

**Daily Analysis Runlog For Sequence/QC Batch ID # LB95974**

|               |            |                                                                 |        |                |         |        |
|---------------|------------|-----------------------------------------------------------------|--------|----------------|---------|--------|
| Review By     |            | Review On                                                       |        |                |         |        |
| SubDirectory  |            | LB95974                                                         |        | Test : TC      |         |        |
| STD. NAME     |            | STD REF.#                                                       |        |                |         |        |
| ICAL Standard |            | wp64486,wp64487,wp64488,wp64489,wp64490,wp64491,wp64492,wp64493 |        |                |         |        |
| ICV Standard  |            | WP64495                                                         |        |                |         |        |
| CCV Standard  |            | wp64492                                                         |        |                |         |        |
| ICSA Standard |            | N/A                                                             |        |                |         |        |
| CRI Standard  |            | N/A                                                             |        |                |         |        |
| LCS Standard  |            | WP64495                                                         |        |                |         |        |
| Chk Standard  |            | wp62726                                                         |        |                |         |        |
| Sr#           | SampleID   | ClientID                                                        | QcType | Date           | Comment | Status |
| 1             | 0.0PPM     | 0.0PPM                                                          | CAL1   | 05/15/18 11:50 |         | OK     |
| 2             | 0.5PPM     | 0.5PPM                                                          | CAL2   | 05/15/18 12:03 |         | OK     |
| 3             | 1.0PPM     | 1.0PPM                                                          | CAL3   | 05/15/18 12:16 |         | OK     |
| 4             | 2.0PPM     | 2.0PPM                                                          | CAL4   | 05/15/18 12:29 |         | OK     |
| 5             | 5.0PPM     | 5.0PPM                                                          | CAL5   | 05/15/18 12:43 |         | OK     |
| 6             | 10.0PPM    | 10.0PPM                                                         | CAL6   | 05/15/18 12:57 |         | OK     |
| 7             | 20.0PPM    | 20.0PPM                                                         | CAL7   | 05/15/18 13:12 |         | OK     |
| 8             | ICV1       | ICV1                                                            | ICV    | 05/15/18 13:28 |         | OK     |
| 9             | ICB1       | ICB1                                                            | ICB    | 05/15/18 13:41 |         | OK     |
| 10            | CCV1       | CCV1                                                            | CCV    | 06/13/18 10:06 |         | OK     |
| 11            | CCB1       | CCB1                                                            | CCB    | 06/13/18 10:25 |         | OK     |
| 12            | LB95974BLW | LB95974BLW                                                      | MB     | 06/13/18 10:41 |         | OK     |
| 13            | LB95974BSW | LB95974BSW                                                      | LCS    | 06/13/18 10:59 |         | OK     |
| 14            | J3435-01   | MW4                                                             | SAM    | 06/13/18 11:16 |         | OK     |
| 15            | J3435-06   | NW1                                                             | SAM    | 06/13/18 14:03 |         | OK     |
| 16            | J3435-07   | NW3                                                             | SAM    | 06/13/18 14:21 |         | OK     |
| 17            | J3435-04   | MW11                                                            | SAM    | 06/13/18 15:09 |         | OK     |
| 18            | J3435-05   | MW12                                                            | SAM    | 06/13/18 15:27 |         | OK     |
| 19            | J3435-02   | MW8                                                             | SAM    | 06/13/18 15:44 |         | OK     |
| 20            | J3435-08   | NW4                                                             | SAM    | 06/13/18 16:17 |         | OK     |
| 21            | J3435-03   | MW10                                                            | SAM    | 06/13/18 16:34 |         | OK     |

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|               |             |                                                                 |     |                |  |    |
|---------------|-------------|-----------------------------------------------------------------|-----|----------------|--|----|
| Review By     |             | Review On                                                       |     |                |  |    |
| SubDirectory  |             | LB95974                                                         |     | Test : TC      |  |    |
| STD. NAME     |             | STD REF.#                                                       |     |                |  |    |
| ICAL Standard |             | wp64486,wp64487,wp64488,wp64489,wp64490,wp64491,wp64492,wp64493 |     |                |  |    |
| ICV Standard  |             | WP64495                                                         |     |                |  |    |
| CCV Standard  |             | wp64492                                                         |     |                |  |    |
| ICSA Standard |             | N/A                                                             |     |                |  |    |
| CRI Standard  |             | N/A                                                             |     |                |  |    |
| LCS Standard  |             | WP64495                                                         |     |                |  |    |
| Chk Standard  |             | wp62726                                                         |     |                |  |    |
| 22            | CCV2        | CCV2                                                            | CCV | 06/13/18 16:48 |  | OK |
| 23            | CCB2        | CCB2                                                            | CCB | 06/13/18 17:13 |  | OK |
| 24            | J3435-08DUP | NW4DUP                                                          | DUP | 06/13/18 17:30 |  | OK |
| 25            | J3435-09    | NW6                                                             | SAM | 06/13/18 17:47 |  | OK |
| 26            | J3435-08MS  | NW4MS                                                           | MS  | 06/13/18 18:05 |  | OK |
| 27            | J3435-08MSD | NW4MSD                                                          | MSD | 06/13/18 18:22 |  | OK |
| 28            | CCV3        | CCV3                                                            | CCV | 06/13/18 18:49 |  | OK |
| 29            | CCB3        | CCB3                                                            | CCB | 06/13/18 19:15 |  | OK |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | MW4      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-01 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 70.4  | D    | 10 | 0.8 |     | 5          | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | MW8      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-02 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL  | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|------|-----|------------|-------|-----------|------------|----------|
|     | TC        | 16.1  | D    | 2  | 0.16 |     | 1          | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

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|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | MW10     | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-03 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 31.7  | D    | 5  | 0.4 |     | 2.5        | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

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|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | MW11     | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-04 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 25.7  | D    | 5  | 0.4 |     | 2.5        | mg/L  |           | 06/13/2018 | SM5310B  |



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| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | MW12     | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-05 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 81    | D    | 10 | 0.8 |     | 5          | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | NW1      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-06 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 114   | D    | 10 | 0.8 |     | 5          | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | NW3      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-07 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 20.1  | D    | 5  | 0.4 |     | 2.5        | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | NW4      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-08 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 20.6  | D    | 5  | 0.4 |     | 2.5        | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | NW6      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-09 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|------------|----------|
|     | TC        | 47.8  | D    | 10 | 0.8 |     | 5          | mg/L  |           | 06/13/2018 | SM5310B  |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/7/2018 12:00:00 AM  |
| Project:          | LB95974  | Date Received:  | 6/11/2018 12:00:00 AM |
| Client Sample ID: | NW6      | SDG No.:        | LB95974               |
| Lab Sample ID:    | J3435-09 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

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

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

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95974

SDG No.: LB95974

Contract: \_\_\_\_\_

Lab Code: CHEM

Case No.: LB95974

SAS No.: LB95974

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

---

| Sample ID | Analyte | Result<br>mg/L | True Value | %<br>Recovery | Qual | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| ICV1      | TC      | 10.2           | 10         | 102           |      | 90 - 110                  |   | 05/15/2018       | 13:28            | LB95974       |

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## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95974

SDG No.: LB95974

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB95974

SAS No.: LB95974

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

| Sample ID | Analyte | Result<br>mg/L | True Value | %<br>Recovery | Qual | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | TC      | 10             | 10         | 100           |      | 90 - 110                  |   | 06/13/2018       | 10:06            | LB95974       |
| CCV2      | TC      | 9.2            | 10         | 92            |      | 90 - 110                  |   | 06/13/2018       | 16:48            | LB95974       |
| CCV3      | TC      | 9.3            | 10         | 93            |      | 90 - 110                  |   | 06/13/2018       | 18:49            | LB95974       |



**GENCHEM**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB95974 **SDG No.:** LB95974  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB95974 **SAS No.:** LB95974

| 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      | TC      | 0.21           | +/-0.5              | J            |     | 0.5  |   | 05/15/2018       | 13:41            | LB95974       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95974

SDG No.: LB95974

**Contract:**

Lab Code: CHEM

**Case No.:** LB95974

**SAS No.:** LB95974

| 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      | TC      | 0.49           | +/-0.5              | J            |     |      | 0.5 | 06/13/2018       | 10:25            | LB95974       |
| CCB2      | TC      | 0.35           | +/-0.5              | J            |     |      | 0.5 | 06/13/2018       | 17:13            | LB95974       |
| CCB3      | TC      | 0.25           | +/-0.5              | J            |     |      | 0.5 | 06/13/2018       | 19:15            | LB95974       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95974

SDG No.: LB95974

Contract: Lab Code: CHEM

Case No.: LB95974

SAS No.: LB95974

| 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 |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



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

**Client:** LB95974

**SDG No.:** LB95974

**Instrument:** Appolo-9000

| 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     |
|------------|---------|------------------|---------------------|--------------------|-------------|--------------|---|--------------------------|------------------|---------|
| LB95974BLW | TC      | WATER<br>0.35    | <0.5                | Batch Number:<br>J |             | 0.5          |   | Prep Date:<br>06/13/2018 | 10:41            | LB95974 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB95974 level: low sdg no.: LB95974  
contract: lab code: CHEM case no.: LB95974 sas no.: LB95974  
matrix: WATER sample id: J3435-08 client id: NW4MS  
Percent Solids for Sample: 0 Spiked ID: J3435-08MS 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 |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| TC      | mg/L  | 75 - 125               | 26.1             |   | 20.6             | D | 10             | 55            | *    |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95974 level: low sdg no.: LB95974  
contract: lab code: CHEM case no.: LB95974 sas no.: LB95974  
matrix: WATER sample id: J3435-08 client id: NW4MSD  
Percent Solids for Sample: 0 Spiked ID: J3435-08MSD Percent Solids for Spike Sample: 0

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| TC      | mg/L  | 75 - 125               | 24.8          |   | 20.6             | D | 10             | 42            | *    |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB95974      **Level:** LOW      **SDG No.:** LB95974  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB95974      **SAS No.:** LB95974  
**Matrix:** WATER      **Sample ID:** J3435-08      **Client ID:** NW4DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J3435-08DUP      **Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| TC      | mg/L  | 20                  | 20.6             | D | 19.3                | D | 7   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB95974      **Level:** LOW      **SDG No.:** LB95974  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB95974      **SAS No.:** LB95974  
**Matrix:** WATER      **Sample ID:** J3435-08MS      **Client ID:** NW4MSD  
**Percent Solids for Sample:** 0      **Duplicate ID** J3435-08MSD      **Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| TC      | mg/L  | 20                  | 26.1             |   | 24.8                |   | 5   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95974

SDG No.: LB95974

Contract:

Lab Code: CHEM

Case No.: LB95974

SAS No.: LB95974

| Analyte          | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB95974BSW<br>TC | mg/L  | 10         | 10     |   | 100           | 90 - 110             |   |