

## Daily Analysis Runlog For Sequence/QC Batch ID # LB87814

|               |             |                   |        |                  |         |        |
|---------------|-------------|-------------------|--------|------------------|---------|--------|
| Review By     |             | Review On         |        |                  |         |        |
| SubDirectory  |             | LB87814           |        | Test : Carbonate |         |        |
| STD. NAME     |             | STD REF.#         |        |                  |         |        |
| ICAL Standard |             | N/A               |        |                  |         |        |
| ICV Standard  |             | N/A               |        |                  |         |        |
| CCV Standard  |             | N/A               |        |                  |         |        |
| ICSA Standard |             | N/A               |        |                  |         |        |
| CRI Standard  |             | N/A               |        |                  |         |        |
| LCS Standard  |             | WP55337           |        |                  |         |        |
| Chk Standard  |             | W2074,W2159,W2183 |        |                  |         |        |
| Sr#           | SampleID    | ClientID          | QcType | Date             | Comment | Status |
| 1             | LB87814BLW  | LB87814BLW        | MB     | 06/02/17 08:58   |         | OK     |
| 2             | LB87814BSW  | LB87814BSW        | LCS    | 06/02/17 09:02   |         | OK     |
| 3             | I3410-01    | MW9-053-1         | SAM    | 06/02/17 09:07   |         | OK     |
| 4             | I3410-01DUP | MW9-053-1DUP      | DUP    | 06/02/17 09:11   |         | OK     |
| 5             | I3410-02    | MW1-053-1         | SAM    | 06/02/17 09:16   |         | OK     |
| 6             | I3410-03    | MW6-053-1         | SAM    | 06/02/17 09:20   |         | OK     |
| 7             | I3410-04    | MWP2-053-1        | SAM    | 06/02/17 09:24   |         | OK     |
| 8             | I3410-05    | MW8M-053-1        | SAM    | 06/02/17 09:28   |         | OK     |
| 9             | I3410-06    | MW8D-053-1        | SAM    | 06/02/17 09:33   |         | OK     |
| 10            | I3410-07    | MW8D-053-2        | SAM    | 06/02/17 09:38   |         | OK     |
| 11            | I3410-08    | MWP4-053-1        | SAM    | 06/02/17 09:43   |         | OK     |
| 12            | I3410-09    | MW4D-053-3        | SAM    | 06/02/17 09:47   |         | OK     |
| 13            | I3410-10    | MW4S-053-1        | SAM    | 06/02/17 09:49   |         | OK     |
| 14            | I3410-11    | MW4D-053-1        | SAM    | 06/02/17 09:53   |         | OK     |
| 15            | I3410-12    | MW4M-053-01       | SAM    | 06/02/17 09:58   |         | OK     |
| 16            | I3410-13    | MW11M-053-1       | SAM    | 06/02/17 10:08   |         | OK     |
| 17            | I3410-14    | MW11D-053-1       | SAM    | 06/02/17 10:12   |         | OK     |
| 18            | I3410-15    | MW2S-053-3        | SAM    | 06/02/17 10:16   |         | OK     |
| 19            | I3410-16    | MW2S-053-1        | SAM    | 06/02/17 10:19   |         | OK     |
| 20            | I3410-17    | MW10M-053-1       | SAM    | 06/02/17 10:22   |         | OK     |
| 21            | I3410-18    | MW10M-053-2       | SAM    | 06/02/17 10:27   |         | OK     |

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**Daily Analysis Runlog For Sequence/QC Batch ID # LB87814**

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|---------------|-------------|-------------------|-----|------------------|--|----|
| Review By     |             | Review On         |     |                  |  |    |
| SubDirectory  |             | LB87814           |     | Test : Carbonate |  |    |
| STD. NAME     |             | STD REF.#         |     |                  |  |    |
| ICAL Standard |             | N/A               |     |                  |  |    |
| ICV Standard  |             | N/A               |     |                  |  |    |
| CCV Standard  |             | N/A               |     |                  |  |    |
| ICSA Standard |             | N/A               |     |                  |  |    |
| CRI Standard  |             | N/A               |     |                  |  |    |
| LCS Standard  |             | WP55337           |     |                  |  |    |
| Chk Standard  |             | W2074,W2159,W2183 |     |                  |  |    |
| 22            | I3410-19    | MW10D-053-1       | SAM | 06/02/17 10:32   |  | OK |
| 23            | LB87814BLW2 | LB87814BLW2       | MB  | 06/02/17 10:36   |  | OK |
| 24            | LB87814BSW2 | LB87814BSW2       | LCS | 06/02/17 10:39   |  | OK |
| 25            | I3411-01    | I01I-053-1        | SAM | 06/02/17 10:45   |  | OK |
| 26            | I3411-01DUP | I01I-053-1DUP     | DUP | 06/02/17 10:49   |  | OK |
| 27            | I3411-02    | I03I-053-1        | SAM | 06/02/17 10:54   |  | OK |
| 28            | I3411-03    | I04I-053-1        | SAM | 06/02/17 10:59   |  | OK |
| 29            | I3411-04    | I05I-053-1        | SAM | 06/02/17 11:03   |  | OK |
| 30            | I3411-05    | I06I-053-1        | SAM | 06/02/17 11:07   |  | OK |



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## Report of Analysis

|                   |           |                 |                       |
|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814   | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW9-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-01  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.034 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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## Report of Analysis

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|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814   | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW1-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-02  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter | Conc.  | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|--------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.0053 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814   | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW6-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-03  | Matrix:         | WATER                 |
| Level (low/med):  | low       | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.029 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MWP2-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-04   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc.  | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|--------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.0014 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW8M-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.079 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW8D-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-06   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.11  | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW8D-053-2 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-07   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.11  | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MWP4-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-08   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.017 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW4D-053-3 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-09   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | -0    | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW4S-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-10   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.022 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | MW4D-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-11   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.09  | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW4M-053-01 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-12    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.085 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW11M-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-13    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.043 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW11D-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-14    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.093 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW2S-053-3 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-15   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0     | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW2S-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-16   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc.  | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|--------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.0017 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW10M-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-17    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.097 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW10M-053-2 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-18    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.092 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |             | Date Collected: | 5/31/2017 12:00:00 AM |
| Project:          | LB87814     | Date Received:  | 5/31/2017 12:00:00 AM |
| Client Sample ID: | MW10D-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3410-19    | Matrix:         | WATER                 |
| Level (low/med):  | low         | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.043 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I01I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-01   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.073 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I03I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-02   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.13  | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I04I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-03   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.077 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I05I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-04   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.083 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I06I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | Carbonate | 0.072 | U    | 1  | 0.4 |     | 2          | mg/L  |           | 06/02/2017 | SM2320 B |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 5/30/2017 12:00:00 AM |
| Project:          | LB87814    | Date Received:  | 5/30/2017 12:00:00 AM |
| Client Sample ID: | I06I-053-1 | SDG No.:        | LB87814               |
| Lab Sample ID:    | I3411-05   | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



**GENCHEM**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** LB87814

**SDG No.:** LB87814

**Instrument:** Titroline Alpha Titrator

| Sample ID          | Analyte   | Result<br>(mg/L) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>mg/L | CRQL<br>mg/L | M | Analysis<br>Date  | Analysis<br>Time | Run     |
|--------------------|-----------|------------------|---------------------|----------------------|-------------|--------------|---|-------------------|------------------|---------|
| <b>LB87814BLW</b>  |           | <b>WATER</b>     |                     | <b>Batch Number:</b> |             |              |   | <b>Prep Date:</b> |                  |         |
|                    | Carbonate | 0.4              | <2                  | U                    |             | 2            |   | 06/02/2017        | 08:58            | LB87814 |
| Sample ID          | Analyte   | Result<br>(mg/L) | Acceptance<br>Limit | Conc<br>Qual         | LOD<br>mg/L | CRQL<br>mg/L | M | Analysis<br>Date  | Analysis<br>Time | Run     |
| <b>LB87814BLW2</b> |           | <b>WATER</b>     |                     | <b>Batch Number:</b> |             |              |   | <b>Prep Date:</b> |                  |         |
|                    | Carbonate | 0.4              | <2                  | U                    |             | 2            |   | 06/02/2017        | 10:36            | LB87814 |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB87814      **Level:** LOW      **SDG No.:** LB87814  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB87814      **SAS No.:** LB87814  
**Matrix:** WATER      **Sample ID:** I3410-01      **Client ID:** MW9-053-1DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I3410-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte   | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-----------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Carbonate | mg/L  | 20                  | 0.4              | U | 0.067               | U |     |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB87814      **Level:** LOW      **SDG No.:** LB87814  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB87814      **SAS No.:** LB87814  
**Matrix:** WATER      **Sample ID:** I3411-01      **Client ID:** I011-053-1DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I3411-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte   | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-----------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Carbonate | mg/L  | 20                  | 0.4              | U | 0.12                | U |     |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87814

SDG No.: LB87814

Contract:

Lab Code: CHEM

Case No.: LB87814

SAS No.: LB87814

| Analyte                 | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-------------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB87814BSW<br>Carbonate | mg/L  | 50         | 49.4   |   | 98.8          | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87814

SDG No.: LB87814

Contract:

Lab Code: CHEM

Case No.: LB87814

SAS No.: LB87814

| Analyte                  | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|--------------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB87814BSW2<br>Carbonate | mg/L  | 50         | 46.8   |   | 93.6          | 80 - 120             |   |