

| South Canyon<br>B-12<br><br>REM# 9341     | COGCC<br>Table 915-1<br>Threshold<br><br>(RSS Level) | SPILL AREA INVESTIGATION |                  |           | INITIAL INVESTIGATION & MONITORING (2015-2018) |          |           |           |           |           |           |           |           |           |          |           |                          |        |           |           |           |           |        |        |       |           | REMEDIAION MONITORING |        |      |         |         |          |         |          |         |          |         |  |
|---|--|--------------------------|------------------|-----------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|--------------------------|--------|-----------|-----------|-----------|-----------|--------|--------|-------|-----------|-----------------------|--------|------|---------|---------|----------|---------|----------|---------|----------|---------|--|
|   |  | Lab ID                   |                  |           |  |          |           |           |           |           |           |           |           |           |          |           |                          |        |           |           |           |           |        |        |       |           | Lab ID: L1383017      |        |      |         |         |          |         |          |         |          |         |  |
|   |  | Prod Water<br>N          | Prod Water<br>NW | TB - POR  | SB-N-03  | SB-NW-03 | SB-W-01   |           |           | SB-W-02   | SB-W-03   | SB-S-03   | SB-E-01   | SB-EE-02  | Pit N-01 |           | Pit N-02                 |        | Pit S-01  |           |           | Pit S-02  |        | SVE-NW |       |           |                       | SVE-NW |      |         |         | Pit S-02 |         | Pit-N-02 | SB-W-01 |          |         |  |
|   |  | 8/30/2012                | 7/15/2015        | 7/16/2015 | 7/17/2015                                      |          | 4/26/2018 | 7/17/2015 | 7/18/2015 | 7/16/2015 | 7/18/2015 | 7/15/2015 | 7/13/2015 | 7/16/2015 |          | 4/26/2018 | 7/13/2015 -<br>7/14/2015 |        | 4/26/2018 | 7/14/2015 | 4/26/2018 | 4/26/2018 |        |        |       | 7/15/2021 |                       |        |      |         |         |          |         |          |         |          |         |  |
|   |  | 0-6"                     | 0-6"             | 70-71'    | 45-46'   | 50-52'   | 15-17'    | 40-42'    | 15'       | 40-42'    | 40-42'    | 70-72'    | 70-72'    | 50'       | 5-7'     | 50-52'    | 30-32'                   | 50-52' | 30'       | 10-12'    | 75-77'    | 10'       | 35-37' | 60-62' | 35'   | 10'       | 20'                   | 30'    | 40'  | 10'-12' | 20'-23' | 30-32'   | 40'-42' | 10'-12'  | 35'-37' | 30'- 32' | 15'-17' |  |
| GRO (C6-C10)                              | 500  | ND                       | ND               | ND        | ND   | ND       | 3,400     | ND        | 3,910     | ND        | ND        | ND        | ND        | 2,000     | 5.1      | 2,500     | 69                       | 11,200 | 1,800     | 13        | 8,450     | 1900      | 1      | 1160   | 1,060 | 7,340     | 1,690                 | 2,690  | 498  | 1,360   | 6,430   | 4,090    | 0.33    | 3,430    | 2,970   | 35.8     |         |  |
| DRO (C10-C28)                             |  | ND                       | ND               | ND        | ND   | ND       | 4,500     | ND        | 1,570     | ND        | ND        | ND        | ND        | ND        | 1,900    | 6         | 1,500                    | 4.8    | 1,890     | 3,900     | ND        | 1,570     | 1000   | 10     | 588   | 128       | 5,610                 | 850    | 800  | 368     | 1,360   | 1,460    | 1,730   | 12.5     | 162     | 608      | 10.2    |  |
| ORO (C28-C36)                             |  | -                        | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | -         | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | 12      | 17.6    | 8.89     | 12.1    | 26.4     | ND      | 6.88     | 4.33    |  |
| BENZENE                                   | 1.2  | ND                       | ND               | ND        | ND   | ND       | 1.4       | ND        | 2.48      | ND        | ND        | ND        | ND        | ND        | 0.81     | 0.019     | 1                        | ND     | 9.07      | 0.34      | 0.13      | 15.4      | 0.59   | ND     | 0.891 | 2.08      | 20.8                  | 3.14   | 6.11 | ND      | 0.147   | 4.62     | 2.63    | 0.0022   | 4.95    | 2.95     | 0.005   |  |
| TOLUENE                                   | 490  | ND                       | ND               | ND        | ND   | ND       | 18        | ND        | ND        | ND        | ND        | ND        | ND        | ND        | 3        | ND        | ND                       | ND     | ND        | 2.2       | ND        | -         | 3      | ND     | -     | 2.12      | 7.6                   | ND     | 15.4 | ND      | ND      | 9.3      | 4.03    | ND       | ND      | ND       | 0.007   |  |
| ETHYLBENZENE                              | 5.8  | ND                       | ND               | ND        | ND   | ND       | 14        | ND        | 16        | ND        | ND        | ND        | ND        | ND        | 4.4      | 0.025     | 10                       | 0.043  | 105       | 3.1       | 0.18      | 50.1      | 7.1    | 0.0034 | 8.63  | 7.29      | 56.6                  | 13     | 50.1 | ND      | ND      | 25.1     | 27.4    | 0.001    | 12.5    | 19.9     | 0.07    |  |
| XYLENE TOTAL                              | 58   | ND                       | ND               | ND        | ND   | ND       | 130       | ND        | 136       | ND        | ND        | ND        | ND        | ND        | 38       | 0.16      | -                        | 0.068  | 715       | 47        | 2.4       | 575       | 60     | 0.068  | 50    | 59.1      | 266                   | 51.6   | 575  | 6.22    | 41.9    | 269      | 200     | 0.012    | 113     | 63.3     | 0.413   |  |
| ACENAPHTHENE                              | 360  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 0.56      | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| ANTHRACENE                                | 1,800  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 0.02      | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| BENZO(A)ANTRHACENE                        | 1.1  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| BENZO(A)PYRENE                            | 0.11   | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| BENZO(B)FLUORANTHENE                      | 1.1  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| BENZO(K)FLUORANTHENE                      | 11   | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| CHRYSENE                                  | 110  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| DIBENZO(A,H)ANTHRACENE                    | 0.11   | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| FLUORANTHENE                              | 240  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| FLUORENE                                  | 240  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 0.16      | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| INDENO(1,2,3-CD)PYRENE                    | 1.1  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| NAPHTHALENE                               | 2  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 5         | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| PYRENE                                    | 180  | ND                       | ND               | ND        | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| ARSENIC                                   | 0.68   | ND                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 3.9       | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| BARIUM                                    | 15,000   | 150                      | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 130       | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| CADMIUM                                   | 71   | ND                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| CHROMIUM (IV)                             | 0.3  | ND                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| COPPER                                    | 3,100  | 15                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 11        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| LEAD                                      | 400  | 11                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 9.4       | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| NICKEL                                    | 1,500  | 11                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 9.9       | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| SELENIUM                                  | 390  | ND                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| SILVER                                    | 390  | ND                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | ND        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| ZINC                                      | 23,000   | 50                       | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 38        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| ELECTRICAL CONDUCTIVITY<br>(EC) (mmho/cm) | <4 mmhos/cm<br>or<br>x2 bkqd                         | 0.42                     | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 1         | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| pH  | 6 to 8.3   | 8.5                      | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 9.37      | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |
| SODIUM ADSORPTION RATIO<br>(SAR)          | 6  | 2.7                      | -                | -         | -  | -        | -         | -         | -         | -         | -         | -         | -         | -         | -        | -         | -                        | -      | 14        | -         | -         | -         | -      | -      | -     | -         | -                     | -      | -    | -       | -       | -        | -       | -        | -       | -        |         |  |

2015 & 2018 - Initial results exceediNG Table 910-1 are colored red

2021 - Most recently collected data exceeding COGCC Table 915-1 thresholds are highlighted in yellow

( - ) Indicates analyte not analyzed

Note: 2015 data was obtained from a previously submitted data tracker by LTE (no hard copy data available)