

| Sample ID | Analyte           | Result | True Value | %    | % RSD | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|-------------------|--------|------------|------|-------|------------------------|---|---------------|---------------|------------|
|           |                   | mg/L   |            |      |       |                        |   |               |               |            |
| ICV1      | Bromide           | 24     | 25         | 96   | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Chloride          | 7.1    | 7.5        | 94.7 | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Fluoride          | 4.9    | 5          | 98   | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Phosphorus, Ortho | 12.5   | 12.5       | 100  | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Nitrite           | 7.4    | 7.5        | 98.7 | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Nitrate           | 6      | 6.25       | 96   | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |
|           | Sulfate           | 35.2   | 37.5       | 93.9 | 0     | 90 - 110               |   | 03/16/2017    | 19:13         | LB86488    |

| Sample ID | Analyte           | Result | True Value | %     | % RSD | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|-------------------|--------|------------|-------|-------|------------------------|---|---------------|---------------|------------|
|           |                   | mg/L   |            |       |       |                        |   |               |               |            |
| CCV1      | Bromide           | 24.3   | 25         | 97.2  | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Chloride          | 7.2    | 7.5        | 96    | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Fluoride          | 5.1    | 5          | 102   | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Phosphorus, Ortho | 12.6   | 12.5       | 100.8 | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Nitrite           | 7.5    | 7.5        | 100   | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Nitrate           | 6.1    | 6.25       | 97.6  | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
|           | Sulfate           | 36.1   | 37.5       | 96.3  | 0     | 90 - 110               |   | 03/17/2017    | 08:40         | LB86488    |
| CCV2      | Bromide           | 24.6   | 25         | 98.4  | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Chloride          | 7.4    | 7.5        | 98.7  | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Fluoride          | 5.1    | 5          | 102   | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Phosphorus, Ortho | 12.9   | 12.5       | 103.2 | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Nitrite           | 7.6    | 7.5        | 101.3 | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Nitrate           | 6.2    | 6.25       | 99.2  | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |
|           | Sulfate           | 37.2   | 37.5       | 99.2  | 0     | 90 - 110               |   | 03/17/2017    | 16:15         | LB86488    |

| Sample ID | Analyte           | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-------------------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
| ICB1      | Bromide           | 0.066          | +/-0.5              | U            |     | 0.5  |   | 03/16/2017       | 19:44            | LB86488       |
|           | Chloride          | 0.075          | +/-0.15             | U            |     | 0.15 |   | 03/16/2017       | 19:44            | LB86488       |
|           | Fluoride          | 0.043          | +/-0.1              | U            |     | 0.1  |   | 03/16/2017       | 19:44            | LB86488       |
|           | Phosphorus, Ortho | 0.01           | +/-0.25             | U            |     | 0.25 |   | 03/16/2017       | 19:44            | LB86488       |
|           | Nitrite           | 0.022          | +/-0.15             | U            |     | 0.15 |   | 03/16/2017       | 19:44            | LB86488       |
|           | Nitrate           | 0.027          | +/-0.13             | U            |     | 0.13 |   | 03/16/2017       | 19:44            | LB86488       |
|           | Sulfate           | 0.13           | +/-0.75             | U            |     | 0.75 |   | 03/16/2017       | 19:44            | LB86488       |

| Sample ID | Analyte           | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-------------------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
| CCB1      | Bromide           | 0.066          | +/-0.5              | U            |     | 0.5  |   | 03/17/2017       | 09:13            | LB86488       |
|           | Chloride          | 0.075          | +/-0.15             | U            |     | 0.15 |   | 03/17/2017       | 09:13            | LB86488       |
|           | Fluoride          | 0.043          | +/-0.1              | U            |     | 0.1  |   | 03/17/2017       | 09:13            | LB86488       |
|           | Phosphorus, Ortho | 0.01           | +/-0.25             | U            |     | 0.25 |   | 03/17/2017       | 09:13            | LB86488       |
|           | Nitrite           | 0.022          | +/-0.15             | U            |     | 0.15 |   | 03/17/2017       | 09:13            | LB86488       |
|           | Nitrate           | 0.027          | +/-0.13             | U            |     | 0.13 |   | 03/17/2017       | 09:13            | LB86488       |
|           | Sulfate           | 0.13           | +/-0.75             | U            |     | 0.75 |   | 03/17/2017       | 09:13            | LB86488       |
| CCB2      | Bromide           | 0.066          | +/-0.5              | U            |     | 0.5  |   | 03/17/2017       | 16:47            | LB86488       |
|           | Chloride          | 0.075          | +/-0.15             | U            |     | 0.15 |   | 03/17/2017       | 16:47            | LB86488       |
|           | Fluoride          | 0.043          | +/-0.1              | U            |     | 0.1  |   | 03/17/2017       | 16:47            | LB86488       |
|           | Phosphorus, Ortho | 0.01           | +/-0.25             | U            |     | 0.25 |   | 03/17/2017       | 16:47            | LB86488       |
|           | Nitrite           | 0.022          | +/-0.15             | U            |     | 0.15 |   | 03/17/2017       | 16:47            | LB86488       |
|           | Nitrate           | 0.027          | +/-0.13             | U            |     | 0.13 |   | 03/17/2017       | 16:47            | LB86488       |
|           | Sulfate           | 0.13           | +/-0.75             | U            |     | 0.75 |   | 03/17/2017       | 16:47            | LB86488       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86488

SDG No.: LB86488

Contract: Lab Code: CHEM

Case No.: LB86488

SAS No.: LB86488

| Sample ID | Analyte | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 3/12/2017 12:00:00 AM |
| Project:          | LB86488  | Date Received:  | 3/17/2017 12:00:00 AM |
| Client Sample ID: | BASEMENT | SDG No.:        | LB86488               |
| Lab Sample ID:    | I2310-01 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter         | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
|     | Bromide           | 0     | U    | 1  | 0.066 |     | 0.5        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Chloride          | 75.3  | OR   | 1  | 0.075 |     | 0.15       | mg/L  |           | 03/17/2017 | 300.0    |
|     | Fluoride          | 0     | U    | 1  | 0.043 |     | 0.1        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Nitrate           | 0.59  |      | 1  | 0.027 |     | 0.13       | mg/L  |           | 03/17/2017 | 300.0    |
|     | Nitrite           | 0     | U    | 1  | 0.022 |     | 0.15       | mg/L  |           | 03/17/2017 | 300.0    |
|     | Phosphorus, Ortho | 0     | U    | 1  | 0.01  |     | 0.25       | mg/L  |           | 03/17/2017 | 300.0    |
|     | Sulfate           | 9.9   |      | 1  | 0.13  |     | 0.75       | mg/L  |           | 03/17/2017 | 300.0    |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 3/12/2017 12:00:00 AM |
| Project:          | LB86488    | Date Received:  | 3/17/2017 12:00:00 AM |
| Client Sample ID: | BASEMENTDL | SDG No.:        | LB86488               |
| Lab Sample ID:    | I2310-01DL | Matrix:         | WATER                 |
| Level (low/med):  | low        | % Solid:        | 0                     |

| Cas | Parameter         | Conc. | Qua. | DF | MDL  | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-------------------|-------|------|----|------|-----|------------|-------|-----------|------------|----------|
|     | Bromide           | 0     | UD   | 10 | 0.66 |     | 5          | mg/L  |           | 03/17/2017 | 300.0    |
|     | Chloride          | 144   | D    | 10 | 0.75 |     | 1.5        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Fluoride          | 0     | UD   | 10 | 0.43 |     | 1          | mg/L  |           | 03/17/2017 | 300.0    |
|     | Nitrate           | 0     | UD   | 10 | 0.27 |     | 1.3        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Nitrite           | 0     | UD   | 10 | 0.22 |     | 1.5        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Phosphorus, Ortho | 0     | UD   | 10 | 0.1  |     | 2.5        | mg/L  |           | 03/17/2017 | 300.0    |
|     | Sulfate           | 22.8  | D    | 10 | 1.3  |     | 7.5        | mg/L  |           | 03/17/2017 | 300.0    |



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## Report of Analysis

|                   |            |                 |                       |
|-------------------|------------|-----------------|-----------------------|
| Client:           |            | Date Collected: | 3/12/2017 12:00:00 AM |
| Project:          | LB86488    | Date Received:  | 3/17/2017 12:00:00 AM |
| Client Sample ID: | BASEMENTDL | SDG No.:        | LB86488               |
| Lab Sample ID:    | I2310-01DL | 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:** LB86488

**SDG No.:** LB86488

**Instrument:** IC Metrohm

| 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>LB86488BLW</b> |                   | <b>WATER</b>     |                     | <b>Batch Number:</b> |             |              | <b>Prep Date:</b> |                  |                  |         |
|                   | Bromide           | 0.066            | <0.5                | U                    |             | 0.5          |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Chloride          | 0.075            | <0.15               | U                    |             | 0.15         |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Fluoride          | 0.043            | <0.1                | U                    |             | 0.1          |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Phosphorus, Ortho | 0.01             | <0.25               | U                    |             | 0.25         |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Nitrite           | 0.022            | <0.15               | U                    |             | 0.15         |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Nitrate           | 0.027            | <0.13               | U                    |             | 0.13         |                   | 03/17/2017       | 09:45            | LB86488 |
|                   | Sulfate           | 0.13             | <0.75               | U                    |             | 0.75         |                   | 03/17/2017       | 09:45            | LB86488 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB86488 level: low sdg no.: LB86488  
contract: lab code: CHEM case no.: LB86488 sas no.: LB86488  
matrix: WATER sample id: I2310-01 client id: BASEMENTMS  
Percent Solids for Sample: 0 Spiked ID: I2310-01MS Percent Solids for Spike Sample: 0

| Analyte           | Units | Acceptance<br>Limit %R | Spiked<br>Result | C  | Sample<br>Result | C  | Spike<br>Added | %<br>Recovery | Qual | M |
|-------------------|-------|------------------------|------------------|----|------------------|----|----------------|---------------|------|---|
| Bromide           | mg/L  | 80 - 120               | 24.1             |    | 0.066            | U  | 25             | 96.4          |      |   |
| Chloride          | mg/L  | 80 - 120               | 65.8             | OR | 75.3             | OR | 7.5            | -127          | *    |   |
| Fluoride          | mg/L  | 80 - 120               | 5.2              |    | 0.043            | U  | 5              | 104           |      |   |
| Phosphorus, Ortho | mg/L  | 80 - 120               | 13.8             |    | 0.01             | U  | 12.5           | 110.4         |      |   |
| Nitrite           | mg/L  | 80 - 120               | 7.4              |    | 0.022            | U  | 7.5            | 98.7          |      |   |
| Nitrate           | mg/L  | 80 - 120               | 6.3              |    | 0.59             |    | 6.25           | 91            |      |   |
| Sulfate           | mg/L  | 80 - 120               | 47.3             |    | 9.9              |    | 37.5           | 100           |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB86488      **Level:** LOW      **SDG No.:** LB86488  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86488      **SAS No.:** LB86488  
**Matrix:** WATER      **Sample ID:** I2310-01      **Client ID:** BASEMENTDUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I2310-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte           | Units | Acceptance Limit | Sample Result | C  | Duplicate Result | C  | RPD | Qual | M |
|-------------------|-------|------------------|---------------|----|------------------|----|-----|------|---|
| Bromide           | mg/L  | 20               | 0.066         | U  | 0                | U  |     |      |   |
| Chloride          | mg/L  | 20               | 75.3          | OR | 75.9             | OR | 1   |      |   |
| Fluoride          | mg/L  | 20               | 0.043         | U  | 0                | U  |     |      |   |
| Phosphorus, Ortho | mg/L  | 20               | 0.01          | U  | 0                | U  |     |      |   |
| Nitrite           | mg/L  | 20               | 0.022         | U  | 0                | U  |     |      |   |
| Nitrate           | mg/L  | 20               | 0.59          |    | 0.59             |    | 0   |      |   |
| Sulfate           | mg/L  | 20               | 9.9           |    | 9.9              |    | 0   |      |   |



## GENCHEM

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### LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86488

SDG No.: LB86488

Contract:                     

Lab Code: CHEM

Case No.: LB86488

SAS No.: LB86488

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| Analyte           | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB86488BSW        |       |            |        |   |               |                      |   |
| Bromide           | mg/L  | 25         | 24.3   |   | 97.2          | 90 - 110             |   |
| Chloride          | mg/L  | 7.5        | 7.2    |   | 96            | 90 - 110             |   |
| Fluoride          | mg/L  | 5          | 5.1    |   | 102           | 90 - 110             |   |
| Phosphorus, Ortho | mg/L  | 12.5       | 13     |   | 104           | 90 - 110             |   |
| Nitrite           | mg/L  | 7.5        | 7.5    |   | 100           | 90 - 110             |   |
| Nitrate           | mg/L  | 6.25       | 6.1    |   | 97.6          | 90 - 110             |   |
| Sulfate           | mg/L  | 37.5       | 35.8   |   | 95.5          | 90 - 110             |   |

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