CHEMTECH

**Instrument ID :** KONELAB

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

## Daily Analysis Runlog For Sequence/QCBatch ID # LB95865

Review By

Review On

SubDirectory LB95865

Test : Reactive Cyanide

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP65100,WP65101,WP65102,WP65103,WP65104,WP65105,WP65106 |
| ICV Standard | WP65108 |
| CCV Standard | WP65107 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | N/A |
| Chk Standard | WP65109,WP64695,WP64696 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Status |
|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 06/07/18 10:07 | | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 06/07/18 10:07 | | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 06/07/18 10:07 | | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 06/07/18 10:07 | | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 06/07/18 10:07 | | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 06/07/18 10:07 | | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 06/07/18 10:07 | | OK |
| 8 | ICV1 | ICV1 | ICV | 06/07/18 11:18 | | OK |
| 9 | ICB1 | ICB1 | ICB | 06/07/18 11:18 | | OK |
| 10 | CCV1 | CCV1 | CCV | 06/07/18 11:18 | | OK |
| 11 | CCB1 | CCB1 | CCB | 06/07/18 11:18 | | OK |
| 12 | PB110032BL | PB110032BL | MB | 06/07/18 11:18 | | OK |
| 13 | J3252-02 | TR-04-060618 | SAM | 06/07/18 11:18 | | OK |
| 14 | J3252-02DUP | TR-04-060618DUP | DUP | 06/07/18 11:18 | | OK |
| 15 | J3344-04 | HS-YARD-1 | SAM | 06/07/18 11:18 | | OK |
| 16 | J3344-08 | HS-YARD-2 | SAM | 06/07/18 11:18 | | OK |
| 17 | J3344-12 | HS-HOUSE-WALL | SAM | 06/07/18 11:18 | | OK |
| 18 | J3352-04 | PS-SOIL | SAM | 06/07/18 11:18 | | OK |
| 19 | CCV2 | CCV2 | CCV | 06/07/18 11:21 | | OK |
| 20 | CCB2 | CCB2 | CCB | 06/07/18 11:21 | | OK |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | TR-04-060618 | SDG No.: | LB95865 |
| Lab Sample ID: | J3252-02 | 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 | -0.0095 | U | 1 | 0.025 | | 0.05 | mg/Kg | 06/07/2018 | 06/07/2018 | 9012B |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | HS-YARD-1 | SDG No.: | LB95865 |
| Lab Sample ID: | J3344-04 | 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 | 06/07/2018 | 06/07/2018 | 9012B |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | HS-YARD-2 | SDG No.: | LB95865 |
| Lab Sample ID: | J3344-08 | 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 | -0.0065 | U | 1 | 0.025 | | 0.05 | mg/Kg | 06/07/2018 | 06/07/2018 | 9012B |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | HS-HOUSE-WALL | SDG No.: | LB95865 |
| Lab Sample ID: | J3344-12 | 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 | -0.0077 | U | 1 | 0.025 | | 0.05 | mg/Kg | 06/07/2018 | 06/07/2018 | 9012B |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | PS-SOIL | SDG No.: | LB95865 |
| Lab Sample ID: | J3352-04 | 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 | -0.0077 | U | 1 | 0.025 | | 0.05 | mg/Kg | 06/07/2018 | 06/07/2018 | 9012B |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | | Date Collected: | 6/6/2018 12:00:00 AM |
| Project: | LB95865 | Date Received: | 6/6/2018 12:00:00 AM |
| Client Sample ID: | PS-SOIL | SDG No.: | LB95865 |
| Lab Sample ID: | J3352-04 | 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

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## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** LB95865 **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result mg/L | True Value | % Recovery | Qual | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICV1 | Reactive Cyanide | 0.098 | 0.099 | 99 | | 85 - 115 | | 06/07/2018 | 11:18 | lb95865 |

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# GENCHEM

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** LB95865 **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result mg/L | True Value | % Recovery | Qual | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCV1 | Reactive Cyanide | 0.25 | 0.25 | 100 | | 90 - 110 | | 06/07/2018 | 11:18 | lb95865 |
| CCV2 | Reactive Cyanide | 0.26 | 0.25 | 104 | | 90 - 110 | | 06/07/2018 | 11:21 | lb95865 |

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# GENCHEM

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95865 **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB1** | Reactive Cyanide | -0.00069 | +/-0.005 | U | | 0.005 | | 06/07/2018 | 11:18 | lb95865 |

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# GENCHEM

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95865 **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB1** | Reactive Cyanide | -0.00092 | +/-0.005 | U | | 0.005 | | 06/07/2018 | 11:18 | lb95865 |
| **CCB2** | Reactive Cyanide | -0.00095 | +/-0.005 | U | | 0.005 | | 06/07/2018 | 11:21 | lb95865 |

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# GENCHEM

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB95865 **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

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

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

**Client:** LB95865 **SDG No.:** LB95865

**Instrument:** Konelab 20

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | LOD mg/Kg | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB110032BL** | | **SOLID** | | **Batch Number:** | | **PB110032** | | **Prep Date:** | **06/07/2018** | |
| | Reactive Cyanide | -0.0036 | <0.05 | U | | 0.05 | | 06/07/2018 | 11:18 | lb95865 |

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## GENCHEM

**- 6 -**

## DUPLICATE SAMPLE SUMMARY

**Client:** LB95865 **Level:** LOW **SDG No.:** LB95865

**Contract:** **Lab Code:** CHEM **Case No.:** LB95865 **SAS No.:** LB95865

**Matrix:** Solid **Sample ID:** J3252-02 **Client ID:** TR-04-060618DUP

**Percent Solids for Sample:** 100 **Duplicate ID** J3252-02DUP **Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Reactive Cyanide | mg/Kg | 20 | 0.025 | U | -0.0044 | U | | | |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"