

**Daily Analysis Runlog For Sequence/QC Batch ID # LB91832**

Review By

Review On

SubDirectory

LB91832

Test :

Reactive Cyanide

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | WP59937,WP59938,WP59939,WP59940,WP59941,WP59942,WP59943 |
| ICV Standard  | WP59945                                                 |
| CCV Standard  | WP59944                                                 |
| ICSA Standard | N/A                                                     |
| CRI Standard  | N/A                                                     |
| LCS Standard  | N/A                                                     |
| Chk Standard  | WP55836,WP55355,WP59946                                 |

| Sr# | SampleID    | ClientID        | QcType | Date           | Comment | Status |
|-----|-------------|-----------------|--------|----------------|---------|--------|
| 1   | 0.0PPBCN    | 0.0PPBCN        | CAL1   | 11/28/17 13:59 |         | OK     |
| 2   | 5.0PPBCN    | 5.0PPBCN        | CAL2   | 11/28/17 13:59 |         | OK     |
| 3   | 10PPBCN     | 10PPBCN         | CAL3   | 11/28/17 13:59 |         | OK     |
| 4   | 50PPBCN     | 50PPBCN         | CAL4   | 11/28/17 13:59 |         | OK     |
| 5   | 100PPBCN    | 100PPBCN        | CAL5   | 11/28/17 13:59 |         | OK     |
| 6   | 250PPBCN    | 250PPBCN        | CAL6   | 11/28/17 13:59 |         | OK     |
| 7   | 500PPBCN    | 500PPBCN        | CAL7   | 11/28/17 13:59 |         | OK     |
| 8   | ICV1        | ICV1            | ICV    | 11/28/17 16:15 |         | OK     |
| 9   | ICB1        | ICB1            | ICB    | 11/28/17 16:15 |         | OK     |
| 10  | CCV1        | CCV1            | CCV    | 11/28/17 16:15 |         | OK     |
| 11  | CCB1        | CCB1            | CCB    | 11/28/17 16:15 |         | OK     |
| 12  | PB104535BL  | PB104535BL      | MB     | 11/28/17 16:15 |         | OK     |
| 13  | I6299-08    | OK-03-112217    | SAM    | 11/28/17 16:15 |         | OK     |
| 14  | I6299-08DUP | OK-03-112217DUP | DUP    | 11/28/17 16:15 |         | OK     |
| 15  | I6582-02    | OILY-DEBRIS     | SAM    | 11/28/17 16:21 |         | OK     |
| 16  | I6594-02    | KUSER-CONCRETE  | SAM    | 11/28/17 16:21 |         | OK     |
| 17  | I6602-03    | ETGI-294        | SAM    | 11/28/17 16:21 |         | OK     |
| 18  | PB104536BL  | PB104536BL      | MB     | 11/28/17 16:21 |         | OK     |
| 19  | I6583-02    | OILY-WATER-1    | SAM    | 11/28/17 16:21 |         | OK     |
| 20  | I6583-02DUP | OILY-WATER-1DUP | DUP    | 11/28/17 16:21 |         | OK     |
| 21  | CCV2        | CCV2            | CCV    | 11/28/17 16:21 |         | OK     |



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Daily Analysis Runlog For Sequence/QC Batch ID # LB91832**

|                  |                                                         |                         |     |                |  |    |
|------------------|---------------------------------------------------------|-------------------------|-----|----------------|--|----|
| Review By        |                                                         | Review On               |     |                |  |    |
| SubDirectory     |                                                         | Test : Reactive Cyanide |     |                |  |    |
| LB91832          |                                                         |                         |     |                |  |    |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |                         |     |                |  |    |
| ICAL Standard    | WP59937,WP59938,WP59939,WP59940,WP59941,WP59942,WP59943 |                         |     |                |  |    |
| ICV Standard     | WP59945                                                 |                         |     |                |  |    |
| CCV Standard     | WP59944                                                 |                         |     |                |  |    |
| ICSA Standard    | N/A                                                     |                         |     |                |  |    |
| CRI Standard     | N/A                                                     |                         |     |                |  |    |
| LCS Standard     | N/A                                                     |                         |     |                |  |    |
| Chk Standard     | WP55836,WP55355,WP59946                                 |                         |     |                |  |    |
| 22               | CCB2                                                    | CCB2                    | CCB | 11/28/17 16:21 |  | OK |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 11/22/2017 12:00:00 AM |
| Project:          | LB91832      | Date Received:  | 11/22/2017 12:00:00 AM |
| Client Sample ID: | OK-03-112217 | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6299-08     | Matrix:         | Solid                  |
| Level (low/med):  | low          | % Solid:        | 100                    |

| Cas | Parameter        | Conc.   | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|---------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.0085 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 11/28/2017 | 11/28/2017 | 9012B    |



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## Report of Analysis

|                   |             |                 |                        |
|-------------------|-------------|-----------------|------------------------|
| Client:           |             | Date Collected: | 11/22/2017 12:00:00 AM |
| Project:          | LB91832     | Date Received:  | 11/22/2017 12:00:00 AM |
| Client Sample ID: | OILY-DEBRIS | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6582-02    | Matrix:         | Solid                  |
| Level (low/med):  | low         | % Solid:        | 100                    |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.011 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 11/28/2017 | 11/28/2017 | 9012B    |



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## Report of Analysis

|                   |              |                 |                        |
|-------------------|--------------|-----------------|------------------------|
| Client:           |              | Date Collected: | 11/22/2017 12:00:00 AM |
| Project:          | LB91832      | Date Received:  | 11/22/2017 12:00:00 AM |
| Client Sample ID: | OILY-WATER-1 | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6583-02     | Matrix:         | WATER                  |
| Level (low/med):  | low          | % Solid:        | 0                      |

| Cas | Parameter        | Conc.  | Qua. | DF | MDL    | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|--------|------|----|--------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.001 | U    | 1  | 0.0025 |     | 0.005      | mg/L  | 11/27/2017 | 11/28/2017 | 9012B    |



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## Report of Analysis

|                   |                |                 |                        |
|-------------------|----------------|-----------------|------------------------|
| Client:           |                | Date Collected: | 11/22/2017 12:00:00 AM |
| Project:          | LB91832        | Date Received:  | 11/22/2017 12:00:00 AM |
| Client Sample ID: | KUSER-CONCRETE | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6594-02       | Matrix:         | Solid                  |
| Level (low/med):  | low            | % Solid:        | 100                    |

| Cas | Parameter        | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.01 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 11/28/2017 | 11/28/2017 | 9012B    |



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## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 11/27/2017 12:00:00 AM |
| Project:          | LB91832  | Date Received:  | 11/27/2017 12:00:00 AM |
| Client Sample ID: | ETGI-294 | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6602-03 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 100                    |

| Cas | Parameter        | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|------------------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Reactive Cyanide | -0.01 | U    | 1  | 0.025 |     | 0.05       | mg/Kg | 11/28/2017 | 11/28/2017 | 9012B    |



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## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 11/27/2017 12:00:00 AM |
| Project:          | LB91832  | Date Received:  | 11/27/2017 12:00:00 AM |
| Client Sample ID: | ETGI-294 | SDG No.:        | LB91832                |
| Lab Sample ID:    | I6602-03 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 100                    |

| 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: LB91832

SDG No.: LB91832

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

Case No.: LB91832

SAS No.: LB91832

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

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

| Sample ID | Analyte          | Result<br>mg/L | True Value | %<br>Recovery | %<br>RSD | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|------------------|----------------|------------|---------------|----------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | Reactive Cyanide | 0.25           | 0.25       | 100           | 0        | 90 - 110                  |   | 11/28/2017       | 16:15            | LB91832       |
| CCV2      | Reactive Cyanide | 0.25           | 0.25       | 100           | 0        | 90 - 110                  |   | 11/28/2017       | 16:21            | LB91832       |



**GENCHEM**

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB91832

SDG No.: LB91832

**Contract:**

Lab Code: CHEM

**Case No.:** LB91832

**SAS No.:** LB91832

| 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      | Reactive Cyanide | -0.00048       | +/-0.005            | U            |     | 0.005 |   | 11/28/2017       | 16:15            | LB91832       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB91832

SDG No.: LB91832

**Contract:**

Lab Code: CHEM

**Case No.:** LB91832

**SAS No.:** LB91832

| 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      | Reactive Cyanide | -0.0002        | +/-0.005            | U            |     | 0.005 |   | 11/28/2017       | 16:15            | LB91832       |
| CCB2      | Reactive Cyanide | -0.00048       | +/-0.005            | U            |     | 0.005 |   | 11/28/2017       | 16:21            | LB91832       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91832

SDG No.: LB91832

Contract: Lab Code: CHEM

Case No.: LB91832

SAS No.: LB91832

| 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:** LB91832

**SDG No.:** LB91832

**Instrument:** Konelab 20

| Sample ID  | Analyte          | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual  | LOD<br>mg/Kg | CRQL<br>mg/Kg | M | Analysis<br>Date | Analysis<br>Time | Run     |
|------------|------------------|-------------------|---------------------|---------------|--------------|---------------|---|------------------|------------------|---------|
| PB104535BL | Reactive Cyanide | SOLID             |                     | Batch Number: |              | PB104535      |   | Prep Date:       | 11/28/2017       |         |
|            |                  | -0.0052           | <0.05               | U             |              | 0.05          |   | 11/28/2017       | 16:15            | LB91832 |
| 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     |
| PB104536BL | Reactive Cyanide | WATER             |                     | Batch Number: |              | PB104536      |   | Prep Date:       | 11/27/2017       |         |
|            |                  | -0.00072          | <0.005              | U             |              | 0.005         |   | 11/28/2017       | 16:21            | LB91832 |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB91832      **Level:** LOW      **SDG No.:** LB91832  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91832      **SAS No.:** LB91832  
**Matrix:** Solid      **Sample ID:** I6299-08      **Client ID:** OK-03-112217DUP  
**Percent Solids for Sample:** 100      **Duplicate ID** I6299-08DUP      **Percent Solids for Spike Sample:** 100

| Analyte          | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|------------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Reactive Cyanide | mg/Kg | 20                  | 0.025            | U | -0.0088             | U |     |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB91832      **Level:** LOW      **SDG No.:** LB91832  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB91832      **SAS No.:** LB91832  
**Matrix:** WATER      **Sample ID:** I6583-02      **Client ID:** OILY-WATER-1DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I6583-02DUP      **Percent Solids for Spike Sample:** 0

| Analyte          | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|------------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Reactive Cyanide | mg/L  | 20                  | 0.0025           | U | -0.00082            | U |     |      |   |