | Result     | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|------------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | <b>28</b>  | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | <b>28</b>  | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | <b>34</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | <b>220</b> |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | <b>34</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | <b>63</b>  | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-13  
**Sample Date:** 08/29/2013 12:45  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-45

**General Chemistry**

| Analyte                | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared       | Analyzed       | Qual |
|------------------------|------------------|--------|-------|------|-------|---------|---------|----------------|----------------|------|
| Ammonia as N           | SM<br>4500-NH3 G | 0.20   | 0.029 | 0.10 | mg/L  | 1       | A310472 | 09/10/13       | 09/20/13       | B2.3 |
| Chloride               | EPA 300.0        | 8.0    | 0.45  | 1.0  | mg/L  | 1       | A310040 | 08/30/13       | 08/30/13       | B2.3 |
| Nitrate as N           | EPA 300.0        | ND     | 0.090 | 0.22 | mg/L  | 1       | A310040 | 08/30/13 14:41 | 08/30/13 14:41 |      |
| Sulfate as SO4         | EPA 300.0        | 4.5    | 0.38  | 2.0  | mg/L  | 1       | A310040 | 08/30/13       | 08/30/13       |      |
| Total Dissolved Solids | SM 2540C         | 210    |       | 5.0  | mg/L  | 1       | A310266 | 09/05/13       | 09/09/13       |      |

**Metals**

| Analyte                 | Method           | Result | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|--------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | 3.5    | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | 3.1    | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | 24     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | 120    |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | 16     | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | 19     | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



**Certificate of Analysis**

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**Report Issue Date:** 10/02/2013 16:51  
**Received Date:** 08/30/2013  
**Received Time:** 10:30

**Lab Sample ID:** A3H2513-14  
**Sample Date:** 08/29/2013 13:55  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Anne Littlejohn  
**Matrix:** Surface Water

**Sample Description:** AWL130829-47

**General Chemistry**

| Analyte                | Method    | Result      | MDL   | RL   | Units | RL Mult | Batch   | Prepared       | Analyzed       | Qual |
|------------------------|-----------|-------------|-------|------|-------|---------|---------|----------------|----------------|------|
| Chloride               | EPA 300.0 | <b>8.3</b>  | 0.45  | 1.0  | mg/L  | 1       | A310040 | 08/30/13       | 08/30/13       | B2.3 |
| Nitrate as N           | EPA 300.0 | <b>0.18</b> | 0.090 | 0.22 | mg/L  | 1       | A310040 | 08/30/13 14:48 | 08/30/13 14:48 | J    |
| Sulfate as SO4         | EPA 300.0 | <b>4.6</b>  | 0.38  | 2.0  | mg/L  | 1       | A310040 | 08/30/13       | 08/30/13       |      |
| Total Dissolved Solids | SM 2540C  | <b>200</b>  |       | 5.0  | mg/L  | 1       | A310266 | 09/05/13       | 09/09/13       |      |

**Metals**

| Analyte                 | Method           | Result     | MDL   | RL   | Units | RL Mult | Batch   | Prepared | Analyzed | Qual |
|-------------------------|------------------|------------|-------|------|-------|---------|---------|----------|----------|------|
| Arsenic                 | EPA 200.8<br>DRC | <b>3.5</b> | 0.041 | 0.10 | ug/L  | 1       | A310187 | 09/04/13 | 09/11/13 |      |
| Arsenic - Dissolved (1) | EPA 200.8<br>DRC | <b>3.4</b> | 0.045 | 0.10 | ug/L  | 1       | A310476 | 09/10/13 | 09/11/13 |      |
| Calcium                 | EPA 200.7        | <b>26</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Hardness as CaCO3       | SM 2340B         | <b>140</b> |       | 0.41 | mg/L  |         |         |          |          |      |
| Magnesium               | EPA 200.7        | <b>18</b>  | 0.046 | 0.10 | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |
| Sodium                  | EPA 200.7        | <b>21</b>  | 0.45  | 1.0  | mg/L  | 1       | A310209 | 09/05/13 | 09/11/13 |      |



### General Chemistry Quality Control Report

| Analyte | Result | MDL | RL | Units | Spike | Source | %REC | RPD    | Date | Analyzed | Qual |
|---------|--------|-----|----|-------|-------|--------|------|--------|------|----------|------|
|         |        |     |    |       | Level | Result | %REC | Limits | RPD  |          |      |

Batch: A310040

Analyst: AJT

Prepared: 08/30/2013

**Blank (A310040-BLK1) EPA 300.0 - Quality Control**

|                |      |       |      |      |  |  |  |  |  |          |            |
|----------------|------|-------|------|------|--|--|--|--|--|----------|------------|
| Chloride       | 0.63 | 0.45  | 1.0  | mg/L |  |  |  |  |  | 08/30/13 | B2.0,<br>J |
| Nitrate as N   | ND   | 0.090 | 0.22 | mg/L |  |  |  |  |  | 08/30/13 |            |
| Sulfate as SO4 | ND   | 0.38  | 2.0  | mg/L |  |  |  |  |  | 08/30/13 |            |

**Blank Spike (A310040-BS1) EPA 300.0 - Quality Control**

|                |    |       |      |      |    |     |        |  |  |          |  |
|----------------|----|-------|------|------|----|-----|--------|--|--|----------|--|
| Chloride       | 51 | 0.45  | 1.0  | mg/L | 50 | 101 | 90-110 |  |  | 08/30/13 |  |
| Nitrate as N   | 12 | 0.090 | 0.22 | mg/L | 11 | 102 | 90-110 |  |  | 08/30/13 |  |
| Sulfate as SO4 | 51 | 0.38  | 2.0  | mg/L | 50 | 101 | 90-110 |  |  | 08/30/13 |  |

**Blank Spike Dup (A310040-BSD1) EPA 300.0 - Quality Control**

|                |    |       |      |      |    |     |        |   |    |          |  |
|----------------|----|-------|------|------|----|-----|--------|---|----|----------|--|
| Chloride       | 52 | 0.45  | 1.0  | mg/L | 50 | 103 | 90-110 | 2 | 20 | 08/30/13 |  |
| Nitrate as N   | 12 | 0.090 | 0.22 | mg/L | 11 | 104 | 90-110 | 2 | 20 | 08/30/13 |  |
| Sulfate as SO4 | 51 | 0.38  | 2.0  | mg/L | 50 | 103 | 90-110 | 2 | 20 | 08/30/13 |  |

**Matrix Spike (A310040-MS1) EPA 300.0 - Quality Control**

Source: A3H2487-04

|                |     |      |      |      |     |      |     |        |  |          |  |
|----------------|-----|------|------|------|-----|------|-----|--------|--|----------|--|
| Chloride       | 120 | 0.89 | 2.0  | mg/L | 100 | 25   | 100 | 80-120 |  | 08/30/13 |  |
| Nitrate as N   | 23  | 0.18 | 0.44 | mg/L | 23  | 0.18 | 100 | 80-120 |  | 08/30/13 |  |
| Sulfate as SO4 | 110 | 0.76 | 4.0  | mg/L | 100 | 7.1  | 100 | 80-120 |  | 08/30/13 |  |

**Matrix Spike (A310040-MS2) EPA 300.0 - Quality Control**

Source: A3H2487-06

|                |     |      |      |      |     |      |     |        |  |          |  |
|----------------|-----|------|------|------|-----|------|-----|--------|--|----------|--|
| Chloride       | 140 | 0.89 | 2.0  | mg/L | 100 | 43   | 100 | 80-120 |  | 08/30/13 |  |
| Nitrate as N   | 23  | 0.18 | 0.44 | mg/L | 23  | 0.34 | 100 | 80-120 |  | 08/30/13 |  |
| Sulfate as SO4 | 110 | 0.76 | 4.0  | mg/L | 100 | 9.8  | 101 | 80-120 |  | 08/30/13 |  |

**Matrix Spike Dup (A310040-MSD1) EPA 300.0 - Quality Control**

Source: A3H2487-04

|                |     |      |      |      |     |      |     |        |   |    |          |
|----------------|-----|------|------|------|-----|------|-----|--------|---|----|----------|
| Chloride       | 120 | 0.89 | 2.0  | mg/L | 100 | 25   | 99  | 80-120 | 1 | 20 | 08/30/13 |
| Nitrate as N   | 23  | 0.18 | 0.44 | mg/L | 23  | 0.18 | 99  | 80-120 | 1 | 20 | 08/30/13 |
| Sulfate as SO4 | 110 | 0.76 | 4.0  | mg/L | 100 | 7.1  | 100 | 80-120 | 0 | 20 | 08/30/13 |

**Matrix Spike Dup (A310040-MSD2) EPA 300.0 - Quality Control**

Source: A3H2487-06

|                |     |      |      |      |     |      |     |        |   |    |          |
|----------------|-----|------|------|------|-----|------|-----|--------|---|----|----------|
| Chloride       | 140 | 0.89 | 2.0  | mg/L | 100 | 43   | 100 | 80-120 | 0 | 20 | 08/30/13 |
| Nitrate as N   | 23  | 0.18 | 0.44 | mg/L | 23  | 0.34 | 100 | 80-120 | 1 | 20 | 08/30/13 |
| Sulfate as SO4 | 110 | 0.76 | 4.0  | mg/L | 100 | 9.8  | 102 | 80-120 | 0 | 20 | 08/30/13 |

Batch: A310051

Analyst: AJT

Prepared: 08/30/2013

**Blank (A310051-BLK1) EPA 300.0 - Quality Control**

|                |    |      |     |      |  |  |  |  |  |          |  |
|----------------|----|------|-----|------|--|--|--|--|--|----------|--|
| Chloride       | ND | 0.45 | 1.0 | mg/L |  |  |  |  |  | 08/30/13 |  |
| Sulfate as SO4 | ND | 0.38 | 2.0 | mg/L |  |  |  |  |  | 08/30/13 |  |

**Blank Spike (A310051-BS1) EPA 300.0 - Quality Control**

|                |    |      |     |      |    |     |        |  |  |          |  |
|----------------|----|------|-----|------|----|-----|--------|--|--|----------|--|
| Chloride       | 50 | 0.45 | 1.0 | mg/L | 50 | 100 | 90-110 |  |  | 08/30/13 |  |
| Sulfate as SO4 | 50 | 0.38 | 2.0 | mg/L | 50 | 100 | 90-110 |  |  | 08/30/13 |  |

**Blank Spike Dup (A310051-BSD1) EPA 300.0 - Quality Control**

|                |    |      |     |      |    |     |        |   |    |          |  |
|----------------|----|------|-----|------|----|-----|--------|---|----|----------|--|
| Chloride       | 50 | 0.45 | 1.0 | mg/L | 50 | 101 | 90-110 | 1 | 20 | 08/30/13 |  |
| Sulfate as SO4 | 51 | 0.38 | 2.0 | mg/L | 50 | 101 | 90-110 | 1 | 20 | 08/30/13 |  |

A3H2513 FINAL 10022013 1651

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### General Chemistry Quality Control Report

| Analyte | Result | MDL | RL | Units | Spike | Source | %REC |        | RPD |       | Date     |
|---------|--------|-----|----|-------|-------|--------|------|--------|-----|-------|----------|
|         |        |     |    |       | Level | Result | %REC | Limits | RPD | Limit | Analyzed |

**Batch: A310051**

Analyst: AJT

Prepared: 08/30/2013

**Matrix Spike (A310051-MS1) EPA 300.0 - Quality Control Source: A3H2487-03**

|                |     |      |     |      |     |    |     |        |  |  |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|--|--|----------|
| Chloride       | 180 | 0.89 | 2.0 | mg/L | 100 | 80 | 100 | 80-120 |  |  | 08/30/13 |
| Sulfate as SO4 | 190 | 0.76 | 4.0 | mg/L | 100 | 91 | 101 | 80-120 |  |  | 08/30/13 |

**Matrix Spike (A310051-MS2) EPA 300.0 - Quality Control Source: A3H2498-06**

|                |     |      |     |      |     |    |     |        |  |  |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|--|--|----------|
| Chloride       | 120 | 0.89 | 2.0 | mg/L | 100 | 22 | 100 | 80-120 |  |  | 08/30/13 |
| Sulfate as SO4 | 150 | 0.76 | 4.0 | mg/L | 100 | 54 | 100 | 80-120 |  |  | 08/30/13 |

**Matrix Spike Dup (A310051-MSD1) EPA 300.0 - Quality Control Source: A3H2487-03**

|                |     |      |     |      |     |    |     |        |   |    |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|---|----|----------|
| Chloride       | 180 | 0.89 | 2.0 | mg/L | 100 | 80 | 102 | 80-120 | 1 | 20 | 08/30/13 |
| Sulfate as SO4 | 190 | 0.76 | 4.0 | mg/L | 100 | 91 | 102 | 80-120 | 0 | 20 | 08/30/13 |

**Matrix Spike Dup (A310051-MSD2) EPA 300.0 - Quality Control Source: A3H2498-06**

|                |     |      |     |      |     |    |     |        |   |    |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|---|----|----------|
| Chloride       | 120 | 0.89 | 2.0 | mg/L | 100 | 22 | 100 | 80-120 | 0 | 20 | 08/30/13 |
| Sulfate as SO4 | 160 | 0.76 | 4.0 | mg/L | 100 | 54 | 101 | 80-120 | 1 | 20 | 08/30/13 |

**Batch: A310131**

Analyst: AJT

Prepared: 09/03/2013

**Blank (A310131-BLK1) EPA 300.0 - Quality Control**

|                |    |      |     |      |  |  |  |  |  |  |          |
|----------------|----|------|-----|------|--|--|--|--|--|--|----------|
| Chloride       | ND | 0.45 | 1.0 | mg/L |  |  |  |  |  |  | 09/03/13 |
| Sulfate as SO4 | ND | 0.38 | 2.0 | mg/L |  |  |  |  |  |  | 09/03/13 |

**Blank Spike (A310131-BS1) EPA 300.0 - Quality Control**

|                |    |      |     |      |    |  |     |        |  |  |          |
|----------------|----|------|-----|------|----|--|-----|--------|--|--|----------|
| Chloride       | 50 | 0.45 | 1.0 | mg/L | 50 |  | 101 | 90-110 |  |  | 09/03/13 |
| Sulfate as SO4 | 50 | 0.38 | 2.0 | mg/L | 50 |  | 101 | 90-110 |  |  | 09/03/13 |

**Blank Spike Dup (A310131-BSD1) EPA 300.0 - Quality Control**

|                |    |      |     |      |    |  |    |        |   |    |          |
|----------------|----|------|-----|------|----|--|----|--------|---|----|----------|
| Chloride       | 50 | 0.45 | 1.0 | mg/L | 50 |  | 99 | 90-110 | 1 | 20 | 09/03/13 |
| Sulfate as SO4 | 50 | 0.38 | 2.0 | mg/L | 50 |  | 99 | 90-110 | 2 | 20 | 09/03/13 |

**Matrix Spike (A310131-MS1) EPA 300.0 - Quality Control Source: A3I0005-01**

|                |    |      |     |      |     |      |    |        |  |  |          |
|----------------|----|------|-----|------|-----|------|----|--------|--|--|----------|
| Chloride       | 99 | 0.89 | 2.0 | mg/L | 100 | 0.91 | 98 | 80-120 |  |  | 09/03/13 |
| Sulfate as SO4 | 99 | 0.76 | 4.0 | mg/L | 100 | 0.74 | 98 | 80-120 |  |  | 09/03/13 |

**Matrix Spike (A310131-MS2) EPA 300.0 - Quality Control Source: A3I0024-01**

|                |     |      |     |      |     |    |     |        |  |  |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|--|--|----------|
| Sulfate as SO4 | 120 | 0.76 | 4.0 | mg/L | 100 | 21 | 102 | 80-120 |  |  | 09/03/13 |
|----------------|-----|------|-----|------|-----|----|-----|--------|--|--|----------|

**Matrix Spike Dup (A310131-MSD1) EPA 300.0 - Quality Control Source: A3I0005-01**

|                |     |      |     |      |     |      |    |        |   |    |          |
|----------------|-----|------|-----|------|-----|------|----|--------|---|----|----------|
| Chloride       | 100 | 0.89 | 2.0 | mg/L | 100 | 0.91 | 99 | 80-120 | 1 | 20 | 09/03/13 |
| Sulfate as SO4 | 100 | 0.76 | 4.0 | mg/L | 100 | 0.74 | 99 | 80-120 | 1 | 20 | 09/03/13 |

**Matrix Spike Dup (A310131-MSD2) EPA 300.0 - Quality Control Source: A3I0024-01**

|                |     |      |     |      |     |    |     |        |   |    |          |
|----------------|-----|------|-----|------|-----|----|-----|--------|---|----|----------|
| Sulfate as SO4 | 120 | 0.76 | 4.0 | mg/L | 100 | 21 | 101 | 80-120 | 1 | 20 | 09/03/13 |
|----------------|-----|------|-----|------|-----|----|-----|--------|---|----|----------|

**Batch: A310266**

Analyst: DEH

Prepared: 09/05/2013

**Blank (A310266-BLK1) SM 2540C - Quality Control**

|                        |    |  |     |      |  |  |  |  |  |  |          |
|------------------------|----|--|-----|------|--|--|--|--|--|--|----------|
| Total Dissolved Solids | ND |  | 5.0 | mg/L |  |  |  |  |  |  | 09/09/13 |
|------------------------|----|--|-----|------|--|--|--|--|--|--|----------|

A3H2513 FINAL 10022013 1651



### General Chemistry Quality Control Report

| Analyte  | Result | MDL   | RL   | Units | Spike Level               | Source Result | %REC | Limits               | RPD | Limit | Date Analyzed | Qual       |
|--|--------|-------|------|-------|---------------------------|---------------|------|----------------------|-----|-------|---------------|------------|
| <b>Batch: A310266</b>  |        |       |      |       | Analyst: DEH              |               |      | Prepared: 09/05/2013 |     |       |               |            |
| <b>Blank Spike (A310266-BS1) SM 2540C - Quality Control</b>            |        |       |      |       |                           |               |      |                      |     |       |               |            |
| Total Dissolved Solids   | 1000   |       | 5.0  | mg/L  | 1000                      |               | 100  | 70-130               |     |       | 09/09/13      |            |
| <b>Duplicate (A310266-DUP1) SM 2540C - Quality Control</b>             |        |       |      |       | <b>Source: A3H2513-01</b> |               |      |                      |     |       |               |            |
| Total Dissolved Solids   | 100    |       | 5.0  | mg/L  |                           | 100           |      |                      | 3   | 20    | 09/09/13      |            |
| <b>Batch: A310472</b>  |        |       |      |       | Analyst: LJL              |               |      | Prepared: 09/10/2013 |     |       |               |            |
| <b>Blank (A310472-BLK1) SM 4500-NH3 G - Quality Control</b>            |        |       |      |       |                           |               |      |                      |     |       |               |            |
| Ammonia as N   | 0.074  | 0.029 | 0.10 | mg/L  |                           |               |      |                      |     |       | 09/20/13      | B2.0,<br>J |
| <b>Blank Spike (A310472-BS1) SM 4500-NH3 G - Quality Control</b>       |        |       |      |       |                           |               |      |                      |     |       |               |            |
| Ammonia as N   | 10     | 0.029 | 0.10 | mg/L  | 10                        |               | 101  | 80-120               |     |       | 09/20/13      |            |
| <b>Blank Spike Dup (A310472-BSD1) SM 4500-NH3 G - Quality Control</b>  |        |       |      |       | <b>Source: A3H2513-13</b> |               |      |                      |     |       |               |            |
| Ammonia as N   | 10     | 0.029 | 0.10 | mg/L  | 10                        |               | 101  | 80-120               | 0   | 20    | 09/20/13      |            |
| <b>Matrix Spike (A310472-MS1) SM 4500-NH3 G - Quality Control</b>      |        |       |      |       | <b>Source: A3H2513-13</b> |               |      |                      |     |       |               |            |
| Ammonia as N   | 10     | 0.029 | 0.10 | mg/L  | 10                        | 0.20          | 98   | 80-120               |     |       | 09/20/13      |            |
| <b>Matrix Spike (A310472-MS2) SM 4500-NH3 G - Quality Control</b>      |        |       |      |       | <b>Source: A3I0062-02</b> |               |      |                      |     |       |               |            |
| Ammonia as N   | 9.5    | 0.029 | 0.10 | mg/L  | 10                        | 0.16          | 94   | 80-120               |     |       | 09/20/13      |            |
| <b>Matrix Spike Dup (A310472-MSD1) SM 4500-NH3 G - Quality Control</b> |        |       |      |       | <b>Source: A3H2513-13</b> |               |      |                      |     |       |               |            |
| Ammonia as N   | 10     | 0.029 | 0.10 | mg/L  | 10                        | 0.20          | 99   | 80-120               | 1   | 20    | 09/20/13      |            |
| <b>Matrix Spike Dup (A310472-MSD2) SM 4500-NH3 G - Quality Control</b> |        |       |      |       | <b>Source: A3I0062-02</b> |               |      |                      |     |       |               |            |
| Ammonia as N   | 9.9    | 0.029 | 0.10 | mg/L  | 10                        | 0.16          | 97   | 80-120               | 4   | 20    | 09/20/13      |            |



### Metals Quality Control Report

| Analyte | Result | MDL | RL | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Date Analyzed | Qual |
|---------|--------|-----|----|-------|-------------|---------------|------|--------|-----|-------|---------------|------|
|---------|--------|-----|----|-------|-------------|---------------|------|--------|-----|-------|---------------|------|

**Batch: A310187**

Analyst: PSK

Prepared: 09/04/2013

**Blank (A310187-BLK2) EPA 200.8 DRC - Quality Control**

|         |    |       |      |      |  |  |  |  |  |  |          |  |
|---------|----|-------|------|------|--|--|--|--|--|--|----------|--|
| Arsenic | ND | 0.041 | 0.10 | ug/L |  |  |  |  |  |  | 09/11/13 |  |
|---------|----|-------|------|------|--|--|--|--|--|--|----------|--|

**Blank Spike (A310187-BS2) EPA 200.8 DRC - Quality Control**

|         |    |       |      |      |    |  |    |        |  |  |          |  |
|---------|----|-------|------|------|----|--|----|--------|--|--|----------|--|
| Arsenic | 47 | 0.041 | 0.10 | ug/L | 50 |  | 93 | 85-115 |  |  | 09/11/13 |  |
|---------|----|-------|------|------|----|--|----|--------|--|--|----------|--|

**Blank Spike Dup (A310187-BSD2) EPA 200.8 DRC - Quality Control**

|         |    |       |      |      |    |  |    |        |   |    |          |  |
|---------|----|-------|------|------|----|--|----|--------|---|----|----------|--|
| Arsenic | 48 | 0.041 | 0.10 | ug/L | 50 |  | 97 | 85-115 | 4 | 20 | 09/11/13 |  |
|---------|----|-------|------|------|----|--|----|--------|---|----|----------|--|

**Matrix Spike (A310187-MS2) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-11**

|         |    |       |      |      |    |    |     |        |  |  |          |  |
|---------|----|-------|------|------|----|----|-----|--------|--|--|----------|--|
| Arsenic | 79 | 0.041 | 0.10 | ug/L | 50 | 27 | 102 | 70-130 |  |  | 09/11/13 |  |
|---------|----|-------|------|------|----|----|-----|--------|--|--|----------|--|

**Matrix Spike (A310187-MS3) EPA 200.8 DRC - Quality Control**

**Source: A3H2331-01**

|         |    |       |      |      |    |     |    |        |  |  |          |  |
|---------|----|-------|------|------|----|-----|----|--------|--|--|----------|--|
| Arsenic | 53 | 0.041 | 0.10 | ug/L | 50 | 3.3 | 99 | 70-130 |  |  | 09/11/13 |  |
|---------|----|-------|------|------|----|-----|----|--------|--|--|----------|--|

**Matrix Spike Dup (A310187-MSD2) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-11**

|         |    |       |      |      |    |    |     |        |   |    |          |  |
|---------|----|-------|------|------|----|----|-----|--------|---|----|----------|--|
| Arsenic | 79 | 0.041 | 0.10 | ug/L | 50 | 27 | 103 | 70-130 | 0 | 20 | 09/11/13 |  |
|---------|----|-------|------|------|----|----|-----|--------|---|----|----------|--|

**Matrix Spike Dup (A310187-MSD3) EPA 200.8 DRC - Quality Control**

**Source: A3H2331-01**

|         |    |       |      |      |    |     |    |        |   |    |          |  |
|---------|----|-------|------|------|----|-----|----|--------|---|----|----------|--|
| Arsenic | 50 | 0.041 | 0.10 | ug/L | 50 | 3.3 | 93 | 70-130 | 6 | 20 | 09/11/13 |  |
|---------|----|-------|------|------|----|-----|----|--------|---|----|----------|--|

**Batch: A310209**

Analyst: NRE

Prepared: 09/05/2013

**Blank (A310209-BLK2) EPA 200.7 - Quality Control**

|           |    |       |      |      |  |  |  |  |  |  |          |  |
|-----------|----|-------|------|------|--|--|--|--|--|--|----------|--|
| Calcium   | ND | 0.046 | 0.10 | mg/L |  |  |  |  |  |  | 09/11/13 |  |
| Magnesium | ND | 0.046 | 0.10 | mg/L |  |  |  |  |  |  | 09/11/13 |  |
| Sodium    | ND | 0.45  | 1.0  | mg/L |  |  |  |  |  |  | 09/11/13 |  |

**Blank Spike (A310209-BS2) EPA 200.7 - Quality Control**

|           |     |       |      |      |    |  |     |        |  |  |          |  |
|-----------|-----|-------|------|------|----|--|-----|--------|--|--|----------|--|
| Calcium   | 10  | 0.046 | 0.10 | mg/L | 10 |  | 101 | 85-115 |  |  | 09/11/13 |  |
| Magnesium | 9.9 | 0.046 | 0.10 | mg/L | 10 |  | 99  | 85-115 |  |  | 09/11/13 |  |
| Sodium    | 10  | 0.45  | 1.0  | mg/L | 10 |  | 101 | 85-115 |  |  | 09/11/13 |  |

**Blank Spike Dup (A310209-BSD2) EPA 200.7 - Quality Control**

|           |    |       |      |      |    |  |     |        |   |    |          |  |
|-----------|----|-------|------|------|----|--|-----|--------|---|----|----------|--|
| Calcium   | 10 | 0.046 | 0.10 | mg/L | 10 |  | 101 | 85-115 | 0 | 20 | 09/11/13 |  |
| Magnesium | 10 | 0.046 | 0.10 | mg/L | 10 |  | 100 | 85-115 | 1 | 20 | 09/11/13 |  |
| Sodium    | 10 | 0.45  | 1.0  | mg/L | 10 |  | 101 | 85-115 | 0 | 20 | 09/11/13 |  |

**Matrix Spike (A310209-MS3) EPA 200.7 - Quality Control**

**Source: A3H2513-01**

|           |    |       |      |      |    |     |     |        |  |  |          |  |
|-----------|----|-------|------|------|----|-----|-----|--------|--|--|----------|--|
| Calcium   | 24 | 0.046 | 0.10 | mg/L | 10 | 14  | 99  | 70-130 |  |  | 09/11/13 |  |
| Magnesium | 18 | 0.046 | 0.10 | mg/L | 10 | 7.7 | 100 | 70-130 |  |  | 09/11/13 |  |
| Sodium    | 15 | 0.45  | 1.0  | mg/L | 10 | 4.9 | 100 | 70-130 |  |  | 09/11/13 |  |

**Matrix Spike (A310209-MS4) EPA 200.7 - Quality Control**

**Source: A3H2513-13**

|           |    |       |      |      |    |    |     |        |  |  |          |  |
|-----------|----|-------|------|------|----|----|-----|--------|--|--|----------|--|
| Calcium   | 34 | 0.046 | 0.10 | mg/L | 10 | 24 | 105 | 70-130 |  |  | 09/11/13 |  |
| Magnesium | 26 | 0.046 | 0.10 | mg/L | 10 | 16 | 102 | 70-130 |  |  | 09/11/13 |  |
| Sodium    | 29 | 0.45  | 1.0  | mg/L | 10 | 19 | 104 | 70-130 |  |  | 09/11/13 |  |

**Matrix Spike Dup (A310209-MSD3) EPA 200.7 - Quality Control**

**Source: A3H2513-01**

A3H2513 FINAL 10022013 1651

1414 Stanislaus Street

Fresno, CA 93706

(559) 497-2888

FAX (559) 485-6935

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Environmental Engineering | Geotechnical Engineering | Materials Testing



### Metals Quality Control Report

| Analyte | Result | MDL | RL | Units | Spike Level | Source Result | %REC | Limits | RPD | Limit | Date Analyzed | Qual |
|---------|--------|-----|----|-------|-------------|---------------|------|--------|-----|-------|---------------|------|
|---------|--------|-----|----|-------|-------------|---------------|------|--------|-----|-------|---------------|------|

**Batch: A310209**

Analyst: NRE

Prepared: 09/05/2013

**Matrix Spike Dup (A310209-MSD3) EPA 200.7 - Quality Control**

**Source: A3H2513-01**

|           |    |       |      |      |    |     |    |        |   |    |          |  |
|-----------|----|-------|------|------|----|-----|----|--------|---|----|----------|--|
| Calcium   | 24 | 0.046 | 0.10 | mg/L | 10 | 14  | 99 | 70-130 | 0 | 20 | 09/11/13 |  |
| Magnesium | 18 | 0.046 | 0.10 | mg/L | 10 | 7.7 | 99 | 70-130 | 1 | 20 | 09/11/13 |  |
| Sodium    | 15 | 0.45  | 1.0  | mg/L | 10 | 4.9 | 99 | 70-130 | 1 | 20 | 09/11/13 |  |

**Matrix Spike Dup (A310209-MSD4) EPA 200.7 - Quality Control**

**Source: A3H2513-13**

|           |    |       |      |      |    |    |     |        |   |    |          |  |
|-----------|----|-------|------|------|----|----|-----|--------|---|----|----------|--|
| Calcium   | 35 | 0.046 | 0.10 | mg/L | 10 | 24 | 112 | 70-130 | 2 | 20 | 09/11/13 |  |
| Magnesium | 27 | 0.046 | 0.10 | mg/L | 10 | 16 | 107 | 70-130 | 2 | 20 | 09/11/13 |  |
| Sodium    | 29 | 0.45  | 1.0  | mg/L | 10 | 19 | 107 | 70-130 | 1 | 20 | 09/11/13 |  |

**Batch: A310476**

Analyst: PSK

Prepared: 09/10/2013

**Blank (A310476-BLK1) EPA 200.8 DRC - Quality Control**

|                         |    |       |      |      |  |  |  |  |  |  |          |  |
|-------------------------|----|-------|------|------|--|--|--|--|--|--|----------|--|
| Arsenic - Dissolved (1) | ND | 0.045 | 0.10 | ug/L |  |  |  |  |  |  | 09/11/13 |  |
|-------------------------|----|-------|------|------|--|--|--|--|--|--|----------|--|

**Blank Spike (A310476-BS1) EPA 200.8 DRC - Quality Control**

|                         |    |       |      |      |    |  |    |        |  |  |          |  |
|-------------------------|----|-------|------|------|----|--|----|--------|--|--|----------|--|
| Arsenic - Dissolved (1) | 43 | 0.045 | 0.10 | ug/L | 50 |  | 85 | 85-115 |  |  | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|--|----|--------|--|--|----------|--|

**Blank Spike Dup (A310476-BSD1) EPA 200.8 DRC - Quality Control**

|                         |    |       |      |      |    |  |    |        |   |    |          |  |
|-------------------------|----|-------|------|------|----|--|----|--------|---|----|----------|--|
| Arsenic - Dissolved (1) | 43 | 0.045 | 0.10 | ug/L | 50 |  | 85 | 85-115 | 0 | 20 | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|--|----|--------|---|----|----------|--|

**Matrix Spike (A310476-MS1) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-01**

|                         |    |       |      |      |    |      |    |        |  |  |          |  |
|-------------------------|----|-------|------|------|----|------|----|--------|--|--|----------|--|
| Arsenic - Dissolved (1) | 44 | 0.045 | 0.10 | ug/L | 50 | 0.59 | 88 | 70-130 |  |  | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|------|----|--------|--|--|----------|--|

**Matrix Spike (A310476-MS2) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-13**

|                         |    |       |      |      |    |     |    |        |  |  |          |  |
|-------------------------|----|-------|------|------|----|-----|----|--------|--|--|----------|--|
| Arsenic - Dissolved (1) | 50 | 0.045 | 0.10 | ug/L | 50 | 3.1 | 94 | 70-130 |  |  | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|-----|----|--------|--|--|----------|--|

**Matrix Spike Dup (A310476-MSD1) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-01**

|                         |    |       |      |      |    |      |    |        |   |    |          |  |
|-------------------------|----|-------|------|------|----|------|----|--------|---|----|----------|--|
| Arsenic - Dissolved (1) | 46 | 0.045 | 0.10 | ug/L | 50 | 0.59 | 90 | 70-130 | 3 | 20 | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|------|----|--------|---|----|----------|--|

**Matrix Spike Dup (A310476-MSD2) EPA 200.8 DRC - Quality Control**

**Source: A3H2513-13**

|                         |    |       |      |      |    |     |    |        |   |    |          |  |
|-------------------------|----|-------|------|------|----|-----|----|--------|---|----|----------|--|
| Arsenic - Dissolved (1) | 50 | 0.045 | 0.10 | ug/L | 50 | 3.1 | 94 | 70-130 | 0 | 20 | 09/11/13 |  |
|-------------------------|----|-------|------|------|----|-----|----|--------|---|----|----------|--|



## Certificate of Analysis

10/02/2013

**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 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.
- \* - 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.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing for each certification.

|   |         |                         |              |
|---|---------|-------------------------|--------------|
| State of California - ELAP                  | 1180    | State of Nevada         | CA000792009A |
| State of California - ELAP (Rancho Cordova) | 2435    | State of Hawaii         | 04227CA      |
| State of California - NELAP                 | 04227CA | State of Oregon         | 4017         |
| State of Washington                         | C997    | State of Oregon - NWTPH | 4021         |

**Definitions and Flags for Data Qualifiers**

|        |                                |          |                                |          |                        |
|--------|--------------------------------|----------|--------------------------------|----------|------------------------|
| mg/L:  | Milligrams/Liter (ppm)         | MDL:     | Method Detection Limit         | MDA95:   | Min. Detected Activity |
| mg/Kg: | Milligrams/Kilogram (ppm)      | RL:      | Reporting Limit: DL x Dilution | MPN:     | Most Probable Number   |
| µg/L:  | Micrograms/Liter (ppb)         | ND:      | None Detected at RL            | CFU:     | Colony Forming Unit    |
| µg/Kg: | Micrograms/Kilogram (ppb)      | pCi/L:   | Picocuries per Liter           | Absent:  | Less than 1 CFU/100mLs |
| %:     | Percent Recovered (surrogates) | RL Mult: | RL Multiplier                  | Present: | 1 or more CFU/100mLs   |
| NR:    | Non-Reportable                 |          |                                |          |                        |

J Estimated value

## Certificate of Analysis

10/02/2013

- B2.4 Analyte detected in associated method blank below the reporting limit. Sample concentration exceeds 10x the amount present and is not materially impacted by this condition.
- B2.3 Analyte detected in associated method blank below the reporting limit. Sample result may be, in part, attributable to ambient laboratory background.
- B2.2 Analyte detected in associated method blank below the reporting limit. Sample result may be attributable to ambient laboratory background.
- B2.0 Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).

A3H2513



## Central Valley RWQCB

centr4730



**08302013**

Turnaround: Standard

Due Date: 9/16/2013





# Sample Integrity



BSK Bottles: Yes No Page 1 of 1

| COC Info   | Was temperature within range?<br>Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$ |                  |  | Were correct containers and preservatives received for the tests requested? |              |                    |       |    |
|--|--|------------------|--|---|--------------|--------------------|-------|----|
|  |  | Yes              | No   | NA  | Yes          | No                 | NA    |    |
| Bottles Received<br><small>"..." means preservation/chlorine checks are either N/A or are performed in the lab</small> | If samples were taken today, is there evidence that chilling has begun?                          |                  |  | Were there bubbles in the VOA vials? (Volatiles Only)                       |              |                    |       |    |
|  | Yes  | No               | NA   | Yes   | No           | NA                 |       |    |
|  | Did all bottles arrive unbroken and intact?  |                  |  | Was a sufficient amount of sample received?                                 |              |                    |       |    |
|  | Yes  | No               |  | Yes   | No           |                    |       |    |
|  | Did all bottle labels agree with COC?  |                  |  | Do samples have a hold time <72 hours?                                      |              |                    |       |    |
| Yes  | No   |                  | Yes  | No  |              |                    |       |    |
| Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?                                     |  |                  | Was PM notified of discrepancies?<br>PM By/Time: |   |              |                    |       |    |
| Yes  | No   | NA               | Yes  | No  | NA           |                    |       |    |
| 250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)  |  | Checks           | Passed?  | 1-6   | 7            | 8-9                | 10-12 | 13 |
| Bacti $\text{Na}_2\text{S}_2\text{O}_3$  |  | —                | —  |   |              |                    |       |    |
| None (P) <sup>White Cap</sup>  |  | —                | —  | 1C  | 1C           |                    | 1C    | 1C |
| Cr6 Buffer (P) <sup>Blue Cap</sup>   |  | pH 9-9.5         | Y N  |   |              |                    |       |    |
| $\text{HNO}_3$ (P) <sup>Red Cap</sup>  |  | —                | —  | 1B  | 1B           |                    | 1B    | 1B |
| $\text{H}_2\text{SO}_4$ (P) <sup>Yellow Cap</sup>  |  | pH $\leq 2$      | Y N  | 1A  |              | 1A                 |       | 1A |
| NaOH (P) <sup>Green Cap</sup>  |  | Cl, pH $\geq 12$ | Y N  |   |              |                    |       |    |
| NaOH + ZnAc (P)  |  | pH $\geq 9$      | Y N  |   |              |                    |       |    |
| Dissolved Oxygen 300ml (g)   |  | —                | —  |   |              |                    |       |    |
| None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270   |  | —                | —  |   |              |                    |       |    |
| $\text{H}_2\text{SO}_4$ (AG) <sup>Yellow Label</sup> O&G, Diesel   |  | —                | —  |   |              |                    |       |    |
| $\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549  |  | —                | —  |   |              |                    |       |    |
| $\text{Na}_2\text{S}_2\text{O}_3$ (AG) <sup>Blue Label</sup> 547, 515, 525, 548  |  | —                | —  |   |              |                    |       |    |
| $\text{Na}_2\text{S}_2\text{O}_3$ (AG) <sup>Blue Label</sup> THMs 524.2 or 524.3                                       |  | —                | —  |   |              |                    |       |    |
| $\text{Na}_2\text{S}_2\text{O}_3$ (CG) <sup>Blue Label</sup> 504, 505  |  | —                | —  |   |              |                    |       |    |
| $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) <sup>Orange Label</sup> 531  |  | pH = 3           | Y N  |   |              |                    |       |    |
| $\text{NH}_4\text{Cl}$ (AG) <sup>Purple Label</sup> 552  |  | —                | —  |   |              |                    |       |    |
| EDA (AG) <sup>Brown Label</sup> DBPs   |  | —                | —  |   |              |                    |       |    |
| Ascorbic + Maleic (AG) <sup>LI Green Label</sup> 524.3   |  | —                | —  |   |              |                    |       |    |
| HCL (CG) 524.2, BTEX, Gas, MTBE 8260/624   |  | —                | —  |   |              |                    |       |    |
| Buffer pH 4 (CG)   |  | —                | —  |   |              |                    |       |    |
| None (CG)  |  | —                | —  |   |              |                    |       |    |
| $\text{H}_3\text{PO}_4$ (CG) <sup>Salmon Label</sup>   |  | —                | —  |   |              |                    |       |    |
| Other:   |  |                  |  |   |              |                    |       |    |
| Asbestos 1Liter Plastic w/ Foil  |  | —                | —  |   |              |                    |       |    |
| Low Level Hg / Metals Double Baggie  |  | —                | —  |   |              |                    |       |    |
| Bottled Water  |  | —                | —  |   |              |                    |       |    |
| Clear Glass Jar: 250 / 500 / 1 Liter   |  | —                | —  |   |              |                    |       |    |
| Soil Tube Brass / Steel / Plastic  |  | —                | —  |   |              |                    |       |    |
| Tedlar Bag / Plastic Bag   |  | —                | —  |   |              |                    |       |    |
| Split  | Container  | Preservative     | Date/Time/Initials                               | Container   | Preservative | Date/Time/Initials |       |    |
|  | S P  |                  |  | S P   |              |                    |       |    |
| Comments   |  |                  |  |   |              |                    |       |    |
|  |  |                  |  |   |              |                    |       |    |

Shan  
8/30/13