

## Daily Analysis Runlog For Sequence/QC Batch ID # LB89196

|               |  |                                                                 |  |                |  |  |
|---------------|--|-----------------------------------------------------------------|--|----------------|--|--|
| Review By     |  | Review On                                                       |  |                |  |  |
| SubDirectory  |  | LB89196                                                         |  | Test : Cyanide |  |  |
| STD. NAME     |  | STD REF.#                                                       |  |                |  |  |
| ICAL Standard |  | WP56861,WP56862,WP56863,WP56864,WP56865,WP56866,WP56867,WP56868 |  |                |  |  |
| ICV Standard  |  | W1541                                                           |  |                |  |  |
| CCV Standard  |  | WP56870                                                         |  |                |  |  |
| ICSA Standard |  | N/A                                                             |  |                |  |  |
| CRI Standard  |  | N/A                                                             |  |                |  |  |
| LCS Standard  |  | WP54521                                                         |  |                |  |  |
| Chk Standard  |  | WP56869,WP55355,WP55836                                         |  |                |  |  |

| Sr# | SampleID     | ClientID     | QcType | Date           | Comment | Status |
|-----|--------------|--------------|--------|----------------|---------|--------|
| 1   | 0.0PPBCN     | 0.0PPBCN     | CAL1   | 08/02/17 10:33 |         | OK     |
| 2   | 5.0PPBCN     | 5.0PPBCN     | CAL2   | 08/02/17 10:33 |         | OK     |
| 3   | 10PPBCN      | 10PPBCN      | CAL3   | 08/02/17 10:33 |         | OK     |
| 4   | 50PPBCN      | 50PPBCN      | CAL4   | 08/02/17 10:33 |         | OK     |
| 5   | 100PPBCN     | 100PPBCN     | CAL5   | 08/02/17 10:33 |         | OK     |
| 6   | 250PPBCN     | 250PPBCN     | CAL6   | 08/02/17 10:33 |         | OK     |
| 7   | 500PPBCN     | 500PPBCN     | CAL7   | 08/02/17 10:33 |         | OK     |
| 8   | ICV1         | ICV1         | ICV    | 08/02/17 11:26 |         | OK     |
| 9   | ICB1         | ICB1         | ICB    | 08/02/17 11:26 |         | OK     |
| 10  | CCV1         | CCV1         | CCV    | 08/02/17 11:26 |         | OK     |
| 11  | CCB1         | CCB1         | CCB    | 08/02/17 11:26 |         | OK     |
| 12  | PB101150BL   | PB101150BL   | MB     | 08/02/17 11:26 |         | OK     |
| 13  | PB101150BS   | PB101150BS   | LCS    | 08/02/17 11:26 |         | OK     |
| 14  | LOWPB101150  | LOWPB101150  | SAM    | 08/02/17 11:26 |         | OK     |
| 15  | HIGHPB101150 | HIGHPB101150 | SAM    | 08/02/17 11:26 |         | OK     |
| 16  | I4534-01     | 72-11938     | SAM    | 08/02/17 11:26 |         | OK     |
| 17  | I4534-01DUP  | 72-11938DUP  | DUP    | 08/02/17 11:26 |         | OK     |
| 18  | I4534-01MS   | 72-11938MS   | MS     | 08/02/17 11:26 |         | OK     |
| 19  | I4534-01MSD  | 72-11938MSD  | MSD    | 08/02/17 11:33 |         | OK     |
| 20  | I4539-01     | TP-2         | SAM    | 08/02/17 11:33 |         | OK     |
| 21  | I4539-05     | TP-5         | SAM    | 08/02/17 11:33 |         | OK     |

**Daily Analysis Runlog For Sequence/QC Batch ID # LB89196**

|               |          |                                                                |           |                |  |    |
|---------------|----------|----------------------------------------------------------------|-----------|----------------|--|----|
| Review By     |          |                                                                | Review On |                |  |    |
| SubDirectory  |          | LB89196                                                        |           | Test : Cyanide |  |    |
| STD. NAME     |          | STD REF.#                                                      |           |                |  |    |
| ICAL Standard |          | WP56861WP56862,WP56863,WP56864,WP56865,WP56866,WP56867,WP56868 |           |                |  |    |
| ICV Standard  |          | W1541                                                          |           |                |  |    |
| CCV Standard  |          | WP56870                                                        |           |                |  |    |
| ICSA Standard |          | N/A                                                            |           |                |  |    |
| CRI Standard  |          | N/A                                                            |           |                |  |    |
| LCS Standard  |          | WP54521                                                        |           |                |  |    |
| Chk Standard  |          | WP56869,WP55355,WP55836                                        |           |                |  |    |
| 22            | CCV2     | CCV2                                                           | CCV       | 08/02/17 11:33 |  | OK |
| 23            | CCB2     | CCB2                                                           | CCB       | 08/02/17 11:33 |  | OK |
| 24            | I4540-01 | 72-12003                                                       | SAM       | 08/02/17 11:33 |  | OK |
| 25            | I4540-05 | 72-12020                                                       | SAM       | 08/02/17 11:33 |  | OK |
| 26            | I4540-09 | 72-11948                                                       | SAM       | 08/02/17 11:33 |  | OK |
| 27            | I4540-13 | 72-11942                                                       | SAM       | 08/02/17 11:33 |  | OK |
| 28            | I4540-17 | VNJ-221                                                        | SAM       | 08/02/17 11:33 |  | OK |
| 29            | I4540-21 | 348                                                            | SAM       | 08/02/17 11:33 |  | OK |
| 30            | I4541-01 | VNJ-220                                                        | SAM       | 08/02/17 11:41 |  | OK |
| 31            | I4541-05 | 72-11936                                                       | SAM       | 08/02/17 11:41 |  | OK |
| 32            | I4541-09 | VNJ-229                                                        | SAM       | 08/02/17 11:41 |  | OK |
| 33            | I4541-13 | 72-11944                                                       | SAM       | 08/02/17 11:41 |  | OK |
| 34            | CCV3     | CCV3                                                           | CCV       | 08/02/17 11:41 |  | OK |
| 35            | CCB3     | CCB3                                                           | CCB       | 08/02/17 11:41 |  | OK |
| 36            | I4542-01 | A4129                                                          | SAM       | 08/02/17 11:41 |  | OK |
| 37            | I4543-01 | HR-05-073117-A                                                 | SAM       | 08/02/17 11:41 |  | OK |
| 38            | I4543-04 | HR-05-073117-B                                                 | SAM       | 08/02/17 11:41 |  | OK |
| 39            | I4543-07 | HR-05-073117-C                                                 | SAM       | 08/02/17 11:41 |  | OK |
| 40            | CCV4     | CCV4                                                           | CCV       | 08/02/17 11:41 |  | OK |
| 41            | CCB4     | CCB4                                                           | CCB       | 08/02/17 11:45 |  | OK |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |              |                 |         |
|-------------------|--------------|-----------------|---------|
| Client:           |              | Date Collected: |         |
| Project:          | LB89196      | Date Received:  |         |
| Client Sample ID: | HIGHPB101150 | SDG No.:        | LB89196 |
| Lab Sample ID:    | HIGHPB101150 | Matrix:         | WATER   |
| Level (low/med):  | low          | % Solid:        | 0       |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
| 57-12-5 | Cyanide   | 0.48  |      | 1  | 0.003 |     | 0.005      | mg/L  |           | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-11938 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4534-01 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 85.2                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.11  | J    | 1  | 0.038 |     | 0.28       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | TP-2     | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4539-01 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 88                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.051 | J    | 1  | 0.036 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | TP-5     | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4539-05 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 87                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.066 | J    | 1  | 0.036 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |

**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-12003 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-01 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 89.4                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.1   | J    | 1  | 0.035 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-12020 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-05 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 92.5                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.054 | J    | 1  | 0.035 |     | 0.26       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-11948 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-09 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 90.2                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.12  | J    | 1  | 0.035 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-11942 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-13 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 91.8                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.089 | J    | 1  | 0.035 |     | 0.26       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | VNJ-221  | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-17 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 89.3                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.22  | J    | 1  | 0.036 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 348      | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4540-21 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 88.3                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.41  |      | 1  | 0.036 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | VNJ-220  | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4541-01 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 92.2                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.49  |      | 1  | 0.034 |     | 0.26       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-11936 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4541-05 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 89.6                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 1.1   |      | 1  | 0.036 |     | 0.27       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | VNJ-229  | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4541-09 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 91.7                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.4   |      | 1  | 0.035 |     | 0.26       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |

**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | 72-11944 | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4541-13 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 93.9                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.22  | J    | 1  | 0.034 |     | 0.26       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196  | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | A4129    | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4542-01 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 28.2                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL  | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.26  | J    | 1  | 0.11 |     | 0.87       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |                |                 |                       |
|-------------------|----------------|-----------------|-----------------------|
| Client:           |                | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196        | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | HR-05-073117-A | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4543-01       | Matrix:         | Solid                 |
| Level (low/med):  | low            | % Solid:        | 97.7                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.28  |      | 1  | 0.033 |     | 0.25       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |                |                 |                       |
|-------------------|----------------|-----------------|-----------------------|
| Client:           |                | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196        | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | HR-05-073117-B | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4543-04       | Matrix:         | Solid                 |
| Level (low/med):  | low            | % Solid:        | 96                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.14  | J    | 1  | 0.033 |     | 0.25       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |                |                 |                       |
|-------------------|----------------|-----------------|-----------------------|
| Client:           |                | Date Collected: | 7/31/2017 12:00:00 AM |
| Project:          | LB89196        | Date Received:  | 7/31/2017 12:00:00 AM |
| Client Sample ID: | HR-05-073117-C | SDG No.:        | LB89196               |
| Lab Sample ID:    | I4543-07       | Matrix:         | Solid                 |
| Level (low/med):  | low            | % Solid:        | 96.7                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.072 | J    | 1  | 0.032 |     | 0.24       | mg/Kg | 08/01/2017 | 08/02/2017 | 9012B    |



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |             |                 |         |
|-------------------|-------------|-----------------|---------|
| Client:           |             | Date Collected: |         |
| Project:          | LB89196     | Date Received:  |         |
| Client Sample ID: | LOWPB101150 | SDG No.:        | LB89196 |
| Lab Sample ID:    | LOWPB101150 | Matrix:         | WATER   |
| Level (low/med):  | low         | % Solid:        | 0       |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|-----------|------------|----------|
| 57-12-5 | Cyanide   | 0.011 |      | 1  | 0.003 |     | 0.005      | mg/L  |           | 08/02/2017 | 9012B    |



## Report of Analysis

|                   |             |                 |         |
|-------------------|-------------|-----------------|---------|
| Client:           |             | Date Collected: |         |
| Project:          | LB89196     | Date Received:  |         |
| Client Sample ID: | LOWPB101150 | SDG No.:        | LB89196 |
| Lab Sample ID:    | LOWPB101150 | 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: LB89196

SDG No.: LB89196

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

Case No.: LB89196

SAS No.: LB89196

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      | Cyanide | 0.24           | 0.25       | 96            | 0        | 90 - 110                  |   | 08/02/2017       | 11:26            | LB89196       |
| CCV2      | Cyanide | 0.24           | 0.25       | 96            | 0        | 90 - 110                  |   | 08/02/2017       | 11:33            | LB89196       |
| CCV3      | Cyanide | 0.24           | 0.25       | 96            | 0        | 90 - 110                  |   | 08/02/2017       | 11:41            | LB89196       |
| CCV4      | Cyanide | 0.24           | 0.25       | 96            | 0        | 90 - 110                  |   | 08/02/2017       | 11:41            | LB89196       |



**GENCHEM**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB89196 **SDG No.:** LB89196  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB89196 **SAS No.:** LB89196

| 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      | Cyanide | 0.001          | +/-0.005            | U            |     | 0.005 |   | 08/02/2017       | 11:26            | LB89196       |

| 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      | Cyanide | 0.00072        | +/-0.005            | U            |     | 0.005 |   | 08/02/2017       | 11:26            | LB89196       |
| CCB2      | Cyanide | 0.00061        | +/-0.005            | U            |     | 0.005 |   | 08/02/2017       | 11:33            | LB89196       |
| CCB3      | Cyanide | 0.001          | +/-0.005            | U            |     | 0.005 |   | 08/02/2017       | 11:41            | LB89196       |
| CCB4      | Cyanide | 0.00073        | +/-0.005            | U            |     | 0.005 |   | 08/02/2017       | 11:45            | LB89196       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89196

SDG No.: LB89196

Contract: Lab Code: CHEM

Case No.: LB89196

SAS No.: LB89196

| 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:** LB89196

**SDG No.:** LB89196

**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     |
|-------------------|---------|-------------------|---------------------|----------------------|--------------|-----------------|---|-------------------|-------------------|---------|
| <b>PB101150BL</b> |         | <b>SOLID</b>      |                     | <b>Batch Number:</b> |              | <b>PB101150</b> |   | <b>Prep Date:</b> | <b>08/01/2017</b> |         |
|                   | Cyanide | 0.035             | <0.24               | J                    |              | 0.24            |   | 08/02/2017        | 11:26             | LB89196 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB89196 level: low sdg no.: LB89196  
contract: lab code: CHEM case no.: LB89196 sas no.: LB89196  
matrix: Solid sample id: I4534-01 client id: 72-11938MS  
Percent Solids for Sample: 85.2 Spiked ID: I4534-01MS Percent Solids for Spike Sample: 85.2

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Cyanide | mg/Kg | 75 - 125               | 2.1              |   | 0.11             | J | 2.3            | 87            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89196 level: low sdg no.: LB89196  
contract: lab code: CHEM case no.: LB89196 sas no.: LB89196  
matrix: Solid sample id: I4534-01 client id: 72-11938MSD  
Percent Solids for Sample: 85.2 Spiked ID: I4534-01MSD Percent Solids for Spike Sample: 85.2

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Cyanide | mg/Kg | 75 - 125               |               | 2 | 0.11             | J | 2.3            | 82            |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB89196      **Level:** LOW      **SDG No.:** LB89196  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB89196      **SAS No.:** LB89196  
**Matrix:** Solid      **Sample ID:** I4534-01      **Client ID:** 72-11938DUP  
**Percent Solids for Sample:** 85.2      **Duplicate ID** I4534-01DUP      **Percent Solids for Spike Sample:** 85.2

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20                  | 0.11             | J | 0.081               | J | 30  | *    |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB89196      **Level:** LOW      **SDG No.:** LB89196  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB89196      **SAS No.:** LB89196  
**Matrix:** Solid      **Sample ID:** I4534-01MS      **Client ID:** 72-11938MSD  
**Percent Solids for Sample:** 85.2      **Duplicate ID** I4534-01MSD      **Percent Solids for Spike Sample:** 85.2

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20                  | 2.1              |   |                     | 2 | 5   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89196

SDG No.: LB89196

Contract:

Lab Code: CHEM

Case No.: LB89196

SAS No.: LB89196

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-----------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB101150BS<br>Cyanide | mg/Kg | 4.9        | 4.7    |   | 95.9          | 85 - 115             |   |