

**Daily Analysis Runlog For Sequence/QC Batch ID # LB93293**

Review By

SubDirectory

Review On

Test :   TOC

LB93293

| STD. NAME     |  | STD REF.#                                                               |  |  |  |  |
|---------------|--|-------------------------------------------------------------------------|--|--|--|--|
| ICAL Standard |  | WP61660,WP61661,WP61662,WP61663,WP61664,WP61665,WP61666,WP61667,WP61668 |  |  |  |  |
| ICV Standard  |  | WP61669                                                                 |  |  |  |  |
| CCV Standard  |  | WP61667                                                                 |  |  |  |  |
| ICSA Standard |  | N/A                                                                     |  |  |  |  |
| CRI Standard  |  | N/A                                                                     |  |  |  |  |
| LCS Standard  |  | WP61669                                                                 |  |  |  |  |
| Chk Standard  |  | N/A                                                                     |  |  |  |  |

| Sr# | SampleID    | ClientID        | QcType | Date           | Comment | Status |
|-----|-------------|-----------------|--------|----------------|---------|--------|
| 1   | 0.0PPM      | 0.0PPM          | CAL1   | 02/09/18 09:25 |         | OK     |
| 2   | 0.5PPM      | 0.5PPM          | CAL2   | 02/09/18 09:40 |         | OK     |
| 3   | 1.0PPM      | 1.0PPM          | CAL3   | 02/09/18 09:53 |         | OK     |
| 4   | 2.0PPM      | 2.0PPM          | CAL4   | 02/09/18 10:07 |         | OK     |
| 5   | 5.0PPM      | 5.0PPM          | CAL5   | 02/09/18 10:21 |         | OK     |
| 6   | 10.0PPM     | 10.0PPM         | CAL6   | 02/09/18 10:36 |         | OK     |
| 7   | 20.0PPM     | 20.0PPM         | CAL7   | 02/09/18 10:51 |         | OK     |
| 8   | ICV1        | ICV1            | ICV    | 02/09/18 14:51 |         | OK     |
| 9   | ICB1        | ICB1            | ICB    | 02/09/18 15:05 |         | OK     |
| 10  | CCV1        | CCV1            | CCV    | 02/16/18 09:12 |         | OK     |
| 11  | CCB1        | CCB1            | CCB    | 02/16/18 09:41 |         | OK     |
| 12  | LB93293BLW  | LB93293BLW      | MB     | 02/16/18 10:07 |         | OK     |
| 13  | LB93293BSW  | LB93293BSW      | LCS    | 02/16/18 10:37 |         | OK     |
| 14  | J1161-08    | LOQ-WATER-02-QT | LOQ    | 02/16/18 11:06 |         | OK     |
| 15  | J1161-07    | LOD-MDL-WATER-0 | SAM    | 02/16/18 11:59 |         | OK     |
| 16  | J1563-06    | 20180141        | SAM    | 02/16/18 13:20 |         | OK     |
| 17  | J1161-09    | MDL-WATER-03-QT | SAM    | 02/16/18 14:11 |         | OK     |
| 18  | J1563-06MS  | 20180141MS      | MS     | 02/16/18 14:40 |         | OK     |
| 19  | J1563-06MSD | 20180141MSD     | MSD    | 02/16/18 15:09 |         | OK     |
| 20  | CCV2        | CCV2            | CCV    | 02/16/18 15:24 |         | OK     |
| 21  | CCB2        | CCB2            | CCB    | 02/16/18 15:37 |         | OK     |



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## Report of Analysis

|                   |                           |                 |                       |
|-------------------|---------------------------|-----------------|-----------------------|
| Client:           |                           | Date Collected: | 1/16/2018 12:00:00 AM |
| Project:          | LB93293                   | Date Received:  | 1/16/2018 12:00:00 AM |
| Client Sample ID: | LOD-MDL-WATER-01-QT1-2018 | SDG No.:        | LB93293               |
| Lab Sample ID:    | J1161-07                  | Matrix:         | WATER                 |
| Level (low/med):  | low                       | % Solid:        | 0                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
| 10-35-5 | TOC       | 0.31  | J    | 1  | 0.097 |     | 0.5        | mg/L  |           | 02/16/2018 | 9060     |



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## Report of Analysis

|                   |                       |                 |                       |
|-------------------|-----------------------|-----------------|-----------------------|
| Client:           |                       | Date Collected: | 1/16/2018 12:00:00 AM |
| Project:          | LB93293               | Date Received:  | 1/16/2018 12:00:00 AM |
| Client Sample ID: | MDL-WATER-03-QT1-2018 | SDG No.:        | LB93293               |
| Lab Sample ID:    | J1161-09              | Matrix:         | WATER                 |
| Level (low/med):  | low                   | % Solid:        | 0                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
| 10-35-5 | TOC       | 0.29  | J    | 1  | 0.097 |     | 0.5        | mg/L  |           | 02/16/2018 | 9060     |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 2/14/2018 12:00:00 AM |
| Project:          | LB93293  | Date Received:  | 2/14/2018 12:00:00 AM |
| Client Sample ID: | 20180141 | SDG No.:        | LB93293               |
| Lab Sample ID:    | J1563-06 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
| 10-35-5 | TOC       | 0.23  | J    | 1  | 0.097 |     | 0.5        | mg/L  |           | 02/16/2018 | 9060     |



## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 2/14/2018 12:00:00 AM |
| Project:          | LB93293  | Date Received:  | 2/14/2018 12:00:00 AM |
| Client Sample ID: | 20180141 | SDG No.:        | LB93293               |
| Lab Sample ID:    | J1563-06 | Matrix:         | WATER                 |
| Level (low/med):  | low      | % Solid:        | 0                     |

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

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: LB93293

SDG No.: LB93293

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

Case No.: LB93293

SAS No.: LB93293

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      | TOC     | 9.4            | 10         | 94            |      | 90 - 110                  |   | 02/16/2018       | 09:12            | LB93293       |
| CCV2      | TOC     | 9.7            | 10         | 97            |      | 90 - 110                  |   | 02/16/2018       | 15:24            | LB93293       |



**GENCHEM**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB93293 **SDG No.:** LB93293  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB93293 **SAS No.:** LB93293

| 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      | TOC     | 0.29           | +/-0.5              | J            |     | 0.5  |   | 02/09/2018       | 15:05            | LB93293       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB93293

SDG No.: LB93293

**Contract:**

Lab Code: CHEM

**Case No.:** LB93293

**SAS No.:** LB93293

| 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      | TOC     | 0.027          | +/-0.5              | U            |     |      | 0.5 | 02/16/2018       | 09:41            | LB93293       |
| CCB2      | TOC     | 0.24           | +/-0.5              | J            |     |      | 0.5 | 02/16/2018       | 15:37            | LB93293       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93293

SDG No.: LB93293

Contract: Lab Code: CHEM

Case No.: LB93293

SAS No.: LB93293

| 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: LB93293

SDG No.: LB93293

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     |
|------------|---------|------------------|---------------------|--------------------|-------------|--------------|---|--------------------------|------------------|---------|
| LB93293BLW | TOC     | WATER<br>0.22    | <0.5                | Batch Number:<br>J |             | 0.5          |   | Prep Date:<br>02/16/2018 | 10:07            | LB93293 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB93293 level: low sdg no.: LB93293  
contract: lab code: CHEM case no.: LB93293 sas no.: LB93293  
matrix: WATER sample id: J1563-06 client id: 20180141MS  
Percent Solids for Sample: 0 Spiked ID: J1563-06MS 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 |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| TOC     | mg/L  | 75 - 125               | 10.2             |   | 0.23             | J | 10             | 100           |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93293 level: low sdg no.: LB93293  
contract: lab code: CHEM case no.: LB93293 sas no.: LB93293  
matrix: WATER sample id: J1563-06 client id: 20180141MSD  
Percent Solids for Sample: 0 Spiked ID: J1563-06MSD 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 |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| TOC     | mg/L  | 75 - 125               | 10            |   | 0.23             | J | 10             | 98            |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB93293      **Level:** LOW      **SDG No.:** LB93293  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB93293      **SAS No.:** LB93293  
**Matrix:** WATER      **Sample ID:** J1563-06MS      **Client ID:** 20180141MSD  
**Percent Solids for Sample:** 0      **Duplicate ID** J1563-06MSD      **Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| TOC     | mg/L  | 20                  | 10.2             |   | 10                  |   | 2   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93293

SDG No.: LB93293

Contract:

Lab Code: CHEM

Case No.: LB93293

SAS No.: LB93293

| Analyte         | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-----------------|-------|------------|--------|---|---------------|----------------------|---|
| J1161-08<br>TOC | mg/L  | 1          | 1.3    |   | 130           | 50 - 150             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93293

SDG No.: LB93293

Contract:

Lab Code: CHEM

Case No.: LB93293

SAS No.: LB93293

| Analyte           | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-------------------|-------|------------|--------|---|---------------|----------------------|---|
| LB93293BSW<br>TOC | mg/L  | 10         | 9.7    |   | 97            | 90 - 110             |   |