Water Quality Technical Memorandum Attachment: Water Quality Analysis, November 26, 2011

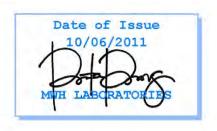


750 Royal Oak Dr., Suite 100 Monrovia, California, 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

### **Laboratory Report**

for

MWH Americas, Inc. 3321 Power Inn Road, Suite 300 Sacramento, CA 95826 Attention: Jamil Ibrahim Fax: 916 924-9102



RSR: Rita Reeves Project Manager



Report#: 371500 Project: USJRBSI Group: Summer WQ

Monitoring

PO#: 1007014.021802

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not peggeproduced except in full, without the written approval of the laboratory.



## STATE CERTIFICATION LIST

| State                                    | Certification Number | State          | Certification Numbe |
|--|----------------------|----------------|---------------------|
| Alabama                                  | 41060                | Mississippi    | Certified           |
| Alaska                                   | CA00006              | Montana        | Cert 0035           |
| Arizona                                  | AZ0455               | Nevada         | CA00006-2010-1      |
| Arkansas                                 | Certified            | New Hampshire  | 2959-11             |
| California – NELAP                       | 01114CA              | New Jersey     | CA 008              |
| California – ELAP                        | 1422                 | New Mexico     | Certified           |
| Colorado                                 | Certified            | New York       | 11320               |
| Connecticut                              | PH-0107              | North Carolina | 06701               |
| Delaware                                 | CA 006               | North Dakota   | R-009               |
| Florida                                  | E871024              | Oregon         | CA 200003-009       |
| Georgia                                  | 947                  | Pennsylvania   | 68-565              |
| Guam                                     | 11-004r              | Rhode Island   | 01114CA             |
| Hawaii                                   | Certified            | South Carolina | 87016001            |
| Idaho                                    | Certified            | South Dakota   | Certified           |
| Illinois                                 | 200033               | Tennessee      | TN02839             |
| Indiana                                  | C-CA-01              | Texas          | T104704230-11-2     |
| Kansas                                   | E-10268              | Utah           | Mont-1              |
| Kentucky                                 | 90107                | Vermont        | VT0114              |
| Louisiana                                | LA110022             | Virginia       | 00210               |
| Maine                                    | CA0006               | Washington     | C383                |
| Maryland                                 | 224                  | West Virginia  | 9943 C              |
| Commonwealth of<br>Northern Marianas Is. | MP0004               | Wisconsin      | 998316660           |
| Massachusetts                            | M-CA006              | Wyoming        | 8TMS-L              |
| Michigan                                 | 9906                 | EPA Region 5   | Certified           |



### **Acknowledgement of Samples Received**

MWH Americas, Inc.

3321 Power Inn Road, Suite 300

Sacramento, CA 95826 Attn: Jamil Ibrahim Phone: 916-924-8844 Customer Code: MWH-SAC

Folder #: 371500 Project: USJRBSI

Sample Group: Summer WQ Monitoring

Project Manager: Rita Reeves

Phone: 916-418-8358 PO #: 1007014.021802

The following samples were received from you on **July 27**, **2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MVVH Laboratories.

| Sample #     | Sample ID                        |                                | Sample Date                      |
|--------------|----------------------------------|--------------------------------|----------------------------------|
| 201107270178 | SJR below Kerckhoff Powerhouse # | 2                              | Jul 26, 2011 08:30               |
|              | @ANIONS28                        | @ANIONS48                      | @ICP                             |
|              | @ICPMS                           | Agressiveness Index-Calculated | Alkalinity in CaCO3 units        |
|              | Anion Sum - Calculated           | Bicarb.Alkalinity as HCO3,calc | Carbon Dioxide, Free (25C)-Calc. |
|              | Carbonate as CO3, Calculated     | Cation Sum - Calculated        | Cation/Anion Difference          |
|              | Fluoride                         | Hydroxide as OH, Calculated    | Langelier Index - 25 degree      |
|              | Langlier Index at 60 degrees C   | PH (H3=past HT not compliant)  | pH of CaCO3 saturation(25C)      |
|              | pH of CaCO3 saturation(60C)      | Specific Conductance           | Surfactants                      |
|              | Total Dissolved Solid (TDS)      | Total Hardness as CaCO3 by ICP | Chlorophyll A (Subbed)           |
|              | Mercury by EPA Method 1631       |                                |                                  |
| 201107270179 | SJR near Auberry                 |                                | Jul 26, 2011 10:15               |
|              | @ANIONS28                        | @ANIONS48                      | @ICP                             |
|              | @ICPMS                           | Agressiveness Index-Calculated | Alkalinity in CaCO3 units        |
|              | Anion Sum - Calculated           | Bicarb.Alkalinity as HCO3,calc | Carbon Dioxide,Free(25C)-Calc.   |
|              | Carbonate as CO3, Calculated     | Cation Sum - Calculated        | Cation/Anion Difference          |
|              | Fluoride                         | Hydroxide as OH, Calculated    | Langelier Index - 25 degree      |
|              | Langlier Index at 60 degrees C   | PH (H3=past HT not compliant)  | pH of CaCO3 saturation(25C)      |
|              | pH of CaCO3 saturation(60C)      | Specific Conductance           | Surfactants                      |
|              | Total Dissolved Solid (TDS)      | Total Hardness as CaCO3 by ICP | Chlorophyll A (Subbed)           |
|              | Mercury by EPA Method 1631       | (5.0.7) (3.0.7)                |                                  |
| 201107270180 | Millerton Lake @ Temperance Flat | transfer to the second         | Jul 26, 2011 13:23               |
|              |                                  |                                |                                  |
|              | @ANIONS28                        | @ANIONS48                      | @ICP                             |
|              | @ICPMS                           | Agressiveness Index-Calculated | Alkalinity in CaCO3 units        |
|              | Anion Sum - Calculated           | Bicarb.Alkalinity as HCO3,calc | Carbon Dioxide, Free (25C)-Calc. |
|              | Carbonate as CO3, Calculated     | Cation Sum - Calculated        | Cation/Anion Difference          |
|              | Fluoride                         | Hydroxide as OH, Calculated    | Langelier Index - 25 degree      |
|              | Langlier Index at 60 degrees C   | PH (H3=past HT not compliant)  | pH of CaCO3 saturation(25C)      |
|              | pH of CaCO3 saturation(60C)      | Specific Conductance           | Surfactants                      |
|              | Total Dissolved Solid (TDS)      | Total Hardness as CaCO3 by ICP | Chlorophyll A (Subbed)           |
|              | Mercury by EPA Method 1631       |                                |                                  |
| 201107270181 | Millerton Lake @ Fine Gold Bay   |                                | Jul 26, 2011 13:55               |

3/53

Reported: 10/06/11



### **Acknowledgement of Samples Received**

MWH Americas, Inc.

3321 Power Inn Road, Suite 300

Sacramento, CA 95826 Attn: Jamil Ibrahim Phone: 916-924-8844 Customer Code: MWH-SAC Folder #: 371500

Project: USJRBSI

Sample Group: Summer WQ Monitoring

Project Manager: Rita Reeves

Phone: 916-418-8358 PO #: 1007014.021802

The following samples were received from you on **July 27**, **2011**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

| Sample # | Sample ID                      |                                | Sample Date                      |
|----------|--------------------------------|--------------------------------|----------------------------------|
|          | @ANIONS28                      | @ANIONS48                      | @ICP                             |
|          | @ICPMS                         | Agressiveness Index-Calculated | Alkalinity in CaCO3 units        |
|          | Anion Sum - Calculated         | Bicarb.Alkalinity as HCO3,calc | Carbon Dioxide, Free (25C)-Calc. |
|          | Carbonate as CO3, Calculated   | Cation Sum - Calculated        | Cation/Anion Difference          |
|          | Fluoride                       | Hydroxide as OH, Calculated    | Langelier Index - 25 degree      |
|          | Langlier Index at 60 degrees C | PH (H3=past HT not compliant)  | pH of CaCO3 saturation(25C)      |
|          | pH of CaCO3 saturation(60C)    | Specific Conductance           | Surfactants                      |
|          | Total Dissolved Solid (TDS)    | Total Hardness as CaCO3 by ICP | Chlorophyll A (Subbed)           |
|          | Mercury by EPA Method 1631     |                                |                                  |
|          |                                |                                |                                  |

### **Test Description**

@ANIONS28 -- Chloride, Sulfate by EPA 300.0

@ANIONS48 -- Nitrate, Nitrite by EPA 300.0

@ICP -- ICP Metals

@ICPMS -- ICPMS Metals

## WWH Laboratories

# CHAIN OF CUSTODY RECORD

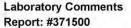
MWH LABS USE ON

|  | MAN LADS O                     | JOE ONE       |               | *************************************** |        | *************************************** |   |                              |                 |                       |   | *************************************** | ***************************************     | the same of the sa | 1  |
|--|--------------------------------|---------------|---------------|---|--------|---|---|------------------------------|-----------------|-----------------------|---|---|---|--|----|
| 750 Royal Oaks Drive, Suite 100  | LOGIN COMMENTS:                |               |               |   |        |   |   | SAMI                         | PLES (          | CHECK                 | ED A                                    | SAINS                                   | SAMPLES CHECKED AGAINST COC BY:             | 3  |    |
| Monrovia, California 91016-3629<br>Tel: 626-386 1100   |                                |               |               |   | 1      |   |   | SAM                          | PLES            | SAMPLES LOGGED IN BY: | NI GE                                   | 3Y:                                     |   |  | ү  |
| Fax; 626 386 1101<br>1 900 566 LABS (1 900 566 5227)   | SAMPLE TEMP WHEN               | REC'D AT LAB: | TLA           | ë                                       |        | (Com                                    | (Compliance: 4 +/- 2*C)                   | SAME                         | LES R           | EC'D D                | AY OF                                   | COLL                                    | SAMPLES REC'D DAY OF COLLECTION?            | (check for yes)  |    |
|  | CONDITION OF BLUE              | ICE:          | FROZEN        | EN                                      |        | PART                                    | PARTIALLY FROZEN                          | _                            | THAWED          | D                     | *************************************** |   |   |  |    |
| TO BE COMPLETED BY SAMPLER:  |                                |               |               |   |        |   |   | (chec                        | (check for yes) |                       |   |   |   | (check for yes)  | 1  |
| COMPANY, UTILITY or PROJECT:   | SYSTEM #:                      |               |               |   | S      | MPLI                                    | COMPLIANCE SAMPLES - Requires state forms | πs                           | П               | NON                   | 1-COM                                   | PLIAN<br>ION IN                         | NON-COMPLIANCE SAMPLES REGULATION INVOLVED: | LES 🛪  |    |
| MWH Americas - SAC1  |                                |               |               | T                                       | ype of | sample                                  | Type of samples (circle one): R           | ROUTINE SPECIAL CONFIRMATION | SPECI           | AL CO                 | NFIRM                                   | ATION                                   | (eg. SD)                                    | (eg. SDWA, Phase V, NPDES, FDA,)   | 2  |
| MWH LABS CLIENT CODE:  | P.O.# / PROJECT JOB #:         | ECT JOB       | #:            | 0)                                      | EE /   | TTA                                     | SEE ATTACHED BOTTLE ORDER FOR ANALYSES    | ORD                          | ER F            | JR AN                 | IALY                                    | SES                                     | (che  | (check for yes), OR  | -  |
| MWH-SAC  | USJRBSI - Summer WQ Monitorin  | ummer W(      | Moni          | torin                                   | list A | NALY                                    | SES REQUIRED (                            | enter n                      | umber           | of bo                 | ttles                                   | ent fo                                  | r each te                                   | list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)  |    |
| SAMPLER PRINTED NAME AND SIGNATAT requested: rush by adv notice only R Ponce 3 day 2 day 1 day | STDX 1 wk 3 day                | fv notice o   | only<br>1 day |   |        |   |   |                              | Yii             |                       | ıre                                     |   |   | SAMPLER  |    |
| SAMPLE STATION STATION   | STATION # or LOCATION          | MATRIX        | CKAB          | COMP                                    | CMMST2 | Нв ьу 163<br>Сһіогорћу                  |   | TDS                          | VitoubnoO       | DO                    | Тетрегат                                | ОВЪ<br>Debtp                            | 770   | COMMENTS   |    |
| 7/26 0830 SJR below Ke   | SJR below kerdroff Buserhouse  | RSW           | ×             |   | ×      | ×                                       | 0.  | 95 10                        | 0,40.           | 1.18 M.O.             | 4.8                                     | 3                                       | G G   | Please send sub  | 0  |
| 7/26 IDIS SJR near Auberry   | berry                          | RSW           | ×             |   | ×      | ×                                       | 0,  | 16. X                        | 6               | Sales Sales           | 0.0                                     | 4                                       | 35  | cocs to AEL 8  |    |
| 1823   | Miller ton Lake Temberance Hat | RSW           | ×             |   | ×      | ×                                       | ъ.  | 45.5                         | 60.             | 0                     | 1.00 P                                  | 3 115                                   |   | CALTEST ASAP   |    |
| 1355   | OFFIRE Gold Bay                | RSW           | ×             |   | ×      | ×                                       | 9.  | 00 100                       | 8               | 0                     | £74                                     | 3 11                                    |   |  | T  |
|  |                                |               |               |   | 0      |   |   |                              |                 |                       |   |   |   |  | -1 |
|  |                                |               |               |   | GL9    | 098                                     |   | 800                          | 50              | N. O.                 | 200                                     | 3                                       | 25 E  | that In Campastan  | 2  |
| #1 97.07932N   | . 51927 W                      |               |               |   | / / 4  |   |   |                              |                 |                       |   |   | 0   | 1.05625 N  |    |
| #2 37.08.924N 119  | 119. 53.661 to                 |               |               |   | 10     | 100                                     |   |                              |                 |                       |   |   |   |  | 1  |
| # 5 57.04/87 N 119   | 19.60928 IV                    |               |               |   | 09     |   |   |                              |                 |                       |   |   |   |  |    |
| # 4 37.0+789 N 10  | na hadagan                     |               |               |   | 06:    |   |   |                              |                 |                       | +                                       |   |   |  | I  |
|  |                                |               |               |   | HE     | : K3                                    |   |                              |                 |                       |   |   |   |  |    |
|  |                                |               |               |   | Wy.    |   |   |                              |                 | -                     |   |   |   |  |    |
|  |                                | (             | PRI           | PRINT NAME                              | 2      |   | CC  | COMPANY/TITLE                | TITLE           |                       |   | 1                                       | DATE  | TIME   |    |
| RELINQUISHED BY: R. Reaves   |                                | 40            | 2             | 8                                       |        |   | 2   | MANT.                        | M               |                       |   |   | 2/26  | 200  |    |
| RECEIVED BY:   | -                              | _             |               | 1                                       |        |   |   |                              |                 |                       |   |   |   |  |    |
| RELINQUISHED BY:   |                                |               |               |   |        |   |   |                              |                 |                       |   |   | 1   |  |    |

PAGE 1 OF 1

RECEIVED BY:

C-0-C#





750 Royal Oak Dr., Suite 100 Monrovia, California, 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

MWH Americas, Inc. Jamil Ibrahim 3321 Power Inn Road, Suite 300 Sacramento, CA 95826

### Group Comments

Analytical results for Chlorophyll A are submitted by Advanced Environmental Laboratories, Inc., Gainesville, FL

### Flags Legend:

BF - Target analyte detected in method blank is at or above the method acceptance limits, but below the method reporting limit (MRL) and analyte not present in the sample.

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MWH Americas, Inc. Jamil Ibrahim 3321 Power Inn Road, Suite 300 Sacramento, CA 95826 Laboratory Hits Report: 371500

| Analyzed   |       | Analyte          | Sample ID                 | Result       | Federal<br>MCL | Units   | MRL    |
|------------|-------|------------------|---------------------------|--------------|----------------|---------|--------|
|            | 201   | 1107270178       | SJR below Kerckhoff Pow   | erhouse #2   |                |         |        |
| 07/29/2011 | 12:18 | Agressiveness    | s Index-Calculated        | 8.9          |                | None    | 0.1    |
| 07/28/2011 | 19:03 | Alkalinity in Ca | aCO3 units                | 13           |                | mg/L    | 2      |
| 08/01/2011 | 20:43 | Aluminum Tot     | al ICAP/MS                | 47           | 200            | ug/L    | 20     |
| 08/01/2011 | 16:42 | Anion Sum - C    | Calculated                | 0.26         |                | meg/L   | 0.001  |
| 08/01/2011 | 20:43 | Barium Total I   | CAP/MS                    | 3.4          | 2000           | ug/L    | 2      |
| 07/29/2011 | 12:18 | Bicarb.Alkalini  | ity as HCO3calc           | 16           |                | mg/L    | 2      |
| 07/27/2011 | 19:46 | Calcium Total    | ICAP                      | 1.5          |                | mg/L    | 1      |
| 07/28/2011 | 10:49 | Cation Sum -     | Calculated                | 0.16         |                | meg/L   | 0.001  |
| 07/27/2011 | 19:46 | Iron Total ICA   | P                         | 0.054        | 0.3            | mg/L    | 0.02   |
| 07/29/2011 | 12:18 | Langelier Inde   | ex - 25 degree            | -2.9         |                | None    |        |
| 07/29/2011 | 12:18 | Langelier Inde   | ex at 60 degrees C        | -2.4         |                | None    |        |
| 07/27/2011 | 19:46 | Magnesium To     | otal ICAP                 | 0.29         |                | mg/L    | 0.1    |
| 08/01/2011 | 20:43 | Manganese T      | otal ICAP/MS              | 5.9          | 50             | ug/L    | 2      |
| 07/29/2011 | 09:21 | Mercury by Ef    | PA Method 1631            | 0.00080      |                | ug/L    | 0.0005 |
| 07/28/2011 | 19:03 | PH (H3=past      | HT not compliant)         | 7.1          |                | Units   | 0.1    |
| 07/28/2011 | 10:49 | pH of CaCO3      | saturation(25C)           | 10           |                | Units   | 0.1    |
| 07/29/2011 | 12:18 | pH of CaCO3      | saturation(60C)           | 9.6          |                | Units   | 0.1    |
| 07/27/2011 | 19:46 | Sodium Total     | ICAP                      | 1.4          |                | mg/L    | 1      |
| 07/28/2011 | 19:03 | Specific Cond    | uctance, 25 C             | 17           |                | umho/cm | 2      |
| 07/28/2011 | 23:21 | Total Dissolve   | ed Solids (TDS)           | 20           | 500            | mg/L    | 10     |
| 07/28/2011 | 10:49 | Total Hardnes    | ss as CaCO3 by ICP (calc) | 4.9          |                | mg/L    | 3      |
|            | 201   | 1107270179       | SJR near Auberry          |              |                |         |        |
| 07/29/2011 | 12:18 | Agressiveness    | s Index-Calculated        | 8.7          |                | None    | 0.1    |
| 07/28/2011 | 19:10 | Alkalinity in Ca | aCO3 units                | 6.9          |                | mg/L    | 2      |
| 08/01/2011 | 20:47 | Aluminum Tot     | al ICAP/MS                | 47           | 200            | ug/L    | 20     |
| 08/01/2011 | 16:42 | Anion Sum - C    | Calculated                | 0.14         |                | meq/L   | 0.001  |
| 08/01/2011 | 20:47 | Barium Total I   | CAP/MS                    | 3.7          | 2000           | ug/L    | 2      |
| 07/29/2011 | 12:18 | Bicarb.Alkalini  | ity as HCO3calc           | 8.4          |                | mg/L    | 2      |
| 07/27/2011 | 19:50 | Calcium Total    | ICAP                      | 1.6          |                | mg/L    | 1      |
| 07/28/2011 | 10:49 | Cation Sum -     | Calculated                | 0.16         |                | meq/L   | 0.001  |
| 07/27/2011 | 19:50 | Iron Total ICA   | P                         | 0.058        | 0.3            | mg/L    | 0.02   |
| 07/29/2011 | 12:18 | Langelier Inde   | ex - 25 degree            | -3.1         |                | None    |        |
| 07/29/2011 | 12:18 | Langelier Inde   | ex at 60 degrees C        | -2.7         |                | None    |        |
| 07/27/2011 | 19:50 | Magnesium To     | otal ICAP                 | 0.29<br>7/53 |                | mg/L    | 0.1    |

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MWH Americas, Inc. Jamil Ibrahim 3321 Power Inn Road, Suite 300 Sacramento, CA 95826

Laboratory Hits Report: 371500

| Analyzed   |       | Analyte         | Sample ID                  | Result  | Federal<br>MCL | Units   | MRL    |
|------------|-------|-----------------|----------------------------|---------|----------------|---------|--------|
| 08/01/2011 | 20:47 | Manganese 7     | Total ICAP/MS              | 6.1     | 50             | ug/L    | 2      |
| 07/29/2011 | 09:21 | Mercury by E    | PA Method 1631             | 0.00080 |                | ug/L    | 0.0005 |
| 07/28/2011 | 19:10 | PH (H3=past     | HT not compliant)          | 7.1     |                | Units   | 0.1    |
| 07/28/2011 | 10:49 | pH of CaCO3     | saturation(25C)            | 10      |                | Units   | 0.1    |
| 07/29/2011 | 12:18 | pH of CaCO3     | saturation(60C)            | 9.9     |                | Units   | 0.1    |
| 07/27/2011 | 19:50 | Sodium Tota     | ICAP                       | 1.4     |                | mg/L    | 1      |
| 07/28/2011 | 19:10 | Specific Cone   | ductance, 25 C             | 17      |                | umho/cm | 2      |
| 07/28/2011 | 23:22 | Total Dissolv   | ed Solids (TDS)            | 18      | 500            | mg/L    | 10     |
| 07/28/2011 | 10:49 | Total Hardne    | ss as CaCO3 by ICP (calc)  | 5.1     |                | mg/L    | 3      |
|            | 201   | 107270180       | Millerton Lake @ Temperano | ce Flat |                |         |        |
| 08/01/2011 | 08:32 | Agressivenes    | ss Index-Calculated        | 9.3     |                | None    | 0.1    |
| 07/28/2011 | 20:46 | Alkalinity in C | CaCO3 units                | 11      |                | mg/L    | 2      |
| 07/29/2011 | 15:02 | Aluminum To     | tal ICAP/MS                | 75      | 200            | ug/L    | 20     |
| 08/01/2011 | 17:04 | Anion Sum -     | Calculated                 | 0.22    |                | meq/L   | 0.001  |
| 07/28/2011 | 14:22 | Barium Total    | ICAP/MS                    | 8.2     | 2000           | ug/L    | 2      |
| 07/29/2011 | 12:23 | Bicarb.Alkalir  | nity as HCO3calc           | 13      |                | mg/L    | 2      |
| 07/29/2011 | 21:57 | Calcium Tota    | ICAP                       | 2.4     |                | mg/L    | 1      |
| 08/01/2011 | 08:32 | Cation Sum -    | Calculated                 | 0.26    |                | meq/L   | 0.001  |
| 08/10/2011 | 10:00 | Chlorophyll A   | C                          | 2.1     |                | mg/m3   | 1.1    |
| 07/29/2011 | 21:57 | Iron Total ICA  | AP .                       | 0.10    | 0.3            | mg/L    | 0.02   |
| 08/01/2011 | 08:32 | Langelier Ind   | ex - 25 degree             | -2.5    |                | None    |        |
| 08/02/2011 | 01:00 | Langelier Ind   | ex at 60 degrees C         | -0.15   |                | None    |        |
| 07/29/2011 | 21:57 | Magnesium 7     | Total ICAP                 | 0.57    |                | mg/L    | 0.1    |
| 07/28/2011 | 14:22 | Manganese 7     | Total ICAP/MS              | 5.9     | 50             | ug/L    | 2      |
| 07/29/2011 | 09:21 | Mercury by E    | PA Method 1631             | 0.00060 |                | ug/L    | 0.0005 |
| 07/28/2011 | 20:46 | PH (H3=past     | HT not compliant)          | 7.4     |                | Units   | 0.1    |
| 08/01/2011 | 08:32 | pH of CaCO3     | saturation(25C)            | 9.9     |                | Units   | 0.1    |
| 08/01/2011 | 08:32 | pH of CaCO3     | 3 saturation(60C)          | 9.5     |                | Units   | 0.1    |
| 07/29/2011 | 21:57 | Sodium Tota     | ICAP                       | 2.2     |                | mg/L    | 1      |
| 07/28/2011 | 20:46 | Specific Con-   | ductance, 25 C             | 27      |                | umho/cm | 2      |
| 07/28/2011 | 23:23 | Total Dissolv   | ed Solids (TDS)            | 27      | 500            | mg/L    | 10     |
| 08/01/2011 | 08:32 | Total Hardne    | ss as CaCO3 by ICP (calc)  | 8.3     |                | mg/L    | 3      |
|            | 201   | 107270181       | Millerton Lake @ Fine Gold | Вау     |                |         |        |
| 07/29/2011 | 12:23 | Agressivenes    | ss Index-Calculated        | 9.3     |                | None    | 0.1    |
|            |       |                 |                            |         |                |         |        |



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| Analyzed   |       | Analyte           | Sample ID                  | Result  | Federal<br>MCL | Units   | MRL    |
|------------|-------|-------------------|----------------------------|---------|----------------|---------|--------|
| 07/28/2011 | 20:55 | Alkalinity in     | CaCO3 units                | 10      |                | mg/L    | 2      |
| 08/01/2011 | 21:34 | Carried to Secure | otal ICAP/MS               | 32      | 200            | ug/L    | 20     |
| 08/01/2011 | 17:04 | Anion Sum -       | Calculated                 | 0.21    |                | meq/L   | 0.001  |
| 08/01/2011 | 21:34 | Barium Tota       | I ICAP/MS                  | 7.0     | 2000           | ug/L    | 2      |
| 07/29/2011 | 12:23 | Bicarb.Alkali     | nity as HCO3calc           | 13      |                | mg/L    | 2      |
| 07/27/2011 | 19:54 | Calcium Tota      |                            | 2.3     |                | mg/L    | 1      |
| 07/28/2011 | 10:49 | Cation Sum        | - Calculated               | 0.25    |                | meg/L   | 0.001  |
| 07/27/2011 | 19:54 | Iron Total IC     | AP                         | 0.031   | 0.3            | mg/L    | 0.02   |
| 07/29/2011 | 12:23 | Langelier Ind     | dex - 25 degree            | -2.6    |                | None    |        |
| 07/29/2011 | 12:23 | Langelier Ind     | dex at 60 degrees C        | -2.1    |                | None    |        |
| 07/27/2011 | 19:54 | Magnesium         | Total ICAP                 | 0.52    |                | mg/L    | 0.1    |
| 08/01/2011 | 21:34 | Manganese         | Total ICAP/MS              | 2.9     | 50             | ug/L    | 2      |
| 07/29/2011 | 09:21 | Mercury by E      | EPA Method 1631            | 0.00050 |                | ug/L    | 0.0005 |
| 07/28/2011 | 20:55 | PH (H3=pas        | t HT not compliant)        | 7.3     |                | Units   | 0.1    |
| 07/28/2011 | 10:49 | pH of CaCO        | 3 saturation(25C)          | 10      |                | Units   | 0.1    |
| 07/29/2011 | 12:23 | pH of CaCO        | 3 saturation(60C)          | 9.6     |                | Units   | 0.1    |
| 07/27/2011 | 19:54 | Sodium Tota       |                            | 2.1     |                | mg/L    | 1      |
| 07/28/2011 | 20:55 | Specific Con      | ductance, 25 C             | 25      |                | umho/cm | 2      |
| 07/28/2011 | 23:24 | Total Dissolv     | ved Solids (TDS)           | 34      | 500            | mg/L    | 10     |
| 07/28/2011 | 10:49 | Total Hardne      | ess as CaCO3 by ICP (calc) | 7.8     |                | mg/L    | 3      |

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MWH Americas, Inc. Jamil Ibrahim 3321 Power Inn Road, Suite 300 Sacramento, CA 95826 Laboratory Data Report: 371500

| Prepared | Analyz      | ed     | QC Ref#  | Method           | Analyte                         | Result  | Units      | MRL [          | Dilution |
|----------|-------------|--------|----------|------------------|---------------------------------|---------|------------|----------------|----------|
| JR below | v Kerckho   | ff Pow | erhouse  | e #2 (2011072701 | (78)                            |         | Sampled on | 07/26/2011 083 | 0        |
|          |             | EPA :  | 1631 - M | ercury by EPA 1  | 631 (Sub)                       |         |            |                |          |
| 1        | 07/29/2011  | 09:21  |          | (EPA 1631)       | Mercury by EPA Method 1631      | 0.00080 | ug/L       | 0.0005         | 1        |
|          |             | SM 10  | 0200-Н - | Chlorophyll A (  | Subbed)                         |         |            |                |          |
| (        | 08/10/2011  | 10:00  |          | (SM 10200-H)     | Chlorophyll A                   | <1.1    | mg/m3      | 1.1            | 1        |
|          |             | SM 2   | 330B - p | H of CaCO3 satu  | ration(60C)                     |         |            |                |          |
| - (      | 07/29/2011  | 12:18  |          | (SM 2330B)       | pH of CaCO3 saturation(60C)     | 9.6     | Units      | 0.1            | 1        |
|          |             | SM 2   | 330B - L | angelier Index - | 25 degree                       |         |            |                |          |
| (        | 07/29/2011  | 12:18  |          | (SM 2330B)       | Langelier Index - 25 degree     | -2.9    | None       |                | 1        |
|          |             | SM 1   | 030E - A | nion Sum - Calc  | ulated                          |         |            |                |          |
| (        | 08/01/2011  | 16:42  |          | (SM 1030E)       | Anion Sum - Calculated          | 0.26    | meq/L      | 0.001          | 1        |
|          |             | SM 10  | 030E - C | ation Sum - Cald | culated                         |         |            |                |          |
| (        | 07/28/2011  | 10:49  |          | (SM 1030E)       | Cation Sum - Calculated         | 0.16    | meq/L      | 0.001          | 1        |
|          |             | SM 2   | 330B - p | H of CaCO3 satu  | ıration(25C)                    |         |            |                |          |
| (        | 07/28/2011  | 10:49  |          | (SM 2330B)       | pH of CaCO3 saturation(25C)     | 10      | Units      | 0.1            | 1        |
|          |             |        | 330 - Ag | ressiveness Ind  |                                 |         |            |                |          |
| (        | 07/29/2011  | 12:18  |          | (SM 2330)        | Agressiveness Index-Calculated  | 8.9     | None       | 0.1            | 1        |
|          |             |        | 330B - L | anglier Index at |                                 |         |            |                |          |
| (        | 07/29/2011  | 12:18  |          | (SM 2330B)       | Langelier Index at 60 degrees C | -2.4    | None       |                | 1        |
|          |             |        | 030E - C | ation/Anion Diff |                                 |         |            |                |          |
| (        | 07/29/2011  | 01:01  |          | (SM 1030E)       | Cation/Anion Difference         | 23      | %          |                | 1        |
|          | 12/5/10/201 |        |          | CPMS Metals      | Fundam                          |         |            |                |          |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Aluminum Total ICAP/MS          | 47      | ug/L       | 20             | 1        |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Antimony Total ICAP/MS          | ND      | ug/L       | 1              | 1        |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Arsenic Total ICAP/MS           | ND      | ug/L       | 1              | 1        |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Barium Total ICAP/MS            | 3.4     | ug/L       | 2              | 1        |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Beryllium Total ICAP/MS         | ND      | ug/L       | 1              | 1        |
| (        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Cadmium Total ICAP/MS           | ND      | ug/L       | 0.5            | 1        |
| (        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Chromium Total ICAP/MS          | ND      | ug/L       | 1              | 1        |
| (        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Copper Total ICAP/MS            | ND      | ug/L       | 2              | 1        |
| (        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Lead Total ICAP/MS              | ND      | ug/L       | 0.5            | 1        |
| 1        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Manganese Total ICAP/MS         | 5.9     | ug/L       | 2              | 1        |
| (        | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Nickel Total ICAP/MS            | ND      | ug/L       | 5              | 1        |
|          | 08/01/2011  | 20:43  | 612022   | (EPA 200.8)      | Selenium Total ICAP/MS          | ND      | ug/L       | .5             | 1        |

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| Prepared        | Analyz     | zed   | QC Ref#    | Method                | Analyte                               | Result | Units | MRL  | Dilution |
|-----------------|------------|-------|------------|-----------------------|---------------------------------------|--------|-------|------|----------|
|                 | 08/04/2011 | 18:34 | 612625     | (EPA 200.8)           | Silver Total ICAP/MS                  | ND     | ug/L  | 0.5  | 1        |
|                 | 08/01/2011 | 20:43 | 612022     | (EPA 200.8)           | Thallium Total ICAP/MS                | ND     | ug/L  | 1    | 1        |
|                 | 08/01/2011 | 20:43 | 612022     | (EPA 200.8)           | Zinc Total ICAP/MS                    | ND     | ug/L  | 20   | 1        |
|                 |            | EPA   | 200.7 - IC | P Metals              |                                       |        |       |      |          |
|                 | 07/27/2011 | 19:46 | 611365     | (EPA 200.7)           | Calcium Total ICAP                    | 1.5    | mg/L  | 1    | 1        |
|                 | 07/27/2011 | 19:46 | 611365     | (EPA 200.7)           | Iron Total ICAP                       | 0.054  | mg/L  | 0.02 | 1        |
|                 | 07/27/2011 | 19:46 | 611365     | (EPA 200.7)           | Magnesium Total ICAP                  | 0.29   | mg/L  | 0.1  | 1        |
|                 | 07/27/2011 | 19:46 | 611365     | (EPA 200.7)           | Potassium Total ICAP                  | ND     | mg/L  | 1    | 1        |
|                 | 07/27/2011 | 19:46 | 611365     | (EPA 200.7)           | Sodium Total ICAP                     | 1.4    | mg/L  | 1    | 1        |
|                 |            | EPA   | 300.0 - N  | itrate, Nitrite by EP | A 300.0                               |        |       |      |          |
|                 | 07/27/2011 | 16:21 | 611472     | (EPA 300.0)           | Nitrate as Nitrogen by IC             | ND     | mg/L  | 0.1  | 1        |
|                 | 07/27/2011 | 16:21 | 611472     | (EPA 300.0)           | Nitrate as NO3 (calc)                 | ND     | mg/L  | 0.44 | 1        |
|                 | 07/27/2011 | 16:21 | 611472     | (EPA 300.0)           | Nitrite Nitrogen by IC                | ND     | mg/L  | 0.05 | 1        |
|                 | 07/27/2011 | 16:21 | 611472     | (EPA 300.0)           | Total Nitrate, Nitrite-N, CALC        | ND     | mg/L  | 0.1  | 1        |
|                 |            | EPA   | 300.0 - C  | hloride, Sulfate by   | EPA 300.0                             |        |       |      |          |
|                 | 07/27/2011 | 16:21 | 611479     | (EPA 300.0)           | Chloride                              | ND     | mg/L  | 1    | 1        |
|                 | 07/27/2011 | 16:21 | 611479     | (EPA 300.0)           | Sulfate                               | ND     | mg/L  | 0.5  | 1        |
|                 |            | SM23  | 30B - Hy   | droxide as OH, Ca     | lculated                              |        |       |      |          |
|                 | 07/29/2011 | 12:18 |            | (SM2330B)             | Hydroxide as OH Calculated            | ND     | mg/L  | 2    | 1        |
|                 |            | SM45  | 500-CO2-   | D - Carbon Dioxide    | ,Free(25C)-Calc.                      |        |       |      |          |
|                 | 07/29/2011 | 12:18 |            | (SM4500-CO2-D)        | Carbon Dioxide,Free(25C)-Calc.        | ND     | mg/L  | 2    | 1        |
|                 |            | SM 4  | 500F-C -   | Fluoride              |                                       |        |       |      |          |
|                 | 07/31/2011 | 18:02 | 611783     | (SM 4500F-C)          | Fluoride                              | ND     | mg/L  | 0.05 | 1        |
|                 |            |       | 330B - Ca  | rbonate as CO3, C     | alculated                             |        |       |      |          |
|                 | 07/29/2011 | 12:18 |            | (SM2330B)             | Carbonate as CO3, Calculated          | ND     | mg/L  | 2    | 1        |
|                 |            |       | 340B - To  | otal Hardness as C    |                                       |        |       |      |          |
|                 | 07/28/2011 | 10:49 |            | (SM 2340B)            | Total Hardness as CaCO3 by ICP (calc) | 4.9    | mg/L  | 3    | 1        |
|                 |            |       |            | kalinity in CaCO3     |                                       |        |       |      |          |
|                 | 07/28/2011 |       |            | (SM 2320B)            | Alkalinity in CaCO3 units             | 13     | mg/L  | 2    | 1        |
| a service de la |            |       |            | OC - Total Dissolve   |                                       | 6.6    |       |      |          |
| 7/28/2011       | 07/28/2011 | 23:21 |            | (E160.1/SM2540C)      | Total Dissolved Solids (TDS)          | 20     | mg/L  | 10   | 1        |
|                 |            |       |            | PH (H3=past HT no     |                                       | 064.0  |       |      |          |
|                 | 07/28/2011 |       |            | (SM4500-HB)           | PH (H3=past HT not compliant)         | 7.1    | Units | 0.1  | 1        |
|                 |            | SM 5  | 540C/EP    | A 425.1 - Surfactan   | ts                                    |        |       |      |          |

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| Prepared | Analyz     | zed    | QC Ref#    | Method                            | Analyte                                    | Result  | Units      | MRL           | Dilution |
|----------|------------|--------|------------|-----------------------------------|--|---------|------------|---------------|----------|
|          | 07/27/2011 | 15:12  | 611492     | (SM 5540C/EPA<br>425.1)           | Surfactants                                | ND      | mg/L       | 0.05          | 1        |
|          |            | SM23   | 30B - Bi   | carb.Alkalinity as                | HCO3,calc                                  |         |            |               |          |
|          | 07/29/2011 | 12:18  |            | (SM2330B)                         | Bicarb.Alkalinity as HCO3calc              | 16      | mg/L       | 2             | 1        |
|          |            | SM25   | 10B - Sp   | ecific Conductan                  | ce   |         |            |               |          |
|          | 07/28/2011 | 19:03  | 611727     | (SM2510B)                         | Specific Conductance, 25 C                 | 17      | umho/cm    | 2             | 1        |
| SJR near | Auberry (  | 201107 | 270179)    |                                   |  |         | Sampled on | 07/26/2011 10 | 15       |
|          |            | EPA 1  | 1631 - M   | ercury by EPA 16:                 | 31 (Sub)                                   |         |            |               |          |
|          | 07/29/2011 | 09:21  |            | (EPA 1631)                        | Mercury by EPA Method 1631                 | 0.00080 | ug/L       | 0.0005        | 1        |
|          |            | SM 10  | 0200-H -   | Chlorophyll A (Su                 | bbed)                                      |         |            |               |          |
|          | 08/10/2011 | 10:00  |            | (SM 10200-H)                      | Chlorophyll A                              | <1.1    | mg/m3      | 1.1           | 1        |
|          |            | SM 23  | 330B - pl  | H of CaCO3 satura                 | ation(60C)                                 |         |            |               |          |
|          | 07/29/2011 | 12:18  |            | (SM 2330B)                        | pH of CaCO3 saturation(60C)                | 9.9     | Units      | 0.1           | 1        |
|          |            |        | 330B - La  | angelier Index - 25               |  |         |            |               |          |
|          | 07/29/2011 | 12:18  |            | (SM 2330B)                        | Langelier Index - 25 degree                | -3.1    | None       |               | 1        |
|          | 2212772277 |        | 030E - A   | nion Sum - Calcul                 |  | -2.5    |            |               |          |
|          | 08/01/2011 | 16:42  |            | (SM 1030E)                        | Anion Sum - Calculated                     | 0.14    | meq/L      | 0.001         | 1        |
|          |            |        | 030E - C   | ation Sum - Calcu                 |  | 2.42    |            |               |          |
|          | 07/28/2011 | 10:49  |            | (SM 1030E)                        | Cation Sum - Calculated                    | 0.16    | meq/L      | 0.001         | 1        |
|          | 27/20/2011 |        | 330B - pl  | H of CaCO3 satura                 |  |         | .Vacabo    |               |          |
|          | 07/28/2011 | 10:49  |            | (SM 2330B)                        | pH of CaCO3 saturation(25C)                | 10      | Units      | 0.1           | 1        |
|          | 07/29/2011 |        | 330 - Agi  | ressiveness Index                 | -Calculated Agressiveness Index-Calculated | 8.7     | 46         |               | -        |
|          | 07/29/2011 | 12:18  | 222        | (SM 2330)                         |  | 0.7     | None       | 0.1           | 1        |
|          | 07/29/2011 | 12:18  | 330B - L   | anglier Index at 60<br>(SM 2330B) | Langelier Index at 60 degrees C            | -2.7    | None       |               | 1        |
|          | UNZUZUTT   |        | 120E C     | ation/Anion Differ                |  | 2.,     | None       |               | 1        |
|          | 07/29/2011 | 01:01  | 030E - C   | (SM 1030E)                        | Cation/Anion Difference                    | 8.5     | %          |               | 1        |
|          | 411-41-411 |        | 200 8 . 10 | CPMS Metals                       | 2333377 11137 21137                        | 9.5     | 70         |               |          |
|          | 08/01/2011 |        | 612022     | (EPA 200.8)                       | Aluminum Total ICAP/MS                     | 47      | ug/L       | 20            | 1        |
|          | 08/01/2011 | 20:47  | 612022     | (EPA 200.8)                       | Antimony Total ICAP/MS                     | ND      | ug/L       | 1             | 1        |
|          | 08/01/2011 |        | 612022     | (EPA 200.8)                       | Arsenic Total ICAP/MS                      | ND      | ug/L       | 1             | 1        |
|          | 08/01/2011 | 20:47  | 612022     | (EPA 200.8)                       | Barium Total ICAP/MS                       | 3.7     | ug/L       | 2             | 1        |
|          | 08/01/2011 | 20:47  | 612022     | (EPA 200.8)                       | Beryllium Total ICAP/MS                    | ND      | ug/L       | 1             | 1        |
|          | 08/01/2011 | 20:47  | 612022     | (EPA 200.8)                       | Cadmium Total ICAP/MS                      | ND      | ug/L       | 0.5           | 4        |
|          | 08/01/2011 |        |            | (EPA 200.8)                       | Chromium Total ICAP/MS                     | ND      | ug/L       | 1             | 1        |

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| Prepared | Analyz     | zed   | QC Ref#    | Method               | Analyte                               | Result | Units | MRL  | Dilution |
|----------|------------|-------|------------|----------------------|---------------------------------------|--------|-------|------|----------|
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Copper Total ICAP/MS                  | ND     | ug/L  | 2    | 1        |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Lead Total ICAP/MS                    | ND     | ug/L  | 0.5  | 1        |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Manganese Total ICAP/MS               | 6.1    | ug/L  | 2    |          |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Nickel Total ICAP/MS                  | ND     | ug/L  | 5    | 41       |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Selenium Total ICAP/MS                | ND     | ug/L  | 5    | 1        |
|          | 08/04/2011 | 18:30 | 612625     | (EPA 200.8)          | Silver Total ICAP/MS                  | ND     | ug/L  | 0.5  | 1        |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Thallium Total ICAP/MS                | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 20:47 | 612022     | (EPA 200.8)          | Zinc Total ICAP/MS                    | ND     | ug/L  | 20   | 1        |
|          |            | EPA   | 200.7 - 10 | P Metals             |                                       |        |       |      |          |
|          | 07/27/2011 | 19:50 | 611365     | (EPA 200.7)          | Calcium Total ICAP                    | 1.6    | mg/L  | 1    | 1        |
|          | 07/27/2011 | 19:50 | 611365     | (EPA 200.7)          | Iron Total ICAP                       | 0.058  | mg/L  | 0.02 | 1        |
|          | 07/27/2011 | 19:50 | 611365     | (EPA 200.7)          | Magnesium Total ICAP                  | 0.29   | mg/L  | 0.1  | 1        |
|          | 07/27/2011 | 19:50 | 611365     | (EPA 200.7)          | Potassium Total ICAP                  | ND     | mg/L  | 1    | 1        |
|          | 07/27/2011 | 19:50 | 611365     | (EPA 200.7)          | Sodium Total ICAP                     | 1.4    | mg/L  | 1    | 1        |
|          |            | EPA   | 300.0 - N  | itrate, Nitrite by E | PA 300.0                              |        |       |      |          |
|          | 07/27/2011 | 18:48 | 611282     | (EPA 300.0)          | Nitrate as Nitrogen by IC             | ND     | mg/L  | 0.1  | 1        |
|          | 07/27/2011 | 18:48 | 611282     | (EPA 300.0)          | Nitrate as NO3 (calc)                 | ND     | mg/L  | 0.44 | 1        |
|          | 07/27/2011 | 18:48 | 611282     | (EPA 300.0)          | Nitrite Nitrogen by IC                | ND     | mg/L  | 0.05 | 1        |
|          | 07/27/2011 | 18:48 | 611282     | (EPA 300.0)          | Total Nitrate, Nitrite-N, CALC        | ND     | mg/L  | 0.1  | 1        |
|          |            | EPA   | 300.0 - C  | hloride, Sulfate by  | y EPA 300.0                           |        |       |      |          |
|          | 07/27/2011 | 18:48 | 611283     | (EPA 300.0)          | Chloride                              | ND     | mg/L  | 1    | 1        |
|          | 07/27/2011 | 18:48 | 611283     | (EPA 300.0)          | Sulfate                               | ND     | mg/L  | 0.5  | 1        |
|          |            | SM23  | 330B - Hy  | droxide as OH, C     | alculated                             |        |       |      |          |
|          | 07/29/2011 | 12:18 |            | (SM2330B)            | Hydroxide as OH Calculated            | ND     | mg/L  | 2    | 1        |
|          |            | SM45  | 500-CO2-   | D - Carbon Dioxid    | le,Free(25C)-Calc.                    |        |       |      |          |
|          | 07/29/2011 | 12:18 |            | (SM4500-CO2-D)       | Carbon Dioxide, Free (25C)-Calc.      | ND     | mg/L  | 2    | 1        |
|          |            | SM 4  | 500F-C -   | Fluoride             |                                       |        |       |      |          |
|          | 07/31/2011 | 18:10 | 611783     | (SM 4500F-C)         | Fluoride                              | ND     | mg/L  | 0.05 | 1        |
|          |            | SM23  | 330B - Ca  | rbonate as CO3, 0    | Calculated                            |        |       |      |          |
|          | 07/29/2011 | 12:18 |            | (SM2330B)            | Carbonate as CO3, Calculated          | ND     | mg/L  | 2    | 1        |
|          |            | SM 2  | 340B - To  | otal Hardness as (   | CaCO3 by ICP                          |        |       |      |          |
|          | 07/28/2011 | 10:49 |            | (SM 2340B)           | Total Hardness as CaCO3 by ICP (calc) | 5.1    | mg/L  | 3    | 1        |
|          |            |       |            | kalinity in CaCO3    |                                       |        |       |      |          |
|          | 07/28/2011 | 19:10 | 611533     | (SM 2320B)           | Alkalinity in CaCO3 units             | 6.9    | mg/L  | 2    | 1        |

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| Prepared  | Analyz     | zed   | QC Ref#    | Method                  | Analyte                         | Result  | Units      | MRL           | Dilution |
|-----------|------------|-------|------------|-------------------------|---------------------------------|---------|------------|---------------|----------|
| 7/28/2011 | 07/28/2011 | 23:22 | 611656     | (E160.1/SM2540C)        | Total Dissolved Solids (TDS)    | 18      | mg/L       | 10            | 1        |
|           |            | SM450 | 00-HB -    | PH (H3=past HT no       | ot compliant)                   |         |            |               |          |
|           | 07/28/2011 |       |            | (SM4500-HB)             | PH (H3=past HT not compliant)   | 7.1     | Units      | 0.1           | 1        |
|           |            | SM 55 | 40C/EP     | A 425.1 - Surfactar     | nts                             |         |            |               |          |
|           | 07/27/2011 | 15:15 | 611492     | (SM 5540C/EPA<br>425.1) | Surfactants                     | ND      | mg/L       | 0.05          | 1        |
|           |            | SM23  | 30B - Bi   | carb.Alkalinity as I    | HCO3,calc                       |         |            |               |          |
|           | 07/29/2011 | 12:18 |            | (SM2330B)               | Bicarb.Alkalinity as HCO3calc   | 8.4     | mg/L       | 2             | 1        |
|           |            | SM25  | 10B - Sp   | ecific Conductano       | e                               |         |            |               |          |
|           | 07/28/2011 | 19:10 | 611727     | (SM2510B)               | Specific Conductance, 25 C      | 17      | umho/cm    | 2             | 1        |
| lillerton | Lake @ Te  | mpera | nce Flat   | (201107270180)          |                                 |         | Sampled on | 07/26/2011 13 | 323      |
|           |            | EPA 1 | 631 - M    | ercury by EPA 163       | 1 (Sub)                         |         |            |               |          |
|           | 07/29/2011 | 09:21 |            | (EPA 1631)              | Mercury by EPA Method 1631      | 0.00060 | ug/L       | 0.0005        | 1        |
|           |            | SM 10 | 200-H -    | Chlorophyll A (Sul      | bbed)                           |         |            |               |          |
|           | 08/10/2011 | 10:00 |            | (SM 10200-H)            | Chlorophyll A                   | 2.1     | mg/m3      | 1.1           | 1        |
|           |            | SM 23 | 30B - pl   | H of CaCO3 satura       | tion(60C)                       |         |            |               |          |
|           | 08/01/2011 | 08:32 |            | (SM 2330B)              | pH of CaCO3 saturation(60C)     | 9.5     | Units      | 0.1           | 1        |
|           |            | SM 23 | 30B - La   | angelier Index - 25     | degree                          |         |            |               |          |
|           | 08/01/2011 |       |            | (SM 2330B)              | Langelier Index - 25 degree     | -2.5    | None       |               | 1        |
|           |            | SM 10 | 30E - A    | nion Sum - Calcula      | ited                            |         |            |               |          |
|           | 08/01/2011 | 17:04 |            | (SM 1030E)              | Anion Sum - Calculated          | 0.22    | meq/L      | 0.001         | 1        |
|           |            | SM 10 | 30E - C    | ation Sum - Calcula     | ated                            |         |            |               |          |
|           | 08/01/2011 | 08:32 |            | (SM 1030E)              | Cation Sum - Calculated         | 0.26    | meq/L      | 0.001         | 1        |
|           |            | SM 23 | 30B - pl   | H of CaCO3 satura       | tion(25C)                       |         |            |               |          |
|           | 08/01/2011 | 08:32 |            | (SM 2330B)              | pH of CaCO3 saturation(25C)     | 9.9     | Units      | 0.1           | 1        |
|           |            | SM 23 | 30 - Agi   | ressiveness Index-      | Calculated                      |         |            |               |          |
|           | 08/01/2011 | 08:32 |            | (SM 2330)               | Agressiveness Index-Calculated  | 9.3     | None       | 0.1           | 1        |
|           |            | SM 23 | 30B - La   | anglier Index at 60     | degrees C                       |         |            |               |          |
|           | 08/02/2011 | 01:00 |            | (SM 2330B)              | Langelier Index at 60 degrees C | -0.15   | None       |               | 1        |
|           |            | SM 10 | 30E - C    | ation/Anion Differe     | nce                             |         |            |               |          |
|           | 08/01/2011 | 17:04 |            | (SM 1030E)              | Cation/Anion Difference         | 8.8     | %          |               | 1        |
|           |            | EPA 2 | 200.8 - 10 | CPMS Metals             |                                 |         |            |               |          |
|           | 07/29/2011 |       |            | (EPA 200.8)             | Aluminum Total ICAP/MS          | 75      | ug/L       | 20            | 1        |
|           | 07/28/2011 | 14:22 | 611526     | (EPA 200.8)             | Antimony Total ICAP/MS          | ND      | ug/L       | 1             | 1        |
|           | 07/28/2011 | 14.22 | 611526     | (EPA 200.8)             | Arsenic Total ICAP/MS           | ND      | ug/L       | 1             | 1        |

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| Prepared | Analyz     | zed        | QC Ref#    | Method                | Analyte                        | Result  | Units | MRL  | Dilution |
|----------|------------|------------|------------|-----------------------|--------------------------------|---------|-------|------|----------|
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Barium Total ICAP/MS           | 8.2     | ug/L  | 2    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Beryllium Total ICAP/MS        | ND      | ug/L  | 1    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Cadmium Total ICAP/MS          | ND      | ug/L  | 0.5  | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Chromium Total ICAP/MS         | ND      | ug/L  | 1    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Copper Total ICAP/MS           | ND      | ug/L  | 2    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Lead Total ICAP/MS             | ND      | ug/L  | 0.5  | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Manganese Total ICAP/MS        | 5.9     | ug/L  | 2    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Nickel Total ICAP/MS           | ND      | ug/L  | 5    | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Selenium Total ICAP/MS         | ND      | ug/L  | 5    | 1        |
|          | 08/04/2011 | 18:35      | 612625     | (EPA 200.8)           | Silver Total ICAP/MS           | ND      | ug/L  | 0.5  | 1        |
|          | 07/28/2011 | 14:22      | 611526     | (EPA 200.8)           | Thallium Total ICAP/MS         | ND      | ug/L  | 1    | 1        |
|          | 08/04/2011 | 20:15      | 612632     | (EPA 200.8)           | Zinc Total ICAP/MS             | ND      | ug/L  | 20   | 1        |
|          |            | EPA        | 200.7 - 10 | CP Metals             |                                |         |       |      |          |
|          | 07/29/2011 | 21:57      | 611840     | (EPA 200.7)           | Calcium Total ICAP             | 2.4     | mg/L  | 1    | 1        |
|          | 07/29/2011 | 21:57      | 611840     | (EPA 200.7)           | Iron Total ICAP                | 0.10    | mg/L  | 0.02 | 1        |
|          | 07/29/2011 | 21:57      | 611840     | (EPA 200.7)           | Magnesium Total ICAP           | 0.57    | mg/L  | 0.1  | 1        |
|          | 07/29/2011 | 21:57      | 611840     | (EPA 200.7)           | Potassium Total ICAP           | ND      | mg/L  | 1    | 1        |
|          | 07/29/2011 | 21:57      | 611840     | (EPA 200.7)           | Sodium Total ICAP              | 2.2     | mg/L  | 1    | 1        |
|          |            | <b>EPA</b> | 300.0 - N  | litrate, Nitrite by E | PA 300.0                       |         |       |      |          |
|          | 07/27/2011 | 16:34      | 611472     | (EPA 300.0)           | Nitrate as Nitrogen by IC      | ND      | mg/L  | 0.1  | 1        |
|          | 07/27/2011 | 16:34      | 611472     | (EPA 300.0)           | Nitrate as NO3 (calc)          | ND      | mg/L  | 0.44 | 1        |
|          | 07/27/2011 | 16:34      | 611472     | (EPA 300.0)           | Nitrite Nitrogen by IC         | ND      | mg/L  | 0.05 | 1        |
|          | 07/27/2011 | 16:34      | 611472     | (EPA 300.0)           | Total Nitrate, Nitrite-N, CALC | ND      | mg/L  | 0.1  | 1        |
|          |            | EPA        | 300.0 - C  | hloride, Sulfate by   | / EPA 300.0                    |         |       |      |          |
|          | 07/27/2011 | 16:34      | 611479     | (EPA 300.0)           | Chloride                       | ND      | mg/L  | 1    | 1        |
|          | 07/27/2011 | 16:34      | 611479     | (EPA 300.0)           | Sulfate                        | ND      | mg/L  | 0.5  | 1        |
|          |            | SM2        | 330B - Hy  | droxide as OH, Ca     | alculated                      |         |       |      |          |
|          | 07/29/2011 | 12:23      |            | (SM2330B)             | Hydroxide as OH Calculated     | ND      | mg/L  | 2    | 1        |
|          |            | SM4        | 500-CO2-   | D - Carbon Dioxid     | e,Free(25C)-Calc.              |         |       |      |          |
|          | 07/29/2011 | 12:23      |            | (SM4500-CO2-D)        | Carbon Dioxide,Free(25C)-Calc. | ND      | mg/L  | 2    | 1        |
|          |            | SM 4       | 500F-C -   | Fluoride              |                                |         |       |      |          |
|          | 07/31/2011 | 20:04      | 612027     | (SM 4500F-C)          | Fluoride                       | ND (BF) | mg/L  | 0.05 | 1        |
|          |            | SM2        | 330B - Ca  | arbonate as CO3, 0    | Calculated                     |         |       |      |          |
|          | 07/29/2011 | 12:23      |            | (SM2330B)             | Carbonate as CO3, Calculated   | ND      | mg/L  | 2    | 1        |
|          |            | SM 2       | 340B - T   | otal Hardness as (    | CaCO3 by ICP                   |         |       |      |          |

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| Prepared  | Analyz     | zed QC Ref#    | Method                  | Analyte                               | Result  | Units      | MRL           | Dilution |
|-----------|------------|----------------|-------------------------|---------------------------------------|---------|------------|---------------|----------|
|           | 08/01/2011 | 08:32          | (SM 2340B)              | Total Hardness as CaCO3 by ICP (calc) | 8.3     | mg/L       | 3             | 1        |
|           |            | SM 2320B - A   | Ikalinity in CaCO3      | units                                 |         |            |               |          |
|           | 07/28/2011 |                |                         | Alkalinity in CaCO3 units             | 11      | mg/L       | 2             | 1        |
|           |            | E160.1/SM254   | 40C - Total Dissolv     | ed Solids (TDS)                       |         |            |               |          |
| /28/2011  | 07/28/2011 | 23:23 611656   | (E160.1/SM2540C)        | Total Dissolved Solids (TDS)          | 27      | mg/L       | 10            | 1        |
|           |            | SM4500-HB -    | PH (H3=past HT no       | ot compliant)                         |         |            |               |          |
|           | 07/28/2011 |                |                         | PH (H3=past HT not compliant)         | 7.4     | Units      | 0.1           | 1        |
|           |            | SM 5540C/EP    | A 425.1 - Surfactar     | nts                                   |         |            |               |          |
|           | 07/27/2011 | 15:16 611492   | (SM 5540C/EPA<br>425.1) | Surfactants                           | ND      | mg/L       | 0.05          | 1        |
|           |            | SM2330B - Bi   | carb.Alkalinity as I    | HCO3,calc                             |         |            |               |          |
|           | 07/29/2011 | 12:23          | (SM2330B)               | Bicarb.Alkalinity as HCO3calc         | 13      | mg/L       | 2             | 1        |
|           |            | SM2510B - Sp   | pecific Conductant      | ce                                    |         |            |               |          |
|           | 07/28/2011 | 20:46 611730   | (SM2510B)               | Specific Conductance, 25 C            | 27      | umho/cm    | 2             | 1        |
| Millerton | Lake @ Fi  | ne Gold Bay (2 | 201107270181)           |                                       |         | Sampled on | 07/26/2011 13 | 355      |
|           |            | EPA 1631 - M   | ercury by EPA 163       | 1 (Sub)                               |         |            |               |          |
|           | 07/29/2011 | 09:21          | (EPA 1631)              | Mercury by EPA Method 1631            | 0.00050 | ug/L       | 0.0005        | 1        |
|           |            | SM 10200-H -   | Chlorophyll A (Su       | bbed)                                 |         |            |               |          |
|           | 08/10/2011 | 10:00          | (SM 10200-H)            | Chlorophyll A                         | <1.1    | mg/m3      | 1.1           | 1        |
|           |            | SM 2330B - p   | H of CaCO3 satura       | tion(60C)                             |         |            |               |          |
|           | 07/29/2011 | 12:23          | (SM 2330B)              | pH of CaCO3 saturation(60C)           | 9.6     | Units      | 0.1           | 1        |
|           |            | SM 2330B - L   | angelier Index - 25     | degree                                |         |            |               |          |
|           | 07/29/2011 | 12:23          | (SM 2330B)              | Langelier Index - 25 degree           | -2.6    | None       |               | 1        |
|           |            | SM 1030E - A   | nion Sum - Calcula      | ated                                  |         |            |               |          |
|           | 08/01/2011 | 17:04          | (SM 1030E)              | Anion Sum - Calculated                | 0.21    | meq/L      | 0.001         | 1        |
|           |            | SM 1030E - C   | ation Sum - Calcul      | ated                                  |         |            |               |          |
|           | 07/28/2011 | 10:49          | (SM 1030E)              | Cation Sum - Calculated               | 0.25    | meq/L      | 0.001         | 1        |
|           |            | SM 2330B - p   | H of CaCO3 satura       |                                       |         |            |               |          |
|           | 07/28/2011 | 10:49          | (SM 2330B)              | pH of CaCO3 saturation(25C)           | 10      | Units      | 0.1           | 1        |
|           |            | SM 2330 - Ag   | ressiveness Index-      | -Calculated                           |         |            |               |          |
|           | 07/29/2011 | 12:23          | (SM 2330)               | Agressiveness Index-Calculated        | 9.3     | None       | 0.1           | 1        |
|           |            | SM 2330B - L   | anglier Index at 60     | degrees C                             |         |            |               |          |
|           | 07/29/2011 | 12:23          | (SM 2330B)              | Langelier Index at 60 degrees C       | -2.1    | None       |               | 1        |
|           |            | SM 1030E - C   | ation/Anion Differe     | ence                                  |         |            |               |          |
|           | 07/29/2011 | 01:01          | (SM 1030E)              | Cation/Anion Difference               | 9.0     | %          |               | 1        |

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| Prepared | Analyz     | zed   | QC Ref#    | Method                | Analyte   | Result | Units | MRL  | Dilution |
|----------|------------|-------|------------|-----------------------|---|--------|-------|------|----------|
|          |            | EPA   | 200.8 - IC | CPMS Metals           |   |        |       |      |          |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Aluminum Total ICAP/MS  | 32     | ug/L  | 20   | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Antimony Total ICAP/MS  | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Arsenic Total ICAP/MS   | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Barium Total ICAP/MS  | 7.0    | ug/L  | 2    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Beryllium Total ICAP/MS                                       | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Cadmium Total ICAP/MS   | ND     | ug/L  | 0.5  | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Chromium Total ICAP/MS  | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Copper Total ICAP/MS  | ND     | ug/L  | 2    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Lead Total ICAP/MS  | ND     | ug/L  | 0.5  | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Manganese Total ICAP/MS                                       | 2.9    | ug/L  | 2    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Nickel Total ICAP/MS  | ND     | ug/L  | 5    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Selenium Total ICAP/MS  | ND     | ug/L  | 5    | 1        |
|          | 08/04/2011 | 18:37 | 612625     | (EPA 200.8)           | Silver Total ICAP/MS  | ND     | ug/L  | 0.5  | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Thallium Total ICAP/MS  | ND     | ug/L  | 1    | 1        |
|          | 08/01/2011 | 21:34 | 612023     | (EPA 200.8)           | Zinc Total ICAP/MS  | ND     | ug/L  | 20   | 1        |
|          |            | EPA   | 200.7 - 10 | CP Metals             |   |        |       |      |          |
|          | 07/27/2011 | 19:54 | 611365     | (EPA 200.7)           | Calcium Total ICAP  | 2,3    | mg/L  | 1    | 1        |
|          | 07/27/2011 | 19:54 | 611365     | (EPA 200.7)           | Iron Total ICAP   | 0.031  | mg/L  | 0.02 | 1        |
|          | 07/27/2011 | 19:54 | 611365     | (EPA 200.7)           | Magnesium Total ICAP  | 0.52   | mg/L  | 0.1  | 1        |
|          | 07/27/2011 | 19:54 | 611365     | (EPA 200.7)           | Potassium Total ICAP  | ND     | mg/L  | 1    | 1        |
|          | 07/27/2011 | 19:54 | 611365     | (EPA 200.7)           | Sodium Total ICAP   | 2.1    | mg/L  | 1    | 1        |
|          |            | EPA   | 300.0 - N  | itrate, Nitrite by El | PA 300.0  |        |       |      |          |
|          | 07/27/2011 | 19:02 | 611282     | (EPA 300.0)           | Nitrate as Nitrogen by IC                                     | ND     | mg/L  | 0.1  | 1        |
|          | 07/27/2011 | 19:02 | 611282     | (EPA 300.0)           | Nitrate as NO3 (calc)   | ND     | mg/L  | 0.44 | 1        |
|          | 07/27/2011 | 19:02 | 611282     | (EPA 300.0)           | Nitrite Nitrogen by IC  | ND     | mg/L  | 0.05 | 1        |
|          | 07/27/2011 | 19:02 | 611282     | (EPA 300.0)           | Total Nitrate, Nitrite-N, CALC                                | ND     | mg/L  | 0.1  | 1        |
|          |            | EPA   | 300.0 - C  | hloride, Sulfate by   | EPA 300.0   |        |       |      |          |
|          | 07/27/2011 | 19:02 | 611283     | (EPA 300.0)           | Chloride  | ND     | mg/L  | 1    | 1        |
|          | 07/27/2011 | 19:02 | 611283     | (EPA 300.0)           | Sulfate   | ND     | mg/L  | 0.5  | 1        |
|          |            | SM23  | 330B - Hy  | droxide as OH, Ca     | alculated   |        |       |      |          |
|          | 07/29/2011 | 12:23 |            | (SM2330B)             | Hydroxide as OH Calculated                                    | ND     | mg/L  | 2    | 1        |
|          |            |       | 500-CO2-   | D - Carbon Dioxid     | 1. Table 1. 20. 1. 2011 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 200    |       |      |          |
|          | 07/29/2011 | 12:23 |            | (SM4500-CO2-D)        | Carbon Dioxide,Free(25C)-Calc.                                | ND     | mg/L  | 2    | 1        |



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MWH Americas, Inc. Jamil Ibrahim 3321 Power Inn Road, Suite 300 Sacramento, CA 95826 Laboratory Data Report: 371500

| Prepared  | Analyz     | zed   | QC Ref#   | Method                  | Analyte                               | Result  | Units   | MRL  | Dilution |
|-----------|------------|-------|-----------|-------------------------|---------------------------------------|---------|---------|------|----------|
| -         | 07/31/2011 | 20:12 | 612027    | (SM 4500F-C)            | Fluoride                              | ND (BF) | mg/L    | 0.05 | 1        |
|           |            | SM23  | 30B - Ca  | rbonate as CO3, C       | alculated                             |         |         |      |          |
|           | 07/29/2011 | 12:23 |           | (SM2330B)               | Carbonate as CO3, Calculated          | ND      | mg/L    | 2    | 1        |
|           |            | SM 2  | 340B - To | otal Hardness as C      | aCO3 by ICP                           |         |         |      |          |
|           | 07/28/2011 | 10:49 |           | (SM 2340B)              | Total Hardness as CaCO3 by ICP (calc) | 7.8     | mg/L    | 3    | 1        |
|           |            | SM 2  | 320B - A  | Ikalinity in CaCO3      | units                                 |         |         |      |          |
|           | 07/28/2011 | 20:55 | 611706    | (SM 2320B)              | Alkalinity in CaCO3 units             | 10      | mg/L    | 2    | 1        |
|           |            | E160  | .1/SM254  | IOC - Total Dissolve    | ed Solids (TDS)                       |         |         |      |          |
| 7/28/2011 | 07/28/2011 | 23:24 | 611656    | (E160.1/SM2540C)        | Total Dissolved Solids (TDS)          | 34      | mg/L    | 10   | 1        |
|           |            | SM45  | 600-HB -  | PH (H3=past HT no       | ot compliant)                         |         |         |      |          |
|           | 07/28/2011 | 20:55 | 611722    | (SM4500-HB)             | PH (H3=past HT not compliant)         | 7.3     | Units   | 0.1  | 1        |
|           |            | SM 5  | 540C/EP   | A 425.1 - Surfactan     | ts                                    |         |         |      |          |
|           | 07/27/2011 | 15:17 | 611492    | (SM 5540C/EPA<br>425.1) | Surfactants                           | ND      | mg/L    | 0.05 | 1        |
|           |            | SM23  | 30B - Bi  | carb.Alkalinity as h    | ICO3,calc                             |         |         |      |          |
|           | 07/29/2011 | 12:23 |           | (SM2330B)               | Bicarb.Alkalinity as HCO3calc         | 13      | mg/L    | 2    | 1        |
|           |            | SM25  | 10B - Sp  | ecific Conductanc       | e                                     |         |         |      |          |
|           | 07/28/2011 | 20:55 | 611730    | (SM2510B)               | Specific Conductance, 25 C            | 25      | umho/cm | 2    | 1        |



Laboratory

QC Summary: 371500

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MWH Americas, Inc.

QC Ref # 611282 - Nitrate, Nitrite by EPA 300.0

201107270179 SJR near Auberry

201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611283 - Chloride, Sulfate by EPA 300.0

201107270179 SJR near Auberry

201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611365 - ICP Metals

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611472 - Nitrate, Nitrite by EPA 300.0

201107270178 SJR below Kerckhoff Powerhouse #2 201107270180 Millerton Lake @ Temperance Flat

QC Ref # 611479 - Chloride, Sulfate by EPA 300.0

201107270178 SJR below Kerckhoff Powerhouse #2 201107270180 Millerton Lake @ Temperance Flat

QC Ref # 611492 - Surfactants

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611526 - ICPMS Metals

201107270180 Millerton Lake @ Temperance Flat

QC Ref # 611533 - Alkalinity in CaCO3 units

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

QC Ref # 611642 - ICPMS Metals

201107270180 Millerton Lake @ Temperance Flat

QC Ref # 611656 - Total Dissolved Solids (TDS)

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611706 - Alkalinity in CaCO3 units

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611715 - PH (H3=past HT not compliant)

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

Analysis Date: 07/27/2011

Analyzed by: SXK Analyzed by: SXK

Analysis Date: 07/27/2011

Analyzed by: SXK Analyzed by: SXK

Analysis Date: 07/27/2011

Analyzed by: NINA Analyzed by: NINA Analyzed by: NINA

Analysis Date: 07/27/2011

Analyzed by: SXK Analyzed by: SXK

Analysis Date: 07/27/2011

Analyzed by: SXK Analyzed by: SXK

Analysis Date: 07/27/2011

Analyzed by: QMK Analyzed by: QMK Analyzed by: QMK Analyzed by: QMK

Analysis Date: 07/28/2011

Analyzed by: VXT

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP

Analysis Date: 07/29/2011

Analyzed by: DYH

Analysis Date: 07/28/2011

Analyzed by: JRF Analyzed by: JRF Analyzed by: JRF Analyzed by: JRF

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP



Laboratory

QC Summary: 371500

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(continued)

QC Ref # 611722 - PH (H3=past HT not compliant)

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611727 - Specific Conductance

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

QC Ref # 611730 - Specific Conductance

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 611783 - Fluoride

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

QC Ref # 611840 - ICP Metals

201107270180 Millerton Lake @ Temperance Flat

QC Ref # 612022 - ICPMS Metals

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

QC Ref # 612023 - ICPMS Metals

201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 612027 - Fluoride

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 612625 - ICPMS Metals

201107270178 SJR below Kerckhoff Powerhouse #2

201107270179 SJR near Auberry

201107270180 Millerton Lake @ Temperance Flat 201107270181 Millerton Lake @ Fine Gold Bay

QC Ref # 612632 - ICPMS Metals

201107270180 Millerton Lake @ Temperance Flat

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP

Analysis Date: 07/28/2011

Analyzed by: CYP Analyzed by: CYP

Analysis Date: 07/31/2011

Analyzed by: MXT Analyzed by: MXT

Analysis Date: 07/29/2011

Analyzed by: NINA

Analysis Date: 08/01/2011

Analyzed by: DYH Analyzed by: DYH

Analysis Date: 08/01/2011

Analyzed by: DYH

Analysis Date: 07/31/2011

Analyzed by: MXT Analyzed by: MXT

Analysis Date: 08/04/2011

Analyzed by: VXT Analyzed by: VXT Analyzed by: VXT Analyzed by: VXT

Analysis Date: 08/04/2011

Analyzed by: VXT

Laboratory QC Report: 371500

Analysis Date: 07/27/2011

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MWH Americas, Inc.

| QC Type               | Analyte                           | Native   | Spiked | Recovered | Units | Yield (%)  | Limits (%)   | RPDLimit<br>(%) | RPD% |
|-----------------------|-----------------------------------|----------|--------|-----------|-------|------------|--------------|-----------------|------|
| QC Ref# 611282 - Nitr | ate, Nitrite by EPA 300.0 by EPA  | 300.0    |        |           | А     | nalysis Da | ate: 07/27/2 | 011             |      |
| LCS1                  | Nitrate as Nitrogen by IC         |          | 2.5    | 2.45      | mg/L  | 98         | (90-110)     |                 |      |
| LCS2                  | Nitrate as Nitrogen by IC         |          | 2.5    | 2.47      | mg/L  | 99         | (90-110)     | 20              | 0.8  |
| MBLK                  | Nitrate as Nitrogen by IC         |          |        | <0.10     | mg/L  |            | 917 (716)    |                 |      |
| MRL_CHK               | Nitrate as Nitrogen by IC         |          | 0.05   | 0.0501    | mg/L  | 100        | (50-150)     |                 |      |
| MS_201107270532       | Nitrate as Nitrogen by IC         | 1.1      | 1.3    | 7.66      | mg/L  | 104        | (80-120)     |                 |      |
| MS_201107270682       | Nitrate as Nitrogen by IC         | 7.2      | 1.3    | 13.7      | mg/L  | 105        | (80-120)     |                 |      |
| MSD_201107270532      | Nitrate as Nitrogen by IC         | 1.1      | 1.3    | 7.66      | mg/L  | 104        | (80-120)     | 20              | 0.0  |
| MSD_201107270682      | Nitrate as Nitrogen by IC         | 7.2      | 1.3    | 13.7      | mg/L  | 105        | (80-120)     | 20              | 0.0  |
| LCS1                  | Nitrite Nitrogen by IC            |          | 1.0    | 0.952     | mg/L  | 95         | (90-110)     |                 |      |
| LCS2                  | Nitrite Nitrogen by IC            |          | 1.0    | 0.958     | mg/L  | 96         | (90-110)     | 20              | 0.63 |
| MBLK                  | Nitrite Nitrogen by IC            |          |        | <0.10     | mg/L  |            |              |                 |      |
| MRL_CHK               | Nitrite Nitrogen by IC            |          | 0.05   | 0.0493    | mg/L  | 99         | (50-150)     |                 |      |
| MS_201107270532       | Nitrite Nitrogen by IC            | ND       | 0.5    | 2.28      | mg/L  | 91         | (80-120)     |                 |      |
| MS_201107270682       | Nitrite Nitrogen by IC            | ND       | 0.5    | 2.35      | mg/L  | 94         | (80-120)     |                 |      |
| MSD_201107270532      | Nitrite Nitrogen by IC            | ND       | 0.5    | 2.33      | mg/L  | 93         | (80-120)     | 20              | 1.8  |
| MSD_201107270682      | Nitrite Nitrogen by IC            | ND       | 0.5    | 2.33      | mg/L  | 93         | (80-120)     | 20              | 0.86 |
| QC Ref# 611283 - Chl  | oride, Sulfate by EPA 300.0 by EF | PA 300.0 |        |           | Α     | nalysis Da | ate: 07/27/2 | 011             |      |
| LCS1                  | Chloride                          |          | 25     | 25.8      | mg/L  | 103        | (90-110)     |                 |      |
| LCS2                  | Chloride                          |          | 25     | 25.9      | mg/L  | 103        | (90-110)     | 20              | 0.39 |
| MBLK                  | Chloride                          |          |        | <0.5      | mg/L  |            | ,            |                 |      |
| MRL CHK               | Chloride                          |          | 0.5    | 0.423     | mg/L  | 85         | (50-150)     |                 |      |
| MS 201107270532       | Chloride                          | 150      | 13     | 223       | mg/L  | 109        | (80-120)     |                 |      |
| MS 201107270682       | Chloride                          | 120      | 13     | 189       | mg/L  | 105        | (80-120)     |                 |      |
| MSD 201107270532      | Chloride                          | 150      | 13     | 226       | mg/L  | 114        | (80-120)     | 20              | 4.5  |
| MSD_201107270682      | Chloride                          | 120      | 13     | 189       | mg/L  | 106        | (80-120)     | 20              | 0.9  |
| LCS1                  | Sulfate                           |          | 50     | 50.9      | mg/L  | 102        | (90-110)     |                 |      |
| LCS2                  | Sulfate                           |          | 50     | 51.3      | mg/L  | 103        | (90-110)     | 20              | 0.78 |
| MBLK                  | Sulfate                           |          |        | <0.25     | mg/L  |            | 471 1724     |                 |      |
| MRL_CHK               | Sulfate                           |          | 1.0    | 0.950     | mg/L  | 95         | (50-150)     |                 |      |
| MRLLW                 | Sulfate                           |          | 0.25   | 0.276     | mg/L  | 110        | (50-150)     |                 |      |
| MS_201107270532       | Sulfate                           | 200      | 25     | 342       | mg/L  | 111        | (80-120)     |                 |      |
| MS_201107270682       | Sulfate                           | 99       | 25     | 232       | mg/L  | 107        | (80-120)     |                 |      |
| MSD_201107270532      | Sulfate                           | 200      | 25     | 347       | mg/L  | 115        | (80-120)     | 20              | 3.5  |
| MSD_201107270682      | Sulfate                           | 99       | 25     | 232       | mg/L  | 107        | (80-120)     | 20              | 0.0  |

QC Ref# 611365 - ICP Metals by EPA 200.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>21/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| QC Type           | Analyte              | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit<br>(%) | RPD% |
|-------------------|----------------------|--------|--------|-----------|-------|-----------|------------|-----------------|------|
| LCS1              | Calcium Total ICAP   |        | 50     | 51.3      | mg/L  | 103       | (85-115)   |                 | _    |
| LCS2              | Calcium Total ICAP   |        | 50     | 51.4      | mg/L  | 103       | (85-115)   | 20              | 0.20 |
| MBLK              | Calcium Total ICAP   |        |        | <1        | mg/L  |           |            |                 |      |
| MRL_CHK           | Calcium Total ICAP   |        | 1.0    | 1.06      | mg/L  | 106       | (50-150)   |                 |      |
| MS_201107260192   | Calcium Total ICAP   | 44     | 50     | 94.6      | mg/L  | 102       | (70-130)   |                 |      |
| MS2_201107260327  | Calcium Total ICAP   | 84     | 50     | 130       | mg/L  | 93        | (70-130)   |                 |      |
| MSD_201107260192  | Calcium Total ICAP   | 44     | 50     | 88.7      | mg/L  | 90        | (70-130)   | 20              | 12   |
| MSD2_201107260327 | Calcium Total ICAP   | 84     | 50     | 127       | mg/L  | 86        | (70-130)   | 20              | 8.2  |
| LCS1              | Iron Total ICAP      |        | 5.0    | 5.13      | mg/L  | 103       | (85-115)   |                 |      |
| LCS2              | Iron Total ICAP      |        | 5.0    | 5.13      | mg/L  | 103       | (85-115)   | 20              | 0.0  |
| MBLK              | Iron Total ICAP      |        |        | < 0.02    | mg/L  |           |            |                 |      |
| MRL_CHK           | Iron Total ICAP      |        | 0.02   | 0.0226    | mg/L  | 113       | (50-150)   |                 |      |
| MS_201107260192   | Iron Total ICAP      | ND     | 5.0    | 5.02      | mg/L  | 100       | (70-130)   |                 |      |
| MS2_201107260327  | Iron Total ICAP      | ND     | 5.0    | 4.85      | mg/L  | 97        | (70-130)   |                 |      |
| MSD_201107260192  | Iron Total ICAP      | ND     | 5.0    | 4.74      | mg/L  | 95        | (70-130)   | 20              | 5.5  |
| MSD2_201107260327 | Iron Total ICAP      | ND     | 5.0    | 4.74      | mg/L  | 95        | (70-130)   | 20              | 2.3  |
| LCS1              | Magnesium Total ICAP |        | 20     | 20.3      | mg/L  | 101       | (85-115)   |                 |      |
| LCS2              | Magnesium Total ICAP |        | 20     | 20.4      | mg/L  | 102       | (85-115)   | 20              | 0.4  |
| MBLK              | Magnesium Total ICAP |        |        | <0.1      | mg/L  |           |            |                 |      |
| MRL_CHK           | Magnesium Total ICAP |        | 0.1    | 0.109     | mg/L  | 109       | (50-150)   |                 |      |
| MS_201107260192   | Magnesium Total ICAP | 8.6    | 20     | 29.0      | mg/L  | 102       | (70-130)   |                 |      |
| MS2_201107260327  | Magnesium Total ICAP | 24     | 20     | 42.9      | mg/L  | 95        | (70-130)   |                 |      |
| MSD_201107260192  | Magnesium Total ICAP | 8.6    | 20     | 27.4      | mg/L  | 94        | (70-130)   | 20              | 8.1  |
| MSD2_201107260327 | Magnesium Total ICAP | 24     | 20     | 41.7      | mg/L  | 89        | (70-130)   | 20              | 6.4  |
| LCS1              | Potassium Total ICAP |        | 20     | 19.4      | mg/L  | 97        | (85-115)   |                 |      |
| LCS2              | Potassium Total ICAP |        | 20     | 19.4      | mg/L  | 97        | (85-115)   | 20              | 0.0  |
| MBLK              | Potassium Total ICAP |        |        | <1        | mg/L  |           |            |                 |      |
| MRL_CHK           | Potassium Total ICAP |        | 1.0    | 1.02      | mg/L  | 102       | (50-150)   |                 |      |
| MS_201107260192   | Potassium Total ICAP | 4.6    | 20     | 24.4      | mg/L  | 99        | (70-130)   |                 |      |
| MS2_201107260327  | Potassium Total ICAP | 3.6    | 20     | 22.6      | mg/L  | 95        | (70-130)   |                 |      |
| MSD_201107260192  | Potassium Total ICAP | 4.6    | 20     | 23.3      | mg/L  | 93        | (70-130)   | 20              | 5.9  |
| MSD2_201107260327 | Potassium Total ICAP | 3.6    | 20     | 22.3      | mg/L  | 94        | (70-130)   | 20              | 1.8  |
| LCS1              | Sodium Total ICAP    |        | 50     | 47.9      | mg/L  | 96        | (85-115)   |                 |      |
| LCS2              | Sodium Total ICAP    |        | 50     | 48.3      | mg/L  | 97        | (85-115)   | 20              | 0.8  |
| MBLK              | Sodium Total ICAP    |        |        | <1        | mg/L  |           |            |                 |      |
| MRL_CHK           | Sodium Total ICAP    |        | 1.0    | 1.06      | mg/L  | 106       | (50-150)   |                 |      |
| MS 201107260192   | Sodium Total ICAP    | 37     | 50     | 85.7      | mg/L  | 98        | (70-130)   |                 |      |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>22/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| QC Type               | Analyte                               | Native | Spiked | Recovered | Units | Yield (%)  | Limits (%)    | RPDLimit<br>(%) | RPD% |
|-----------------------|---------------------------------------|--------|--------|-----------|-------|------------|---------------|-----------------|------|
| MS2_201107260327      | Sodium Total ICAP                     | 51     | 50     | 96.9      | mg/L  | 93         | (70-130)      | -7.             | _    |
| MSD_201107260192      | Sodium Total ICAP                     | 37     | 50     | 81.4      | mg/L  | 90         | (70-130)      | 20              | 9.2  |
| MSD2_201107260327     | Sodium Total ICAP                     | 51     | 50     | 94.1      | mg/L  | 87         | (70-130)      | 20              | 6.4  |
| QC Ref# 611472 - Nitr | ate, Nitrite by EPA 300.0 by EPA 300. | 0      |        |           | A     | nalysis Da | ate: 07/27/20 | 11              |      |
| LCS1                  | Nitrate as Nitrogen by IC             |        | 2.5    | 2.45      | mg/L  | 98         | (90-110)      |                 |      |
| LCS2                  | Nitrate as Nitrogen by IC             |        | 2.5    | 2.46      | mg/L  | 98         | (90-110)      | 20              | 0.41 |
| MBLK                  | Nitrate as Nitrogen by IC             |        |        | <0.10     | mg/L  |            | A. 22.        |                 |      |
| MRL_CHK               | Nitrate as Nitrogen by IC             |        | 0.05   | 0.0513    | mg/L  | 103        | (50-150)      |                 |      |
| MS_201107270068       | Nitrate as Nitrogen by IC             | ND     | 1.3    | 1.39      | mg/L  | 104        | (80-120)      |                 |      |
| MS_201107270264       | Nitrate as Nitrogen by IC             | 7.8    | 1.3    | 10.3      | mg/L  | 103        | (80-120)      |                 |      |
| MSD_201107270068      | Nitrate as Nitrogen by IC             | ND     | 1.3    | 1.39      | mg/L  | 104        | (80-120)      | 20              | 0.0  |
| MSD_201107270264      | Nitrate as Nitrogen by IC             | 7.8    | 1.3    | 10.5      | mg/L  | 109        | (80-120)      | 20              | 5.7  |
| LCS1                  | Nitrite Nitrogen by IC                |        | 1.0    | 0.950     | mg/L  | 95         | (90-110)      |                 |      |
| LCS2                  | Nitrite Nitrogen by IC                |        | 1.0    | 0.950     | mg/L  | 95         | (90-110)      | 20              | 0.0  |
| MBLK                  | Nitrite Nitrogen by IC                |        |        | < 0.10    | mg/L  |            |               |                 |      |
| MRL_CHK               | Nitrite Nitrogen by IC                |        | 0.05   | 0.0461    | mg/L  | 92         | (50-150)      |                 |      |
| MS_201107270068       | Nitrite Nitrogen by IC                | ND     | 0.5    | 0.506     | mg/L  | 101        | (80-120)      |                 |      |
| MS_201107270264       | Nitrite Nitrogen by IC                | ND     | 0.5    | 0.973     | mg/L  | 97         | (80-120)      |                 |      |
| MSD_201107270068      | Nitrite Nitrogen by IC                | ND     | 0.5    | 0.505     | mg/L  | 101        | (80-120)      | 20              | 0.0  |
| MSD_201107270264      | Nitrite Nitrogen by IC                | ND     | 0.5    | 0.960     | mg/L  | 96         | (80-120)      | 20              | 1.4  |
| QC Ref# 611479 - Chl  | oride, Sulfate by EPA 300.0 by EPA 3  | 00.0   |        |           | A     | nalysis Da | ate: 07/27/20 | 011             |      |
| LCS1                  | Chloride                              |        | 25     | 25.8      | mg/L  | 103        | (90-110)      |                 |      |
| LCS2                  | Chloride                              |        | 25     | 25.8      | mg/L  | 103        | (90-110)      | 20              | 0.0  |
| MBLK                  | Chloride                              |        |        | <0.5      | mg/L  |            | The court     |                 |      |
| MRL_CHK               | Chloride                              |        | 0.5    | 0.424     | mg/L  | 85         | (50-150)      |                 |      |
| MS_201107270068       | Chloride                              | 5.2    | 13     | 19.3      | mg/L  | 113        | (80-120)      |                 |      |
| MS_201107280114       | Chloride                              | 28     | 13     | 55.8      | mg/L  | 112        | (80-120)      |                 |      |
| MSD_201107270068      | Chloride                              | 5.2    | 13     | 19.5      | mg/L  | 115        | (80-120)      | 20              | 1.8  |
| MSD_201107280114      | Chloride                              | 28     | 13     | 55.9      | mg/L  | 113        | (80-120)      | 20              | 0.89 |
| LCS1                  | Sulfate                               |        | 50     | 50.9      | mg/L  | 102        | (90-110)      |                 |      |
| LCS2                  | Sulfate                               |        | 50     | 51.0      | mg/L  | 102        | (90-110)      | 20              | 0.20 |
| MBLK                  | Sulfate                               |        |        | < 0.25    | mg/L  |            |               |                 |      |
| MRL_CHK               | Sulfate                               |        | 1.0    | 0.954     | mg/L  | 95         | (50-150)      |                 |      |
| MRLLW                 | Sulfate                               |        | 0.25   | 0.287     | mg/L  | 115        | (50-150)      |                 |      |
| MS_201107270068       | Sulfate                               | 6.6    | 25     | 33.9      | mg/L  | 109        | (80-120)      |                 |      |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>23/53</sup> (I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| QC Type              | Analyte                        | Native | Spiked | Recovered | Units | Yield (%)  | Limits (%)    | RPDLimit<br>(%) | RPD% |
|----------------------|--------------------------------|--------|--------|-----------|-------|------------|---------------|-----------------|------|
| MS_201107280114      | Sulfate                        | 58     | 25     | 113       | mg/L  | 110        | (80-120)      | -7              | _    |
| MSD_201107270068     | Sulfate                        | 6.6    | 25     | 34.2      | mg/L  | 110        | (80-120)      | 20              | 0.91 |
| MSD_201107280114     | Sulfate                        | 58     | 25     | 113       | mg/L  | 111        | (80-120)      | 20              | 0.91 |
| QC Ref# 611492 - Sur | factants by SM 5540C/EPA 425.1 |        |        |           | A     | nalysis Da | te: 07/27/20  | 11              |      |
| LCS1                 | Surfactants                    |        | 0.2    | 0.192     | mg/L  | 96         | (90-110)      |                 |      |
| LCS2                 | Surfactants                    |        | 0.2    | 0.188     | mg/L  | 94         | (90-110)      | 20              | 2.1  |
| MBLK                 | Surfactants                    |        |        | < 0.05    | mg/L  |            |               |                 |      |
| MRL_CHK              | Surfactants                    |        | 0.05   | 0.0600    | mg/L  | 120        | (50-150)      |                 |      |
| MS_201107270178      | Surfactants                    | ND     | 0.2    | 0.206     | mg/L  | 96         | (80-120)      |                 |      |
| MSD_201107270178     | Surfactants                    | ND     | 0.2    | 0.214     | mg/L  | 100        | (80-120)      | 20              | 4.5  |
| QC Ref# 611526 - ICP | MS Metals by EPA 200.8         |        |        |           | A     | nalysis Da | ite: 07/28/20 | 11              |      |
| LCS1                 | Aluminum Total ICAP/MS         |        | 200    | 181       | ug/L  | 91         | (85-115)      |                 |      |
| LCS2                 | Aluminum Total ICAP/MS         |        | 200    | 181       | ug/L  | 91         | (85-115)      | 20              | 0.0  |
| MBLK                 | Aluminum Total ICAP/MS         |        |        | <20       | ug/L  |            | (2.7.1.4)     |                 |      |
| MRL_CHK              | Aluminum Total ICAP/MS         |        | 20     | 19.3      | ug/L  | 96         | (50-150)      |                 |      |
| LCS1                 | Antimony Total ICAP/MS         |        | 50     | 48.8      | ug/L  | 98         | (85-115)      |                 |      |
| LCS2                 | Antimony Total ICAP/MS         |        | 50     | 48.8      | ug/L  | 98         | (85-115)      | 20              | 0.0  |
| MBLK                 | Antimony Total ICAP/MS         |        |        | <1        | ug/L  |            |               |                 |      |
| MRL_CHK              | Antimony Total ICAP/MS         |        | 1.0    | 1.04      | ug/L  | 104        | (50-150)      |                 |      |
| MS_201107270067      | Antimony Total ICAP/MS         | ND     | 50     | 47.3      | ug/L  | 93         | (70-130)      |                 |      |
| MS2_201107270068     | Antimony Total ICAP/MS         | ND     | 50     | 46.9      | ug/L  | 93         | (70-130)      |                 |      |
| MSD_201107270067     | Antimony Total ICAP/MS         | ND     | 50     | 47.5      | ug/L  | 93         | (70-130)      | 20              | 0.43 |
| MSD2_201107270068    | Antimony Total ICAP/MS         | ND     | 50     | 47.0      | ug/L  | 93         | (70-130)      | 20              | 0.22 |
| LCS1                 | Arsenic Total ICAP/MS          |        | 20     | 19.4      | ug/L  | 97         | (85-115)      |                 |      |
| LCS2                 | Arsenic Total ICAP/MS          |        | 20     | 19.5      | ug/L  | 98         | (85-115)      | 20              | 0.51 |
| MBLK                 | Arsenic Total ICAP/MS          |        |        | <1        | ug/L  |            |               |                 |      |
| MRL_CHK              | Arsenic Total ICAP/MS          |        | 1.0    | 0.822     | ug/L  | 82         | (50-150)      |                 |      |
| MS_201107270067      | Arsenic Total ICAP/MS          | 1.7    | 20     | 22.2      | ug/L  | 103        | (70-130)      |                 |      |
| MS2_201107270068     | Arsenic Total ICAP/MS          | 1.7    | 20     | 22.1      | ug/L  | 102        | (70-130)      |                 |      |
| MSD_201107270067     | Arsenic Total ICAP/MS          | 1.7    | 20     | 22.8      | ug/L  | 105        | (70-130)      | 20              | 1.9  |
| MSD2_201107270068    | Arsenic Total ICAP/MS          | 1.7    | 20     | 22.1      | ug/L  | 102        | (70-130)      | 20              | 0.0  |
| LCS1                 | Barium Total ICAP/MS           |        | 100    | 96.8      | ug/L  | 97         | (85-115)      |                 |      |
| LCS2                 | Barium Total ICAP/MS           |        | 100    | 94.9      | ug/L  | 95         | (85-115)      | 20              | 2.0  |
| MBLK                 | Barium Total ICAP/MS           |        |        | <2        | ug/L  |            |               |                 |      |
| MRL_CHK              | Barium Total ICAP/MS           |        | 2.0    | 2.01      | ug/L  | 101        | (50-150)      |                 |      |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method. (S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>24/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| С Туре            | Analyte                 | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit<br>(%) | RPD% |
|-------------------|-------------------------|--------|--------|-----------|-------|-----------|------------|-----------------|------|
| MS_201107270067   | Barium Total ICAP/MS    | 28     | 100    | 127       | ug/L  | 99        | (70-130)   |                 |      |
| MS2_201107270068  | Barium Total ICAP/MS    | 27     | 100    | 123       | ug/L  | 96        | (70-130)   |                 |      |
| MSD_201107270067  | Barium Total ICAP/MS    | 28     | 100    | 127       | ug/L  | 99        | (70-130)   | 20              | 0.10 |
| MSD2_201107270068 | Barium Total ICAP/MS    | 27     | 100    | 125       | ug/L  | 98        | (70-130)   | 20              | 1.3  |
| LCS1              | Beryllium Total ICAP/MS |        | 5.0    | 5.02      | ug/L  | 100       | (85-115)   |                 |      |
| LCS2              | Beryllium Total ICAP/MS |        | 5.0    | 4.88      | ug/L  | 98        | (85-115)   | 20              | 2.8  |
| MBLK              | Beryllium Total ICAP/MS |        |        | <1        | ug/L  |           |            |                 |      |
| MRL_CHK           | Beryllium Total ICAP/MS |        | 1.0    | 1.03      | ug/L  | 103       | (50-150)   |                 |      |
| MS_201107270067   | Beryllium Total ICAP/MS | ND     | 5.0    | 5.06      | ug/L  | 101       | (70-130)   |                 |      |
| MS2_201107270068  | Beryllium Total ICAP/MS | ND     | 5.0    | 4.75      | ug/L  | 95        | (70-130)   |                 |      |
| MSD_201107270067  | Beryllium Total ICAP/MS | ND     | 5.0    | 5.07      | ug/L  | 101       | (70-130)   | 20              | 0.0  |
| MSD2_201107270068 | Beryllium Total ICAP/MS | ND     | 5.0    | 4.85      | ug/L  | 97        | (70-130)   | 20              | 2.1  |
| LCS1              | Cadmium Total ICAP/MS   |        | 20     | 20.7      | ug/L  | 103       | (85-115)   |                 |      |
| LCS2              | Cadmium Total ICAP/MS   |        | 20     | 20.4      | ug/L  | 102       | (85-115)   | 20              | 1.5  |
| MBLK              | Cadmium Total ICAP/MS   |        |        | <0.5      | ug/L  |           |            |                 |      |
| MRL_CHK           | Cadmium Total ICAP/MS   |        | 0.5    | 0.529     | ug/L  | 106       | (50-150)   |                 |      |
| MS_201107270067   | Cadmium Total ICAP/MS   | ND     | 20     | 20.9      | ug/L  | 104       | (70-130)   |                 |      |
| MS2_201107270068  | Cadmium Total ICAP/MS   | ND     | 20     | 20.4      | ug/L  | 102       | (70-130)   |                 |      |
| MSD_201107270067  | Cadmium Total ICAP/MS   | ND     | 20     | 20.9      | ug/L  | 104       | (70-130)   | 20              | 0.0  |
| MSD2_201107270068 | Cadmium Total ICAP/MS   | ND     | 20     | 20.7      | ug/L  | 103       | (70-130)   | 20              | 0.9  |
| LCS1              | Chromium Total ICAP/MS  |        | 100    | 97.4      | ug/L  | 97        | (85-115)   |                 |      |
| LCS2              | Chromium Total ICAP/MS  |        | 100    | 96.7      | ug/L  | 97        | (85-115)   | 20              | 0.7  |
| MBLK              | Chromium Total ICAP/MS  |        |        | <1        | ug/L  |           |            |                 |      |
| MRL_CHK           | Chromium Total ICAP/MS  |        | 1.0    | 1.11      | ug/L  | 111       | (50-150)   |                 |      |
| MS_201107270067   | Chromium Total ICAP/MS  | 1.7    | 100    | 101       | ug/L  | 99        | (70-130)   |                 |      |
| MS2_201107270068  | Chromium Total ICAP/MS  | 1.2    | 100    | 99.7      | ug/L  | 99        | (70-130)   |                 |      |
| MSD_201107270067  | Chromium Total ICAP/MS  | 1.7    | 100    | 101       | ug/L  | 99        | (70-130)   | 20              | 0.6  |
| MSD2_201107270068 | Chromium Total ICAP/MS  | 1.2    | 100    | 99.9      | ug/L  | 99        | (70-130)   | 20              | 0.2  |
| LCS1              | Copper Total ICAP/MS    |        | 100    | 101       | ug/L  | 101       | (85-115)   |                 |      |
| LCS2              | Copper Total ICAP/MS    |        | 100    | 99.1      | ug/L  | 99        | (85-115)   | 20              | 1.9  |
| MBLK              | Copper Total ICAP/MS    |        |        | <2        | ug/L  |           |            |                 |      |
| MRL_CHK           | Copper Total ICAP/MS    |        | 2.0    | 2.03      | ug/L  | 102       | (50-150)   |                 |      |
| MS_201107270067   | Copper Total ICAP/MS    | 2.6    | 100    | 100       | ug/L  | 98        | (70-130)   |                 |      |
| MS2_201107270068  | Copper Total ICAP/MS    | 2.3    | 100    | 99.9      | ug/L  | 98        | (70-130)   |                 |      |
| MSD_201107270067  | Copper Total ICAP/MS    | 2.6    | 100    | 102       | ug/L  | 99        | (70-130)   | 20              | 1.2  |
| MSD2_201107270068 | Copper Total ICAP/MS    | 2.3    | 100    | 99.2      | ug/L  | 97        | (70-130)   | 20              | 0.73 |
| LCS1              | Lead Total ICAP/MS      |        | 20     | 19.6      | ug/L  | 98        | (85-115)   |                 |      |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>25/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

LCS2

MBLK

LCS1

LCS2

MBLK

MRL\_CHK

MRL CHK

MS 201107270067

MS2\_201107270068

MSD 201107270067

MSD2\_201107270068

MSD2 201107270068

MS2 201107270068

**RPDLimit** RPD% QC Type Analyte Native Spiked Recovered Units Yield (%) Limits (%) (%) LCS2 Lead Total ICAP/MS 20 19.4 ug/L 97 20 (85-115)1.0 MBLK Lead Total ICAP/MS < 0.5 ug/L Lead Total ICAP/MS ug/L MRL CHK 0.5 0.532 106 (50-150)MS 201107270067 Lead Total ICAP/MS 20 ND 20.1 ug/L 99 (70 - 130)MS2\_201107270068 Lead Total ICAP/MS ND 20 20.2 ug/L 100 (70 - 130)20 MSD\_201107270067 Lead Total ICAP/MS ND 20.6 ug/L 101 (70 - 130)20 2.3 MSD2\_201107270068 Lead Total ICAP/MS ND 20 20.1 ug/L 99 (70 - 130)20 0.50 LCS1 50 Manganese Total ICAP/MS 49.5 ug/L 99 (85-115)LCS2 50 Manganese Total ICAP/MS 49.3 99 ug/L (85-115)20 0.41 MBLK Manganese Total ICAP/MS <2 ug/L MRL\_CHK Manganese Total ICAP/MS 2.0 2.09 ug/L 104 (50-150)MS 201107270067 Manganese Total ICAP/MS 36 50 87.4 ug/L 102 (70 - 130)MS2\_201107270068 Manganese Total ICAP/MS 30 50 81.6 103 ug/L (70 - 130)50 MSD\_201107270067 Manganese Total ICAP/MS 36 86.3 ug/L 100 20 2.0 (70 - 130)30 50 MSD2\_201107270068 Manganese Total ICAP/MS 81.8 ug/L 103 (70 - 130)20 0.0 50 LCS1 Nickel Total ICAP/MS 49.2 ug/L 98 (85-115)LCS2 Nickel Total ICAP/MS 50 49.0 ug/L 98 (85-115)20 0.41 MBLK Nickel Total ICAP/MS <5 ug/L 5.0 MRL\_CHK Nickel Total ICAP/MS 5.13 ug/L 103 (50-150)MS\_201107270067 Nickel Total ICAP/MS ND 50 52.2 ug/L 99 (70 - 130)MS2 201107270068 Nickel Total ICAP/MS ND 50 51.7 ug/L 99 (70 - 130)MSD 201107270067 Nickel Total ICAP/MS ND 50 52.2 ug/L 99 20 (70 - 130)0.0 MSD2\_201107270068 Nickel Total ICAP/MS ND 50 51.0 ug/L 98 (70 - 130)20 1.3 LCS1 Selenium Total ICAP/MS 20 19.8 ug/L 99 (85-115)

Laboratory

QC Report: 371500

Selenium Total ICAP/MS

Silver Total ICAP/MS

Silver Total ICAP/MS

Thallium Total ICAP/MS

Thallium Total ICAP/MS

Thallium Total ICAP/MS

Thallium Total ICAP/MS

20

5.0

20

20

20

20

50

50

20

20

1.0

ND

ND

ND

ND

20.2

<5

5.54

23.1

21.6

20.7

20.3

47.7

47.7

19.3

19.5

1.01

<1

ug/L

ua/L

ug/L

101

111

114

106

102

99

95

96

97

97

101

(85-115)

(50-150)

(70 - 130)

(70 - 130)

(70 - 130)

(70 - 130)

(70 - 130)

(70 - 130)

(85-115)

(85-115)

(50-150)

20

20

20

20

20

2.0

11

6.4

0.11

1.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

Indicates internal standard compound.

<sup>26/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used



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MWH Americas, Inc. (continued)

| LCS1 Zinc Total ICAP/MS 100 108 ug/L 108 (85-115)  LCS2 Zinc Total ICAP/MS 100 103 ug/L 103 (85-115) 20 4.7  MRL_CHK Zinc Total ICAP/MS 20 21.0 ug/L 105 (50-150)  MS_201107270067 Zinc Total ICAP/MS 100 108 ug/L 108 (70-130)  MS2_201107270068 Zinc Total ICAP/MS 100 107 ug/L 107 (70-130)  MSD_201107270067 Zinc Total ICAP/MS 100 108 ug/L 108 (70-130) 20 0.0  MSD_201107270068 Zinc Total ICAP/MS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270068 Zinc Total ICAP/MS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270068 Zinc Total ICAP/MS 100 107 ug/L 107 (70-130) 20 0.0  QC Ref# 611533 - Alkalinity in CaCO3 units by SM 2320B  LCS1 Alkalinity in CaCO3 units 100 96.8 mg/L 97 (90-110)   | QC Type               | Analyte                              | Native  | Spiked | Recovered | Units | Yield (%)  | Limits (%)    | RPDLimit<br>(%) | RPD% |
|--|-----------------------|--------------------------------------|---------|--------|-----------|-------|------------|---------------|-----------------|------|
| MSD_201107270667   Thallium Total ICAP/MS   ND   20   20.2   ug/L   101   (70-130)   20   2.3     MSD_201107270687   Thallium Total ICAP/MS   ND   20   19.8   ug/L   108   (95-115)   20   0.98     LCS1   Zinc Total ICAP/MS   100   103   ug/L   103   (95-115)   20   4.7     MRL_CHIK   Zinc Total ICAP/MS   20   21.0   ug/L   105   (95-115)   20   4.7     MRL_CHIK   Zinc Total ICAP/MS   20   21.0   ug/L   105   (95-115)   20   4.7     MRL_CHIK   Zinc Total ICAP/MS   20   21.0   ug/L   108   (70-130)   20   0.0     MSD_201107270067   Zinc Total ICAP/MS   100   107   ug/L   107   (70-130)   20   0.0     MSD_201107270068   Zinc Total ICAP/MS   100   107   ug/L   107   (70-130)   20   0.0     MSD_201107270068   Zinc Total ICAP/MS   100   107   ug/L   107   (70-130)   20   0.0     MSD_201107270068   Zinc Total ICAP/MS   100   107   ug/L   107   (70-130)   20   0.0     MSD_201107270068   Zinc Total ICAP/MS   100   107   ug/L   107   (70-130)   20   0.0     MSD_201107270068   Zinc Total ICAP/MS   100   96.8   mg/L   97   (90-110)   20   0.0     MSD_201107270068   Alkalinity in CaCO3 units   100   96.8   mg/L   97   (90-110)   20   0.85     MBLK   Alkalinity in CaCO3 units   20   2.19   mg/L   110   (50-150)   20   0.85     MSD_201107270143   Alkalinity in CaCO3 units   20   2.19   mg/L   110   (50-150)   20   2.5     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   95   (80-120)   20   2.5     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   101   (80-120)   20   2.5     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   105   (85-115)   20   2.5     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   105   (85-115)   20   3.4     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   105   (85-115)   20   3.4     MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   105   (85-115)   20   3.4     MSD_201107270080   Alkalinity in CaCO3 units   80   200   209   ug/L   105   (85-115)   20   3.4     MSD_20110   | MS_201107270067       | Thallium Total ICAP/MS               | ND      | 20     | 19.8      | ug/L  | 99         | (70-130)      |                 | _    |
| MSDZ_201107270068   Thallium Total ICAP/MS   ND   20   19.8   ug/L   99   (70-130)   20   0.95   | MS2_201107270068      | Thallium Total ICAP/MS               | ND      | 20     | 20.0      | ug/L  | 100        | (70-130)      |                 |      |
| LCS1 Zinc Total ICAPIMS 100 108 ug/L 108 (85-115) 20 4.7  MRL_CHK Zinc Total ICAPIMS 100 103 ug/L 103 (85-115) 20 4.7  MRL_CHK Zinc Total ICAPIMS 100 108 ug/L 103 (85-115) 20 4.7  MRL_CHK Zinc Total ICAPIMS 100 108 ug/L 108 (70-130)  MS2_201107270067 Zinc Total ICAPIMS 100 107 ug/L 107 (70-130)  MS2_201107270068 Zinc Total ICAPIMS 100 107 ug/L 107 (70-130)  MSD2_201107270068 Zinc Total ICAPIMS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270068 Zinc Total ICAPIMS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270068 Zinc Total ICAPIMS 100 107 ug/L 107 (70-130) 20 0.0  CC Ref# 611533 - Alkalinity in CaCO3 units by SM 2320B  LCS1 Alkalinity in CaCO3 units 100 97.6 mg/L 97 (90-110) 20 0.8  MBLK Alkalinity in CaCO3 units 100 97.6 mg/L 98 (90-110) 20 0.8  MBLK Alkalinity in CaCO3 units 20 2.0 2.19 mg/L 110 (50-150)  MS_201107270143 Alkalinity in CaCO3 units 20 2.0 2.19 mg/L 110 (50-150)  MS_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 48 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 46 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 1.8  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 1.8  MSD_201107270088 Alkalinity in CaCO3  | MSD_201107270067      | Thallium Total ICAP/MS               | ND      | 20     | 20.2      | ug/L  | 101        | (70-130)      | 20              | 2.3  |
| LCS2   | MSD2_201107270068     | Thallium Total ICAP/MS               | ND      | 20     | 19.8      | ug/L  | 99         | (70-130)      | 20              | 0.90 |
| MRL_CHK Zinc Total ICAPMS 20 21.0 ug/L 105 (50-150)  MS_201107270067 Zinc Total ICAPMS 100 107 ug/L 107 (70-130)  MS2_201107270068 Zinc Total ICAPMS 100 107 ug/L 107 (70-130)  MSD_201107270068 Zinc Total ICAPMS 100 107 ug/L 107 (70-130)  MSD_201107270068 Zinc Total ICAPMS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270088 Zinc Total ICAPMS 100 107 ug/L 107 (70-130) 20 0.0  MSD2_201107270088 Zinc Total ICAPMS 100 107 ug/L 107 (70-130) 20 0.0  CREf# 611533 - Alkalinity in CaCO3 units by SM 2320B  LCS1 Alkalinity in CaCO3 units 100 96.8 mg/L 97 (90-110)  LCS2 Alkalinity in CaCO3 units 100 97.6 mg/L 98 (90-110) 20 0.85  MBLK Alkalinity in CaCO3 units 100 97.6 mg/L 98 (90-110) 20 0.85  MBLC Alkalinity in CaCO3 units 100 97.6 mg/L 98 (80-120)  MS_201107270143 Alkalinity in CaCO3 units 100 170 mg/L 48 (80-120)  MS_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120)  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120)  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  CREf# 611642 - ICPMS Metals by EPA 200.8  LCS1 Aluminum Total ICAPMS 200 209 ug/L 101 (85-115)  LCS2 Aluminum Total ICAPMS 200 209 ug/L 101 (85-115)  LCS2 Aluminum Total ICAPMS 200 209 ug/L 105 (85-115) 20 3.4  MBLK Aluminum Total ICAPMS 200 672 ug/L 163 (70-130) 20 13  LCS1 Beryllium Total ICAPMS 50 5.25 ug/L 105 (85-115) 20 3.4  MSD_201107270088 Aluminum Total ICAPMS 50 5.25 ug/L 105 (85-115) 20 3.9  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)  MSD_201107270088 Beryllium Total ICAPMS 50 5.0 5.05 ug/L 101 (70-130)   | LCS1                  | Zinc Total ICAP/MS                   |         | 100    | 108       | ug/L  | 108        | (85-115)      |                 |      |
| MS_201107270067  | LCS2                  | Zinc Total ICAP/MS                   |         | 100    | 103       | ug/L  | 103        | (85-115)      | 20              | 4.7  |
| MSZ_201107270068   | MRL_CHK               | Zinc Total ICAP/MS                   |         | 20     | 21.0      | ug/L  | 105        | (50-150)      |                 |      |
| MSD_201107270067   | MS_201107270067       | Zinc Total ICAP/MS                   |         | 100    | 108       | ug/L  | 108        | (70-130)      |                 |      |
| MSD2_201107270088   Zinc Total ICAPMS   100   107   ug/L   107   (70-130)   20   0.0   | MS2_201107270068      | Zinc Total ICAP/MS                   |         | 100    | 107       | ug/L  | 107        | (70-130)      |                 |      |
| Color   Colo   | MSD_201107270067      | Zinc Total ICAP/MS                   |         | 100    | 108       | ug/L  | 108        | (70-130)      | 20              | 0.0  |
| LCS1 Alkalinity in CaCO3 units 100 96.8 mg/L 97 (90-110)  LCS2 Alkalinity in CaCO3 units 100 97.6 mg/L 98 (90-110) 20 0.85  MBLK Alkalinity in CaCO3 units 20 219 mg/L 110 (50-150)  MR_CHK Alkalinity in CaCO3 units 20 170 mg/L 48 (80-120)  MS_201107210143 Alkalinity in CaCO3 units 85 100 170 mg/L 48 (80-120)  MS_201107210143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120)  MSD_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 101 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  CC Ref# 611642 - ICPMS Metals by EPA 200.8  LCS1 Aluminum Total ICAP/MS 200 202 ug/L 101 (85-115)  LCS2 Aluminum Total ICAP/MS 200 209 ug/L 105 (85-115) 20 3.4  MBLK Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MS_201107270068 Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MS_201107270068 Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MSD_201107270068 Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MSD_201107270068 Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.25 ug/L 109 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 5.0 5.46 ug/L 109 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 100 (70-130) 20 1   | MSD2_201107270068     | Zinc Total ICAP/MS                   |         | 100    | 107       | ug/L  | 107        | (70-130)      | 20              | 0.0  |
| LCS2   | QC Ref# 611533 - Alka | alinity in CaCO3 units by SM 2320B   |         |        |           | Α     | nalysis Da | ate: 07/28/20 | 11              |      |
| LCS2   | LCS1                  | Alkalinity in CaCO3 units            |         | 100    | 96.8      | mg/L  | 97         | (90-110)      |                 |      |
| MBLK         Alkalinity in CaCO3 units         <2         mg/L           MRL_CHK         Alkalinity in CaCO3 units         2.0         2.19         mg/L         110         (50-150)           MS_201107210143         Alkalinity in CaCO3 units         100         170         mg/L         48         (80-120)           MSD_201107270143         Alkalinity in CaCO3 units         85         100         180         mg/L         48         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         169         mg/L         48         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           ACC Ref# 611642 - ICPMS         Alkalinity in CaCO3 units         85         100         185         Malysis D   | LCS2                  | Alkalinity in CaCO3 units            |         | 100    | 97.6      | mg/L  | 98         |               | 20              | 0.82 |
| MS_201107210143         Alkalinity in CaCO3 units         100         170         mg/L         48         (80-120)           MS_201107270143         Alkalinity in CaCO3 units         85         100         180         mg/L         95         (80-120)           MSD_201107270143         Alkalinity in CaCO3 units         100         169         mg/L         46         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (80-120)         20         2.5           MSD_201107270143         Alkalinity in CaCO3 units         85         100         185         mg/L         101         (85-115)         20         5.8           QC Ref# 611642 - ICPMS         40         20         20         ug/L         101         (85-115)         20         3.4           LCS1         Aluminum Total ICAP/MS<  | MBLK                  | Alkalinity in CaCO3 units            |         |        | <2        | mg/L  |            |               |                 |      |
| MS_201107270143 Alkalinity in CaCO3 units 85 100 180 mg/L 95 (80-120)  MSD_201107270143 Alkalinity in CaCO3 units 100 169 mg/L 46 (80-120) 20 2.5  MSD_201107270143 Alkalinity in CaCO3 units 85 100 185 mg/L 101 (80-120) 20 5.8  QC Ref# 611642 - ICPMS Metals by EPA 200.8  LCS1 Aluminum Total ICAP/MS 200 202 ug/L 101 (85-115) 20 3.4  MBLK Aluminum Total ICAP/MS 200 209 ug/L 105 (85-115) 20 3.4  MRL_CHK Aluminum Total ICAP/MS 200 21.3 ug/L 106 (50-150)  MS_201107270068 Aluminum Total ICAP/MS 200 672 ug/L 163 (70-130)  MSD_201107270068 Aluminum Total ICAP/MS 200 717 ug/L 166 (70-130) 20 13  LCS1 Beryllium Total ICAP/MS 5.0 5.25 ug/L 105 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 5.0 5.46 ug/L 109 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 5.0 5.05 ug/L 108 (50-150)  MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 108 (50-150)  MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130) 20 1   | MRL_CHK               | Alkalinity in CaCO3 units            |         | 2.0    | 2.19      | mg/L  | 110        | (50-150)      |                 |      |
| MS_201107270143       Alkalinity in CaCO3 units       85       100       180       mg/L       95       (80-120)         MSD_201107210143       Alkalinity in CaCO3 units       100       169       mg/L       46       (80-120)       20       2.5         MSD_201107270143       Alkalinity in CaCO3 units       85       100       185       mg/L       101       (80-120)       20       2.5         QC Ref# 611642 - ICPMS Metals by EPA 200.8       Analysis Date: 07/29/2011         LCS1       Aluminum Total ICAP/MS       200       202       ug/L       101       (85-115)       20       3.4         MBLK       Aluminum Total ICAP/MS       200       209       ug/L       105       (85-115)       20       3.4         MRL_CHK       Aluminum Total ICAP/MS       20       21.3       ug/L       106       (50-150)       10         MSD_201107270068       Aluminum Total ICAP/MS       20       672       ug/L       106       (50-150)       10         MSD_201107270068       Aluminum Total ICAP/MS       5.0       5.25       ug/L       105       (85-115)       20       13         LCS1       Beryllium Total ICAP/MS       5.0       5.46       ug/L       109 <td< td=""><td>MS_201107210143</td><td>Alkalinity in CaCO3 units</td><td></td><td>100</td><td>170</td><td>mg/L</td><td>48</td><td>(80-120)</td><td></td><td></td></td<>   | MS_201107210143       | Alkalinity in CaCO3 units            |         | 100    | 170       | mg/L  | 48         | (80-120)      |                 |      |
| MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   101   (80-120)   20   5.8   | MS_201107270143       | Alkalinity in CaCO3 units            | 85      | 100    | 180       | mg/L  |            | (80-120)      |                 |      |
| MSD_201107270143   Alkalinity in CaCO3 units   85   100   185   mg/L   101   (80-120)   20   5.8   | MSD_201107210143      | Alkalinity in CaCO3 units            |         | 100    | 169       | mg/L  | 46         | (80-120)      | 20              | 2.5  |
| LCS1 Aluminum Total ICAP/MS 200 202 ug/L 101 (85-115)  LCS2 Aluminum Total ICAP/MS 200 209 ug/L 105 (85-115) 20 3.4  MBLK Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MS_201107270068 Aluminum Total ICAP/MS 200 672 ug/L 163 (70-130)  MSD_201107270068 Aluminum Total ICAP/MS 200 717 ug/L 186 (70-130) 20 13  LCS1 Beryllium Total ICAP/MS 5.0 5.25 ug/L 105 (85-115)  LCS2 Beryllium Total ICAP/MS 5.0 5.46 ug/L 109 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 1.0 1.08 ug/L 108 (50-150)  MR_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 100 (70-130) 20 1  QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C  Analysis Date: 07/28/2011   | MSD_201107270143      | Alkalinity in CaCO3 units            | 85      | 100    | 185       | mg/L  |            | (80-120)      | 20              | 5.8  |
| LCS2 Aluminum Total ICAP/MS 200 209 ug/L 105 (85-115) 20 3.4  MBLK Aluminum Total ICAP/MS < 20 ug/L  MRL_CHK Aluminum Total ICAP/MS 20 21.3 ug/L 106 (50-150)  MS_201107270068 Aluminum Total ICAP/MS 200 672 ug/L 163 (70-130)  MSD_201107270068 Aluminum Total ICAP/MS 200 717 ug/L 186 (70-130) 20 13  LCS1 Beryllium Total ICAP/MS 5.0 5.25 ug/L 105 (85-115)  LCS2 Beryllium Total ICAP/MS 5.0 5.46 ug/L 109 (85-115) 20 3.9  MBLK Beryllium Total ICAP/MS 1.0 1.08 ug/L 108 (50-150)  MRL_CHK Beryllium Total ICAP/MS 1.0 1.08 ug/L 101 (70-130)  MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 100 (70-130) 20 1  QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C  Analysis Date: 07/28/2011  | QC Ref# 611642 - ICPI | MS Metals by EPA 200.8               |         |        |           | А     | nalysis Da | ate: 07/29/20 | 11              |      |
| LCS2   Aluminum Total ICAP/MS   200   209   ug/L   105   (85-115)   20   3.4     MBLK   Aluminum Total ICAP/MS   <20   ug/L     MRL_CHK   Aluminum Total ICAP/MS   20   21.3   ug/L   106   (50-150)     MS_201107270068   Aluminum Total ICAP/MS   200   672   ug/L   163   (70-130)   20   13     LCS1   Beryllium Total ICAP/MS   5.0   5.25   ug/L   105   (85-115)     LCS2   Beryllium Total ICAP/MS   5.0   5.46   ug/L   109   (85-115)   20   3.9     MBLK   Beryllium Total ICAP/MS   5.0   5.05   ug/L   108   (50-150)     MRL_CHK   Beryllium Total ICAP/MS   1.0   1.08   ug/L   108   (50-150)     MS_201107270068   Beryllium Total ICAP/MS   5.0   5.05   ug/L   101   (70-130)     MSD_201107270068   Beryllium Total ICAP/MS   5.0   5.00   ug/L   100   (70-130)   20   1     QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C   Analysis Date: 07/28/2011  | LCS1                  | Aluminum Total ICAP/MS               |         | 200    | 202       | ug/L  | 101        | (85-115)      |                 |      |
| MBLK       Aluminum Total ICAP/MS       <20       ug/L         MRL_CHK       Aluminum Total ICAP/MS       20       21.3       ug/L       106       (50-150)         MS_201107270068       Aluminum Total ICAP/MS       200       672       ug/L       163       (70-130)       20       13         LCS1       Beryllium Total ICAP/MS       200       717       ug/L       186       (70-130)       20       13         LCS2       Beryllium Total ICAP/MS       5.0       5.25       ug/L       105       (85-115)       20       3.9         MBLK       Beryllium Total ICAP/MS       5.0       5.46       ug/L       109       (85-115)       20       3.9         MRL_CHK       Beryllium Total ICAP/MS       1.0       1.08       ug/L       108       (50-150)         MS_201107270068       Beryllium Total ICAP/MS       5.0       5.05       ug/L       101       (70-130)       20       1         QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C       Analysis Date: 07/28/2011   |                       |                                      |         | 200    | 209       |       |            | 1711 10011    | 20              | 3.4  |
| MRL_CHK       Aluminum Total ICAP/MS       20       21.3       ug/L       106       (50-150)         MS_201107270068       Aluminum Total ICAP/MS       200       672       ug/L       163       (70-130)         MSD_201107270068       Aluminum Total ICAP/MS       200       717       ug/L       186       (70-130)       20       13         LCS1       Beryllium Total ICAP/MS       5.0       5.25       ug/L       105       (85-115)       20       3.9         MBLK       Beryllium Total ICAP/MS       5.0       5.46       ug/L       109       (85-115)       20       3.9         MRL_CHK       Beryllium Total ICAP/MS       1.0       1.08       ug/L       108       (50-150)         MS_201107270068       Beryllium Total ICAP/MS       5.0       5.05       ug/L       101       (70-130)       20       1         QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C       Analysis Date: 07/28/2011   | MBLK                  | Aluminum Total ICAP/MS               |         |        | <20       |       |            | 1 (2.37)      |                 |      |
| MS_201107270068       Aluminum Total ICAP/MS       200       672       ug/L       163       (70-130)         MSD_201107270068       Aluminum Total ICAP/MS       200       717       ug/L       186       (70-130)       20       13         LCS1       Beryllium Total ICAP/MS       5.0       5.25       ug/L       105       (85-115)       20       3.9         LCS2       Beryllium Total ICAP/MS       5.0       5.46       ug/L       109       (85-115)       20       3.9         MBLK       Beryllium Total ICAP/MS       <1   | MRL_CHK               | Aluminum Total ICAP/MS               |         | 20     | 21.3      | ug/L  | 106        | (50-150)      |                 |      |
| MSD_201107270068       Aluminum Total ICAP/MS       200       717       ug/L       186       (70-130)       20       13         LCS1       Beryllium Total ICAP/MS       5.0       5.25       ug/L       105       (85-115)       20       3.9         MBLK       Beryllium Total ICAP/MS       <1   | MS_201107270068       | Aluminum Total ICAP/MS               |         | 200    | 672       | ug/L  | 163        | NO 2000 20    |                 |      |
| LCS2       Beryllium Total ICAP/MS       5.0       5.46       ug/L       109       (85-115)       20       3.9         MBLK       Beryllium Total ICAP/MS       <1   | MSD_201107270068      | Aluminum Total ICAP/MS               |         | 200    | 717       | ug/L  | 186        | (70-130)      | 20              | 13   |
| MBLK         Beryllium Total ICAP/MS         <1         ug/L           MRL_CHK         Beryllium Total ICAP/MS         1.0         1.08         ug/L         108         (50-150)           MS_201107270068         Beryllium Total ICAP/MS         5.0         5.05         ug/L         101         (70-130)           MSD_201107270068         Beryllium Total ICAP/MS         5.0         5.00         ug/L         100         (70-130)         20         1           QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C         Analysis Date: 07/28/2011  | LCS1                  | Beryllium Total ICAP/MS              |         | 5.0    | 5.25      | ug/L  | 105        | (85-115)      |                 |      |
| MRL_CHK         Beryllium Total ICAP/MS         1.0         1.08         ug/L         108         (50-150)           MS_201107270068         Beryllium Total ICAP/MS         5.0         5.05         ug/L         101         (70-130)           MSD_201107270068         Beryllium Total ICAP/MS         5.0         5.00         ug/L         100         (70-130)         20         1           QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C         Analysis Date: 07/28/2011   | LCS2                  | Beryllium Total ICAP/MS              |         | 5.0    | 5.46      | ug/L  | 109        | (85-115)      | 20              | 3.9  |
| MS_201107270068 Beryllium Total ICAP/MS 5.0 5.05 ug/L 101 (70-130)  MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.00 ug/L 100 (70-130) 20 1  QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C Analysis Date: 07/28/2011  | MBLK                  | Beryllium Total ICAP/MS              |         |        | <1        | ug/L  |            |               |                 |      |
| MSD_201107270068 Beryllium Total ICAP/MS 5.0 5.00 ug/L 100 (70-130) 20 1  QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C Analysis Date: 07/28/2011  | MRL_CHK               | Beryllium Total ICAP/MS              |         | 1.0    | 1.08      | ug/L  | 108        | (50-150)      |                 |      |
| QC Ref# 611656 - Total Dissolved Solids (TDS) by E160.1/SM2540C Analysis Date: 07/28/2011  | MS_201107270068       | Beryllium Total ICAP/MS              |         | 5.0    | 5.05      | ug/L  | 101        |               |                 |      |
| And the party of the second profession and the second seco | MSD_201107270068      | Beryllium Total ICAP/MS              |         | 5.0    | 5.00      | ug/L  | 100        | (70-130)      | 20              | 1    |
| DUP_201107260578 Total Dissolved Solid (TDS) 730 740 mg/L (0-20) 20 1.6  | QC Ref# 611656 - Tota | al Dissolved Solids (TDS) by E160.1/ | SM2540C |        |           | A     | nalysis Da | ate: 07/28/20 | 111             |      |
|  | DUP_201107260578      | Total Dissolved Solid (TDS)          | 730     |        | 740       | mg/L  |            | (0-20)        | 20              | 1.6  |

Spike recovery is already corrected for native results.

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Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| QC Type               | Analyte                            | Native | Spiked | Recovered | Units  | Yield (%) | Limits (%)    | RPDLimit<br>(%) | RPD% |
|-----------------------|------------------------------------|--------|--------|-----------|--------|-----------|---------------|-----------------|------|
| DUP_201107260598      | Total Dissolved Solid (TDS)        | 190    |        | 206       | mg/L   |           | (0-20)        | 20              | 8.1  |
| LCS1                  | Total Dissolved Solid (TDS)        |        | 175    | 176       | mg/L   | 101       | (80-114)      |                 |      |
| LCS2                  | Total Dissolved Solid (TDS)        |        | 700    | 722       | mg/L   | 103       | (80-114)      |                 |      |
| MBLK                  | Total Dissolved Solid (TDS)        |        |        | <10       | mg/L   |           |               |                 |      |
| MRL_CHK               | Total Dissolved Solid (TDS)        |        | 10     | 12.0      | mg/L   | 120       | (50-150)      |                 |      |
| QC Ref# 611706 - Alka | alinity in CaCO3 units by SM 2320B |        |        |           | An     | alysis Da | ate: 07/28/20 | 11              |      |
| LCS1                  | Alkalinity in CaCO3 units          |        | 100    | 97.4      | mg/L   | 97        | (90-110)      |                 |      |
| LCS2                  | Alkalinity in CaCO3 units          |        | 100    | 97.9      | mg/L   | 98        | (90-110)      | 20              | 0.51 |
| MBLK                  | Alkalinity in CaCO3 units          |        |        | <2        | mg/L   |           |               |                 |      |
| MRL_CHK               | Alkalinity in CaCO3 units          |        | 2.0    | 2.64      | mg/L   | 132       | (50-150)      |                 |      |
| MS_201107270231       | Alkalinity in CaCO3 units          | 110    | 100    | 206       | mg/L   | 98        | (80-120)      |                 |      |
| MS_201107270599       | Alkalinity in CaCO3 units          | 110    | 100    | 199       | mg/L   | 92        | (80-120)      |                 |      |
| MSD_201107270231      | Alkalinity in CaCO3 units          | 110    | 100    | 206       | mg/L   | 97        | (80-120)      | 20              | 0.31 |
| MSD_201107270599      | Alkalinity in CaCO3 units          | 110    | 100    | 199       | mg/L   | 91        | (80-120)      | 20              | 0.44 |
| QC Ref# 611715 - PH   | (H3=past HT not compliant) by SM45 | 00-HB  |        |           | An     | alysis Da | ate: 07/28/20 | 11              |      |
| DUP_201107270143      | PH (H3=past HT not compliant)      | 8.2    |        | 8.22      | Units  |           | (0-20)        | 20              | 0.03 |
| LCS1                  | PH (H3=past HT not compliant)      |        | 6.0    | 6.01      | Units  | 100       | (98-102)      |                 |      |
| LCS2                  | PH (H3=past HT not compliant)      |        | 6.0    | 6.01      | Units  | 100       | (98-102)      | 20              | 0.0  |
| QC Ref# 611722 - PH   | (H3=past HT not compliant) by SM45 | 00-HB  |        |           | An     | alysis Da | ate: 07/28/20 | 11              |      |
| DUP_201107270231      | PH (H3=past HT not compliant)      | 8.1    |        | 8.08      | Units  |           | (0-20)        | 20              | 7.3  |
| DUP2_201107270599     | PH (H3=past HT not compliant)      | 7.8    |        | 7.84      | Units  |           | (0-20)        | 20              | 0.03 |
| LCS1                  | PH (H3=past HT not compliant)      |        | 6.0    | 6.01      | Units  | 100       | (98-102)      |                 |      |
| LCS2                  | PH (H3=past HT not compliant)      |        | 6.0    | 6.01      | Units  | 100       | (98-102)      | 20              | 0.0  |
| QC Ref# 611727 - Spe  | cific Conductance by SM2510B       |        |        |           | An     | alysis Da | ate: 07/28/20 | 11              |      |
| DUP1_201107210143     | Specific Conductance               | 970    |        | 971       | umho/c | m         | (0-20)        | 20              | 0.35 |
| DUP2_201107270143     | Specific Conductance               | 490    |        | 488       | umho/c | m         | (0-20)        | 20              | 0.41 |
| LCS1                  | Specific Conductance               |        | 1000   | 1010      | umho/c | m 101     | (95-105)      |                 |      |
| LCS2                  | Specific Conductance               |        | 1000   | 1010      | umho/c | m 101     | (95-105)      | 20              | 0.0  |
| MBLK                  | Specific Conductance               |        |        | <2        | umho/c | m         |               |                 |      |
| MRL_CHK               | Specific Conductance               |        | 2.0    | 1.9       | umho/c | m 95      | (50-150)      |                 |      |
| QC Ref# 611730 - Spe  | cific Conductance by SM2510B       |        |        |           | An     | alysis Da | ate: 07/28/20 | 11              |      |
| DUP1_201107270231     | Specific Conductance               | 660    |        | 658       | umho/c | m         | (0-20)        | 20              | 0.26 |
| DUP2_201107270599     | Specific Conductance               | 300    |        | 298       | umho/c | m         | (0-20)        | 20              | 0,0  |
| LCS1                  | Specific Conductance               |        | 1000   | 1010      | umho/c | m 101     | (95-105)      |                 |      |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>28/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used



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MWH Americas, Inc. (continued)

| QC Type               | Analyte              | Native | Spiked | Recovered | Units   | Yield (%) | Limits (%)    | RPDLimit<br>(%) | RPD% |
|-----------------------|----------------------|--------|--------|-----------|---------|-----------|---------------|-----------------|------|
| LCS2                  | Specific Conductance |        | 1000   | 1010      | umho/cı | n 101     | (95-105)      | 20              | 0.0  |
| MBLK                  | Specific Conductance |        |        | <2        | umho/cr |           | 100           |                 |      |
| MRL_CHK               | Specific Conductance |        | 2.0    | 2.00      | umho/cr | m 100     | (50-150)      |                 |      |
| QC Ref# 611783 - Flue | oride by SM 4500F-C  |        |        |           | Ana     | alysis Da | ite: 07/31/20 | 011             |      |
| LCS1                  | Fluoride             |        | 1.0    | 0.939     | mg/L    | 94        | (81-116)      |                 |      |
| LCS2                  | Fluoride             |        | 1.0    | 1.04      | mg/L    | 104       | (81-116)      | 20              | 10   |
| MBLK                  | Fluoride             |        |        | < 0.05    | mg/L    |           |               |                 |      |
| MRL_CHK               | Fluoride             |        | 0.05   | 0.0479    | mg/L    | 96        | (50-150)      |                 |      |
| MS_201107250079       | Fluoride             | ND     | 1.0    | 0.921     | mg/L    | 91        | (73-124)      |                 |      |
| MS_201107280551       | Fluoride             | 0.34   | 1.0    | 1.21      | mg/L    | 87        | (73-124)      |                 |      |
| MSD_201107250079      | Fluoride             | ND     | 1.0    | 0.920     | mg/L    | 91        | (73-124)      | 20              | 0.11 |
| QC Ref# 611840 - ICP  | Metals by EPA 200.7  |        |        |           | Ana     | alysis Da | ite: 07/29/20 | 011             |      |
| LCS1                  | Calcium Total ICAP   |        | 50     | 51.1      | mg/L    | 102       | (85-115)      |                 |      |
| LCS2                  | Calcium Total ICAP   |        | 50     | 51.3      | mg/L    | 103       | (85-115)      | 20              | 0.39 |
| MBLK                  | Calcium Total ICAP   |        |        | <1        | mg/L    |           |               |                 |      |
| MRL_CHK               | Calcium Total ICAP   |        | 1.0    | 1.08      | mg/L    | 108       | (50-150)      |                 |      |
| MS_201107260573       | Calcium Total ICAP   | 23     | 50     | 73.7      | mg/L    | 101       | (70-130)      |                 |      |
| MS2_201107260574      | Calcium Total ICAP   | 41     | 50     | 93.4      | mg/L    | 104       | (70-130)      |                 |      |
| MSD_201107260573      | Calcium Total ICAP   | 23     | 50     | 75.2      | mg/L    | 104       | (70-130)      | 20              | 2.9  |
| MSD2_201107260574     | Calcium Total ICAP   | 41     | 50     | 91.8      | mg/L    | 101       | (70-130)      | 20              | 2.9  |
| LCS1                  | Iron Total ICAP      |        | 5.0    | 5.17      | mg/L    | 103       | (85-115)      |                 |      |
| LCS2                  | Iron Total ICAP      |        | 5.0    | 5,2       | mg/L    | 104       | (85-115)      | 20              | 0.58 |
| MBLK                  | Iron Total ICAP      |        |        | < 0.02    | mg/L    |           |               |                 |      |
| MRL_CHK               | Iron Total ICAP      |        | 0.02   | 0.0232    | mg/L    | 116       | (50-150)      |                 |      |
| MS_201107260573       | Iron Total ICAP      | 0.10   | 5.0    | 5.21      | mg/L    | 102       | (70-130)      |                 |      |
| MS2_201107260574      | Iron Total ICAP      | 0.069  | 5.0    | 5.21      | mg/L    | 103       | (70-130)      |                 |      |
| MSD_201107260573      | Iron Total ICAP      | 0.10   | 5.0    | 5.45      | mg/L    | 107       | (70-130)      | 20              | 4.8  |
| MSD2_201107260574     | Iron Total ICAP      | 0.069  | 5.0    | 5.21      | mg/L    | 103       | (70-130)      | 20              | 0.0  |
| LCS1                  | Magnesium Total ICAP |        | 20     | 20.7      | mg/L    | 104       | (85-115)      |                 |      |
| LCS2                  | Magnesium Total ICAP |        | 20     | 20.9      | mg/L    | 104       | (85-115)      | 20              | 0.96 |
| MBLK                  | Magnesium Total ICAP |        |        | <0.1      | mg/L    |           |               |                 |      |
| MRL_CHK               | Magnesium Total ICAP |        | 0.1    | 0.117     | mg/L    | 117       | (50-150)      |                 |      |
| MS_201107260573       | Magnesium Total ICAP | 8.7    | 20     | 28.9      | mg/L    | 101       | (70-130)      |                 |      |
| MS2_201107260574      | Magnesium Total ICAP | 10     | 20     | 31.1      | mg/L    | 104       | (70-130)      |                 |      |
| MSD_201107260573      | Magnesium Total ICAP | 8.7    | 20     | 30.3      | mg/L    | 108       | (70-130)      | 20              | 6.7  |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used



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MWH Americas, Inc. (continued)

| QC Type              | Analyte                | Native | Spiked | Recovered | Units | Yield (%)  | Limits (%)    | RPDLimit<br>(%) | RPD% |
|----------------------|------------------------|--------|--------|-----------|-------|------------|---------------|-----------------|------|
| MSD2_201107260574    | Magnesium Total ICAP   | 10     | 20     | 31.0      | mg/L  | 104        | (70-130)      | 20              | 0.0  |
| LCS1                 | Potassium Total ICAP   |        | 20     | 19.9      | mg/L  | 100        | (85-115)      |                 |      |
| LCS2                 | Potassium Total ICAP   |        | 20     | 20.0      | mg/L  | 100        | (85-115)      | 20              | 0.50 |
| MBLK                 | Potassium Total ICAP   |        |        | <1        | mg/L  |            |               |                 |      |
| MRL_CHK              | Potassium Total ICAP   |        | 1.0    | 1.03      | mg/L  | 103        | (50-150)      |                 |      |
| MS_201107260573      | Potassium Total ICAP   | 5.5    | 20     | 25.2      | mg/L  | 99         | (70-130)      |                 |      |
| MS2_201107260574     | Potassium Total ICAP   | 12     | 20     | 32.6      | mg/L  | 103        | (70-130)      |                 |      |
| MSD_201107260573     | Potassium Total ICAP   | 5.5    | 20     | 26.3      | mg/L  | 104        | (70-130)      | 20              | 5.3  |
| MSD2_201107260574    | Potassium Total ICAP   | 12     | 20     | 32.4      | mg/L  | 102        | (70-130)      | 20              | 0.98 |
| LCS1                 | Sodium Total ICAP      |        | 50     | 49.0      | mg/L  | 98         | (85-115)      |                 |      |
| LCS2                 | Sodium Total ICAP      |        | 50     | 49.7      | mg/L  | 100        | (85-115)      | 20              | 1.4  |
| MBLK                 | Sodium Total ICAP      |        |        | <1        | mg/L  |            |               |                 |      |
| MRL_CHK              | Sodium Total ICAP      |        | 1.0    | 1.12      | mg/L  | 112        | (50-150)      |                 |      |
| MS_201107260573      | Sodium Total ICAP      | 40     | 50     | 89.8      | mg/L  | 99         | (70-130)      |                 |      |
| MS2_201107260574     | Sodium Total ICAP      | 88     | 50     | 142       | mg/L  | 107        | (70-130)      |                 |      |
| MSD_201107260573     | Sodium Total ICAP      | 40     | 50     | 92.0      | mg/L  | 103        | (70-130)      | 20              | 4.3  |
| MSD2_201107260574    | Sodium Total ICAP      | 88     | 50     | 140       | mg/L  | 103        | (70-130)      | 20              | 3.8  |
| C Ref# 612022 - ICPI | MS Metals by EPA 200.8 |        |        |           | A     | nalysis Da | ite: 08/01/20 | 11              |      |
| LCS1                 | Aluminum Total ICAP/MS |        | 200    | 201       | ug/L  | 100        | (85-115)      |                 |      |
| LCS2                 | Aluminum Total ICAP/MS |        | 200    | 200       | ug/L  | 100        | (85-115)      | 20              | 0.50 |
| MBLK                 | Aluminum Total ICAP/MS |        |        | <20       | ug/L  |            | 165           |                 |      |
| MRL_CHK              | Aluminum Total ICAP/MS |        | 20     | 22.6      | ug/L  | 113        | (50-150)      |                 |      |
| MS_201107260375      | Aluminum Total ICAP/MS |        | 200    | 195       | ug/L  | 97         | (70-130)      |                 |      |
| MS2_201107140791     | Aluminum Total ICAP/MS | 29     | 200    | 222       | ug/L  | 96         | (70-130)      |                 |      |
| MSD_201107260375     | Aluminum Total ICAP/MS |        | 200    | 201       | ug/L  | 100        | (70-130)      | 20              | 3.3  |
| MSD2_201107140791    | Aluminum Total ICAP/MS | 29     | 200    | 222       | ug/L  | 96         | (70-130)      | 20              | 0.0  |
| LCS1                 | Antimony Total ICAP/MS |        | 50     | 48.7      | ug/L  | 98         | (85-115)      |                 |      |
| LCS2                 | Antimony Total ICAP/MS |        | 50     | 47.2      | ug/L  | 94         | (85-115)      | 20              | 3.1  |
| MBLK                 | Antimony Total ICAP/MS |        |        | <1        | ug/L  |            |               |                 |      |
| MRL_CHK              | Antimony Total ICAP/MS |        | 1.0    | 0.961     | ug/L  | 96         | (50-150)      |                 |      |
| MS_201107260375      | Antimony Total ICAP/MS | ND     | 50     | 46.3      | ug/L  | 92         | (70-130)      |                 |      |
| MS2_201107140791     | Antimony Total ICAP/MS | ND     | 50     | 46.3      | ug/L  | 92         | (70-130)      |                 |      |
| MSD_201107260375     | Antimony Total ICAP/MS | ND     | 50     | 48.7      | ug/L  | 97         | (70-130)      | 20              | 5.1  |
| MSD2_201107140791    | Antimony Total ICAP/MS | ND     | 50     | 45.6      | ug/L  | 91         | (70-130)      | 20              | 1.4  |
| LCS1                 | Arsenic Total ICAP/MS  |        | 20     | 19.2      | ug/L  | 96         | (85-115)      |                 |      |
| LCS2                 | Arsenic Total ICAP/MS  |        | 20     | 19.1      | ug/L  | 96         | (85-115)      | 20              | 0.0  |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u> Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>30/53</sup> 

<sup>(</sup>I) Indicates internal standard compound. RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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MWH Americas, Inc. (continued)

| QC Type           | Analyte                 | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit<br>(%) | RPD% |
|-------------------|-------------------------|--------|--------|-----------|-------|-----------|------------|-----------------|------|
| MBLK              | Arsenic Total ICAP/MS   |        |        | <1        | ug/L  |           |            |                 |      |
| MRL_CHK           | Arsenic Total ICAP/MS   |        | 1.0    | 0.977     | ug/L  | 98        | (50-150)   |                 |      |
| MS_201107260375   | Arsenic Total ICAP/MS   | 7.6    | 20     | 27.1      | ug/L  | 98        | (70-130)   |                 |      |
| MS2_201107140791  | Arsenic Total ICAP/MS   | ND     | 20     | 19.1      | ug/L  | 94        | (70-130)   |                 |      |
| MSD_201107260375  | Arsenic Total ICAP/MS   | 7.6    | 20     | 27.9      | ug/L  | 102       | (70-130)   | 20              | 4.2  |
| MSD2_201107140791 | Arsenic Total ICAP/MS   | ND     | 20     | 18.9      | ug/L  | 93        | (70-130)   | 20              | 1.1  |
| LCS1              | Barium Total ICAP/MS    |        | 100    | 96.7      | ug/L  | 97        | (85-115)   |                 |      |
| LCS2              | Barium Total ICAP/MS    |        | 100    | 94.5      | ug/L  | 95        | (85-115)   | 20              | 2.3  |
| MBLK              | Barium Total ICAP/MS    |        |        | <2        | ug/L  |           |            |                 |      |
| MRL_CHK           | Barium Total ICAP/MS    |        | 2.0    | 2.37      | ug/L  | 119       | (50-150)   |                 |      |
| MS_201107260375   | Barium Total ICAP/MS    | 59     | 100    | 160       | ug/L  | 101       | (70-130)   |                 |      |
| MS2_201107140791  | Barium Total ICAP/MS    | 18     | 100    | 111       | ug/L  | 93        | (70-130)   |                 |      |
| MSD_201107260375  | Barium Total ICAP/MS    | 59     | 100    | 167       | ug/L  | 108       | (70-130)   | 20              | 6.7  |
| MSD2_201107140791 | Barium Total ICAP/MS    | 18     | 100    | 109       | ug/L  | 91        | (70-130)   | 20              | 2.7  |
| LCS1              | Beryllium Total ICAP/MS |        | 5.0    | 4.82      | ug/L  | 96        | (85-115)   |                 |      |
| LCS2              | Beryllium Total ICAP/MS |        | 5.0    | 4.8       | ug/L  | 96        | (85-115)   | 20              | 0.42 |
| MBLK              | Beryllium Total ICAP/MS |        |        | <1        | ug/L  |           |            |                 |      |
| MRL_CHK           | Beryllium Total ICAP/MS |        | 1.0    | 0.985     | ug/L  | 99        | (50-150)   |                 |      |
| MS2_201107140791  | Beryllium Total ICAP/MS | ND     | 5.0    | 4.74      | ug/L  | 95        | (70-130)   |                 |      |
| MSD2_201107140791 | Beryllium Total ICAP/MS | ND     | 5.0    | 4.68      | ug/L  | 94        | (70-130)   | 20              | 1.1  |
| LCS1              | Cadmium Total ICAP/MS   |        | 20     | 19.6      | ug/L  | 98        | (85-115)   |                 |      |
| LCS2              | Cadmium Total ICAP/MS   |        | 20     | 19.1      | ug/L  | 96        | (85-115)   | 20              | 2.6  |
| MBLK              | Cadmium Total ICAP/MS   |        |        | <0.5      | ug/L  |           |            |                 |      |
| MRL_CHK           | Cadmium Total ICAP/MS   |        | 0.5    | 0.486     | ug/L  | 97        | (50-150)   |                 |      |
| MS_201107260375   | Cadmium Total ICAP/MS   | ND     | 20     | 17.9      | ug/L  | 90        | (70-130)   |                 |      |
| MS2_201107140791  | Cadmium Total ICAP/MS   | ND     | 20     | 18.9      | ug/L  | 95        | (70-130)   |                 |      |
| MSD_201107260375  | Cadmium Total ICAP/MS   | ND     | 20     | 18.5      | ug/L  | 93        | (70-130)   | 20              | 3.4  |
| MSD2_201107140791 | Cadmium Total ICAP/MS   | ND     | 20     | 18.5      | ug/L  | 93        | (70-130)   | 20              | 2.2  |
| LCS1              | Chromium Total ICAP/MS  |        | 100    | 101       | ug/L  | 101       | (85-115)   |                 |      |
| LCS2              | Chromium Total ICAP/MS  |        | 100    | 100       | ug/L  | 100       | (85-115)   | 20              | 1    |
| MBLK              | Chromium Total ICAP/MS  |        |        | <1        | ug/L  |           |            |                 |      |
| MRL_CHK           | Chromium Total ICAP/MS  |        | 1.0    | 1.02      | ug/L  | 102       | (50-150)   |                 |      |
| MS_201107260375   | Chromium Total ICAP/MS  | ND     | 100    | 97.5      | ug/L  | 97        | (70-130)   |                 |      |
| MS2_201107140791  | Chromium Total ICAP/MS  | ND     | 100    | 96.7      | ug/L  | 97        | (70-130)   |                 |      |
| MSD_201107260375  | Chromium Total ICAP/MS  | ND     | 100    | 99.9      | ug/L  | 99        | (70-130)   | 20              | 2.5  |
| MSD2_201107140791 | Chromium Total ICAP/MS  | ND     | 100    | 95.2      | ug/L  | 95        | (70-130)   | 20              | 1.7  |
| LCS1              | Copper Total ICAP/MS    |        | 100    | 96.6      | ug/L  | 97        | (85-115)   |                 |      |

Laboratory

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

<sup>(</sup>S) Indicates surrogate compound.

<sup>(</sup>I) Indicates internal standard compound.

<sup>31/53</sup> 

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)