

**Daily Analysis Runlog For Sequence/QC Batch ID # LB96092**

Review By

Review On

SubDirectory

LB96092

Test :

Cyanide

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | WP65378,WP65379,WP65380,WP65381,WP65382,WP65383,WP65384 |
| ICV Standard  | W1542                                                   |
| CCV Standard  | WP65385                                                 |
| ICSA Standard | N/A                                                     |
| CRI Standard  | N/A                                                     |
| LCS Standard  | WP62802                                                 |
| Chk Standard  | WP65387,WP64695,WP64696                                 |

| Sr# | SampleId     | ClientID        | QcType | Date           | Comment | Status |
|-----|--------------|-----------------|--------|----------------|---------|--------|
| 1   | 0.0PPBCN     | 0.0PPBCN        | CAL1   | 06/18/18 13:31 |         | OK     |
| 2   | 5.0PPBCN     | 5.0PPBCN        | CAL2   | 06/18/18 13:31 |         | OK     |
| 3   | 10PPBCN      | 10PPBCN         | CAL3   | 06/18/18 13:31 |         | OK     |
| 4   | 50PPBCN      | 50PPBCN         | CAL4   | 06/18/18 13:31 |         | OK     |
| 5   | 100PPBCN     | 100PPBCN        | CAL5   | 06/18/18 13:31 |         | OK     |
| 6   | 250PPBCN     | 250PPBCN        | CAL6   | 06/18/18 13:31 |         | OK     |
| 7   | 500PPBCN     | 500PPBCN        | CAL7   | 06/18/18 13:31 |         | OK     |
| 8   | ICV1         | ICV1            | ICV    | 06/18/18 16:07 |         | OK     |
| 9   | ICB1         | ICB1            | ICB    | 06/18/18 16:07 |         | OK     |
| 10  | CCV1         | CCV1            | CCV    | 06/18/18 16:07 |         | OK     |
| 11  | CCB1         | CCB1            | CCB    | 06/18/18 16:07 |         | OK     |
| 12  | PB110333BL   | PB110333BL      | MB     | 06/18/18 16:07 |         | OK     |
| 13  | PB110333BS   | PB110333BS      | LCS    | 06/18/18 16:07 |         | OK     |
| 14  | LOWPB110333  | LOWPB110333     | SAM    | 06/18/18 16:07 |         | OK     |
| 15  | HIGHPB110333 | HIGHPB110333    | SAM    | 06/18/18 16:07 |         | OK     |
| 16  | J3240-03     | BU-01-061518    | SAM    | 06/18/18 16:07 |         | OK     |
| 17  | J3240-03DUP  | BU-01-061518DUP | DUP    | 06/18/18 16:07 |         | OK     |
| 18  | J3240-03MS   | BU-01-061518MS  | MS     | 06/18/18 16:07 |         | OK     |
| 19  | J3240-03MSD  | BU-01-061518MSD | MSD    | 06/18/18 16:14 |         | OK     |
| 20  | J3244-01     | HD-01-061518    | SAM    | 06/18/18 16:14 |         | OK     |
| 21  | J3538-01     | SS-T-4-STONE    | SAM    | 06/18/18 16:14 |         | OK     |

**Daily Analysis Runlog For Sequence/QC Batch ID # LB96092**

|               |             |                                                         |     |                |  |    |
|---------------|-------------|---------------------------------------------------------|-----|----------------|--|----|
| Review By     |             | Review On                                               |     |                |  |    |
| SubDirectory  |             | LB96092                                                 |     | Test : Cyanide |  |    |
| STD. NAME     |             | STD REF.#                                               |     |                |  |    |
| ICAL Standard |             | WP65378,WP65379,WP65380,WP65381,WP65382,WP65383,WP65384 |     |                |  |    |
| ICV Standard  |             | W1542                                                   |     |                |  |    |
| CCV Standard  |             | WP65385                                                 |     |                |  |    |
| ICSA Standard |             | N/A                                                     |     |                |  |    |
| CRI Standard  |             | N/A                                                     |     |                |  |    |
| LCS Standard  |             | WP62802                                                 |     |                |  |    |
| Chk Standard  |             | WP65387,WP64695,WP64696                                 |     |                |  |    |
| 22            | CCV2        | CCV2                                                    | CCV | 06/18/18 16:14 |  | OK |
| 23            | CCB2        | CCB2                                                    | CCB | 06/18/18 16:14 |  | OK |
| 24            | J3538-07    | SS-T-5-STONE                                            | SAM | 06/18/18 16:14 |  | OK |
| 25            | J3551-04    | OILY-SOIL                                               | SAM | 06/18/18 16:14 |  | OK |
| 26            | J3566-03    | TP-8-S                                                  | SAM | 06/18/18 16:14 |  | OK |
| 27            | J3566-07    | TP-8-D                                                  | SAM | 06/18/18 16:14 |  | OK |
| 28            | J3566-11    | TP-7                                                    | SAM | 06/18/18 16:14 |  | OK |
| 29            | J3566-15    | TP-6-S                                                  | SAM | 06/18/18 16:14 |  | OK |
| 30            | J3566-19    | TP-6-D                                                  | SAM | 06/18/18 16:22 |  | OK |
| 31            | PB110342BL  | PB110342BL                                              | MB  | 06/18/18 16:22 |  | OK |
| 32            | PB110342BS  | PB110342BS                                              | LCS | 06/18/18 16:22 |  | OK |
| 33            | J3532-01    | OILY-WATER-DRUM                                         | SAM | 06/18/18 16:22 |  | OK |
| 34            | CCV3        | CCV3                                                    | CCV | 06/18/18 16:22 |  | OK |
| 35            | CCB3        | CCB3                                                    | CCB | 06/18/18 16:22 |  | OK |
| 36            | J3532-01DUP | OILY-WATER-DRUM                                         | DUP | 06/18/18 16:22 |  | OK |
| 37            | J3532-01MS  | OILY-WATER-DRUM                                         | MS  | 06/18/18 16:22 |  | OK |
| 38            | J3532-01MSD | OILY-WATER-DRUM                                         | MSD | 06/18/18 16:22 |  | OK |
| 39            | PB110341BL  | PB110341BL                                              | MB  | 06/18/18 16:22 |  | OK |
| 40            | PB110341BS  | PB110341BS                                              | LCS | 06/18/18 16:22 |  | OK |
| 41            | J3567-03    | TP-5-S                                                  | SAM | 06/18/18 16:29 |  | OK |
| 42            | J3567-03DUP | TP-5-SDUP                                               | DUP | 06/18/18 16:29 |  | OK |
| 43            | J3567-03MS  | TP-5-SMS                                                | MS  | 06/18/18 16:29 |  | OK |

**Daily Analysis Runlog For Sequence/QC Batch ID # LB96092**

|                  |             |                                                         |     |                |  |    |
|------------------|-------------|---------------------------------------------------------|-----|----------------|--|----|
| Review By        |             | Review On                                               |     |                |  |    |
| SubDirectory     |             | Test : Cyanide                                          |     |                |  |    |
| LB96092          |             |                                                         |     |                |  |    |
| <b>STD. NAME</b> |             | <b>STD REF.#</b>                                        |     |                |  |    |
| ICAL Standard    |             | WP65378,WP65379,WP65380,WP65381,WP65382,WP65383,WP65384 |     |                |  |    |
| ICV Standard     |             | W1542                                                   |     |                |  |    |
| CCV Standard     |             | WP65385                                                 |     |                |  |    |
| ICSA Standard    |             | N/A                                                     |     |                |  |    |
| CRI Standard     |             | N/A                                                     |     |                |  |    |
| LCS Standard     |             | WP62802                                                 |     |                |  |    |
| Chk Standard     |             | WP65387,WP64695,WP64696                                 |     |                |  |    |
| 44               | J3567-03MSD | TP-5-SMSD                                               | MSD | 06/18/18 16:29 |  | OK |
| 45               | J3567-07    | TP-5-D                                                  | SAM | 06/18/18 16:29 |  | OK |
| 46               | CCV4        | CCV4                                                    | CCV | 06/18/18 16:30 |  | OK |
| 47               | CCB4        | CCB4                                                    | CCB | 06/18/18 16:30 |  | OK |
| 48               | J3567-11    | TP-11-S                                                 | SAM | 06/18/18 16:30 |  | OK |
| 49               | CCV5        | CCV5                                                    | CCV | 06/18/18 16:30 |  | OK |
| 50               | CCB5        | CCB5                                                    | CCB | 06/18/18 16:30 |  | OK |



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## Report of Analysis

|                   |              |                 |         |
|-------------------|--------------|-----------------|---------|
| Client:           |              | Date Collected: |         |
| Project:          | LB96092      | Date Received:  |         |
| Client Sample ID: | HIGHPB110333 | SDG No.:        | LB96092 |
| Lab Sample ID:    | HIGHPB110333 | 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   | 0.49  |      | 1  | 0.003 |     | 0.005      | mg/L  |           | 06/18/2018 | 9012B    |

**Report of Analysis**

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092      | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | BU-01-061518 | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3240-03     | 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   | 0.087 | J    | 1  | 0.036 |     | 0.27       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092      | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | HD-01-061518 | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3244-01     | Matrix:         | Solid                 |
| Level (low/med):  | low          | % Solid:        | 84.1                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.047 | J    | 1  | 0.039 |     | 0.29       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |                      |                 |                       |
|-------------------|----------------------|-----------------|-----------------------|
| Client:           |                      | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092              | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | OILY-WATER-DRUMS-1-2 | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3532-01             | Matrix:         | WATER                 |
| Level (low/med):  | low                  | % Solid:        | 0                     |

| Cas     | Parameter | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.0052 |      | 1  | 0.003 |     | 0.005      | mg/L  | 06/18/2018 | 06/18/2018 | 9012B    |

**Report of Analysis**

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092      | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | SS-T-4-STONE | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3538-01     | Matrix:         | Solid                 |
| Level (low/med):  | low          | % Solid:        | 100                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.039 | J    | 1  | 0.032 |     | 0.25       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |





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## Report of Analysis

|                   |              |                 |                       |
|-------------------|--------------|-----------------|-----------------------|
| Client:           |              | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092      | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | SS-T-5-STONE | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3538-07     | Matrix:         | Solid                 |
| Level (low/med):  | low          | % Solid:        | 100                   |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.014 | U    | 1  | 0.031 |     | 0.24       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |           |                 |                       |
|-------------------|-----------|-----------------|-----------------------|
| Client:           |           | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092   | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | OILY-SOIL | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3551-04  | Matrix:         | Solid                 |
| Level (low/med):  | low       | % Solid:        | 83                    |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.035 | U    | 1  | 0.039 |     | 0.29       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |

**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/14/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-8-S   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3566-03 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 86.8                  |

| Cas     | Parameter | Conc.  | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|--------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.0041 | U    | 1  | 0.037 |     | 0.28       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/14/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-8-D   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3566-07 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 86.1                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.04  | J    | 1  | 0.038 |     | 0.28       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/14/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-7     | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3566-11 | 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   | 0.063 | J    | 1  | 0.038 |     | 0.29       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/14/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-6-S   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3566-15 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 83.8                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.022 | U    | 1  | 0.038 |     | 0.28       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |

**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/14/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-6-D   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3566-19 | 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   | 0.029 | U    | 1  | 0.035 |     | 0.26       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-5-S   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3567-03 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 92.8                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.022 | U    | 1  | 0.035 |     | 0.26       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-5-D   | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3567-07 | 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   | 0.06  | J    | 1  | 0.035 |     | 0.27       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |

**Report of Analysis**

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 6/15/2018 12:00:00 AM |
| Project:          | LB96092  | Date Received:  | 6/15/2018 12:00:00 AM |
| Client Sample ID: | TP-11-S  | SDG No.:        | LB96092               |
| Lab Sample ID:    | J3567-11 | Matrix:         | Solid                 |
| Level (low/med):  | low      | % Solid:        | 85.6                  |

| Cas     | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|---------|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
| 57-12-5 | Cyanide   | 0.061 | J    | 1  | 0.038 |     | 0.29       | mg/Kg | 06/18/2018 | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |             |                 |         |
|-------------------|-------------|-----------------|---------|
| Client:           |             | Date Collected: |         |
| Project:          | LB96092     | Date Received:  |         |
| Client Sample ID: | LOWPB110333 | SDG No.:        | LB96092 |
| Lab Sample ID:    | LOWPB110333 | 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   | 0.01  |      | 1  | 0.003 |     | 0.005      | mg/L  |           | 06/18/2018 | 9012B    |



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## Report of Analysis

|                   |             |                 |         |
|-------------------|-------------|-----------------|---------|
| Client:           |             | Date Collected: |         |
| Project:          | LB96092     | Date Received:  |         |
| Client Sample ID: | LOWPB110333 | SDG No.:        | LB96092 |
| Lab Sample ID:    | LOWPB110333 | 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

| 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      | Cyanide | 0.097          | 0.099      | 98            |      | 85 - 115                  |   | 06/18/2018       | 16:07            | LB96092       |



## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96092

SDG No.: LB96092

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

Case No.: LB96092

SAS No.: LB96092

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      | Cyanide | 0.24           | 0.25       | 96            |      | 90 - 110                  |   | 06/18/2018       | 16:07            | LB96092       |
| CCV2      | Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/18/2018       | 16:14            | LB96092       |
| CCV3      | Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/18/2018       | 16:22            | LB96092       |
| CCV4      | Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/18/2018       | 16:30            | LB96092       |
| CCV5      | Cyanide | 0.25           | 0.25       | 100           |      | 90 - 110                  |   | 06/18/2018       | 16:30            | LB96092       |



**GENCHEM**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB96092 **SDG No.:** LB96092  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB96092 **SAS No.:** LB96092

| 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 | 0.00056        | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:07            | LB96092       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB96092

SDG No.: LB96092

**Contract:**

**Lab Code:** CHEM

**Case No.:** LB96092

**SAS No.:** LB96092

| 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             | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:07            | LB96092       |
| CCB2      | Cyanide | -0.00019       | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:14            | LB96092       |
| CCB3      | Cyanide | 0.00033        | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:22            | LB96092       |
| CCB4      | Cyanide | 0.00065        | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:30            | LB96092       |
| CCB5      | Cyanide | 0.00071        | +/-0.005            | U            |     | 0.005 |   | 06/18/2018       | 16:30            | LB96092       |





GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96092

SDG No.: LB96092

Contract: Lab Code: CHEM

Case No.: LB96092

SAS No.: LB96092

| 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:** LB96092

**SDG No.:** LB96092

**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     |
|------------|---------|-------------------|---------------------|---------------|--------------|---------------|---|------------------|------------------|---------|
| PB110333BL | Cyanide | SOLID             |                     | Batch Number: |              | PB110333      |   | Prep Date:       | 06/18/2018       |         |
|            |         | -0.0057           | <0.24               | U             |              | 0.24          |   | 06/18/2018       | 16:07            | LB96092 |
| 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     |
| PB110341BL | Cyanide | SOLID             |                     | Batch Number: |              | PB110341      |   | Prep Date:       | 06/18/2018       |         |
|            |         | 0.012             | <0.24               | U             |              | 0.24          |   | 06/18/2018       | 16:22            | LB96092 |
| 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     |
| PB110342BL | Cyanide | WATER             |                     | Batch Number: |              | PB110342      |   | Prep Date:       | 06/18/2018       |         |
|            |         | 0.00029           | <0.005              | U             |              | 0.005         |   | 06/18/2018       | 16:22            | LB96092 |

GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: Solid sample id: J3240-03 client id: BU-01-061518MS  
Percent Solids for Sample: 89.4 Spiked ID: J3240-03MS Percent Solids for Spike Sample: 89.4

| 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               | 2.3              |   | 0.087            | J | 2.2            | 101           |      |   |

GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: Solid sample id: J3240-03 client id: BU-01-061518MSD  
Percent Solids for Sample: 89.4 Spiked ID: J3240-03MSD Percent Solids for Spike Sample: 89.4

| 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               | 2.3           |   | 0.087            | J | 2.2            | 101           |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: WATER sample id: J3532-01 client id: OILY-WATER-DRUMS-1-2MS  
Percent Solids for Sample: 0 Spiked ID: J3532-01MS 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 |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Cyanide | mg/L  | 75 - 125               | 0.044            |   | 0.0052           |   | 0.04           | 97            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: WATER sample id: J3532-01 client id: OILY-WATER-DRUMS-1-2MSD  
Percent Solids for Sample: 0 Spiked ID: J3532-01MSD 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 |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Cyanide | mg/L  | 75 - 125               | 0.044         |   | 0.0052           |   | 0.04           | 97            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: Solid sample id: J3567-03 client id: TP-5-SMS  
Percent Solids for Sample: 92.8 Spiked ID: J3567-03MS Percent Solids for Spike Sample: 92.8

| 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               | 1.9              |   | 0.035            | U | 2.1            | 90.5          |      |   |

GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96092 level: low sdg no.: LB96092  
contract: lab code: CHEM case no.: LB96092 sas no.: LB96092  
matrix: Solid sample id: J3567-03 client id: TP-5-SMSD  
Percent Solids for Sample: 92.8 Spiked ID: J3567-03MSD Percent Solids for Spike Sample: 92.8

| 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               | 1.9           |   | 0.035            | U | 2.1            | 90.5          |      |   |



# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** Solid      **Sample ID:** J3240-03      **Client ID:** BU-01-061518DUP  
**Percent Solids for Sample:** 89.4      **Duplicate ID** J3240-03DUP      **Percent Solids for Spike Sample:** 89.4

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20               | 0.087         | J | 0.048            | J | 58  | *    |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** Solid      **Sample ID:** J3240-03MS      **Client ID:** BU-01-061518MSD  
**Percent Solids for Sample:** 89.4      **Duplicate ID** J3240-03MSD      **Percent Solids for Spike Sample:** 89.4

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20                  | 2.3              |   | 2.3                 |   | 0   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** WATER      **Sample ID:** J3532-01      **Client ID:** OILY-WATER-DRUMS-1-2DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J3532-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/L  | 20                  | 0.0052           |   | 0.0053              |   | 2   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** WATER      **Sample ID:** J3532-01MS      **Client ID:** OILY-WATER-DRUMS-1-2MSD  
**Percent Solids for Sample:** 0      **Duplicate ID** J3532-01MSD      **Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/L  | 20                  | 0.044            |   | 0.044               |   | 0   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** Solid      **Sample ID:** J3567-03      **Client ID:** TP-5-SDUP  
**Percent Solids for Sample:** 92.8      **Duplicate ID** J3567-03DUP      **Percent Solids for Spike Sample:** 92.8

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20                  | 0.035            | U | 0.0065              | U |     |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB96092      **Level:** LOW      **SDG No.:** LB96092  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB96092      **SAS No.:** LB96092  
**Matrix:** Solid      **Sample ID:** J3567-03MS      **Client ID:** TP-5-SMSD  
**Percent Solids for Sample:** 92.8      **Duplicate ID** J3567-03MSD      **Percent Solids for Spike Sample:** 92.8

| Analyte | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|---------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Cyanide | mg/Kg | 20                  | 1.9              |   | 1.9                 |   | 0   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96092

SDG No.: LB96092

Contract:

Lab Code: CHEM

Case No.: LB96092

SAS No.: LB96092

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-----------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB110333BS<br>Cyanide | mg/Kg | 4.9        | 4.8    |   | 98            | 85 - 115             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96092

SDG No.: LB96092

Contract:

Lab Code: CHEM

Case No.: LB96092

SAS No.: LB96092

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-----------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB110341BS<br>Cyanide | mg/Kg | 4.9        | 4.8    |   | 98            | 85 - 115             |   |





GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96092

SDG No.: LB96092

Contract:

Lab Code: CHEM

Case No.: LB96092

SAS No.: LB96092

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-----------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB110342BS<br>Cyanide | mg/L  | 0.1        | 0.098  |   | 98            | 85 - 115             |   |