Leslie Heppler <lheppler@utah.gov>

# August Monthly Clay Hollow Cleanup Update

**Lindsay, Thiess (RTHQ)** <Thiess.Lindsay@riotinto.com> Mon, Aug 17, 2015 at 10:20 AM
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Mr. Baker

Attached is the monthly update report and inspection sheets for the Clay Hollow (7/15 – 8/15). Changes from last month include:

1) The Clay Hollow Post Removal Report was approved by DOGM (review and approval by other participating agencies is still in process)

Attached you will find the Clay Hollow Cleanup tracking sheet and the daily inspection log.

If you have any questions, please let me know. Thanks

Thiess Lindsay

Principal Advisor - Closure

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**Clay Hollow Aug Report.pdf**
1048K

Table 1 Cleanup Response Activities

| ID | Work Area | Activity | Planned Target | | Status | Comments |
|---|---|---|---|---|---|---|
| | | | Start | Finish | | |
| 1A | Segment 1 | Additional sampling on the West Jordan property | 4/1/2014 | 5/16/2014 | Complete | The distribution of mine waste sediment shall be based on visual observation, XRF analysis of soils for arsenic and lead, and laboratory analysis on select confirmation samples for arsenic and lead. |
| 1B | Segment 1 | Draft a Characterization/Removal work plan | 4/1/2014 | 4/17/2014 | Complete | Plan provided as dictated in the DOGM Division Directive |
| 1C | Segment 1 | Site visit with DWQ, DOGM and DERR | 4/9/2014 | | | Allow regulators an opportunity to see the site in person and ask questions. |
| 1D | Segment 1 | Regulatory review of Cleanup Plan - Segment 1 | 4/18/2014 | 4/30/2014 | Complete | Submission of joint review between the three agencies |
| 1E | Segment 1 | Obtain comments from DOGM, DWQ and DERR | 4/22/2014 | 4/30/2014 | Complete | Obtain comments from the agencies on Cleanup plan |
| 1F | Segment 1 | Revise work plan and address Agencies comments | 4/22/2014 | 5/14/2014 | Complete | Resubmittal for joint review between the three agencies |
| 1G | Segment 1 | Obtain Regulatory approval of Cleanup Plan - Segment 1 | 4/21/2014 | 7/3/2014 | Complete | Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage. |
| 2A | Segment 1 | Increase desilting capacity at the Kennecott property line | 7/7/2014 | 7/8/2014 | Complete | Initial step is to prevent additional mine waste sediment from migrating off Rio Tinto property. |
| 2B | Segment 1 | Remove sediments from - Segment 1 | 7/9/2014 | 7/15/2014 | Complete | The removal of mine waste sediment will commence just downstream of the desilting basins that are to be constructed. From this point the removal will continue downstream to the property line, thus preventing further migration of mine waste sediment off of Rio Tinto property. |
| 1F | Segments 2-4 | Submission of Cleanup plan for - Segments 2 - 4 | 7/18/2014 | 11/20/2014 | Complete | Plan provided as dictated in the DOGM Division Directive. |
| 2C | Segment 1 | Reconstruct riprapped channel in - Segment 1 | 9/15/2014 | 9/23/2014 | Complete | Replacement of Riprap material will be further protect the stream bottom from erosion and restore the site to its previous condition. |
| 1G | Segments 2-4 | Obtain Regulatory approval of work plan | 12/19/2014 | 12/19/2014 | Complete | Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage. |
| 2D | Segment 1 | Reseed impacted areas in - Segment 1 | 9/23/2014 | 9/23/2014 | Complete | Revegetating immediately downstream of the desilting basins will minimize offsite migration of fines during a storm event. |
| 3A | Segments 2-4 | Remove sediments from - Segments 2-4 | 7/21/2014 | 9/11/2014 | Complete | Removal of sediments found upstream of the desilting basins will minimize the loading and the maintenance of the basins. |
| 3B | Segments 2-4 | Reconstruct drainage channel - Segments 2-4 | 7/28/2014 | 11/26/2014 | Complete | Regrading of the disturbed area will allow for natural water flow and will be done concurrent with removal. |
| 3C | Segments 2-4 | Reseed impacted areas in - Segments 2-4 | 11/18/2014 | 11/26/2014 | Complete | Revegetation of the drainage found upstream of the desilting basins will minimize the loading and the maintenance of the basins. |
| 4A | Segments 1-4 | Submit post removal report | 11/27/2014 | 2/6/2015 | Complete | Detailed report giving removal quantities as well as the test results of the cleaned surface. - This work is in process and progressing on time. |
| 4B | Segments 1-4 | Obtain Regulatory approval of post removal report | 2/6/2015 | | In Process | Regulatory approval of the post removal report |
| 4C | Segments 1-4 | Inspect leach pads and stormwater controls daily until permanent controls are installed | 4/1/2014 | | In Process | Includes daily inspection of all five leach pads and the associated stormwater controls until approval is obtained to decrease the frequency |

Projected dates

* Monthly project updates will be provided on the 15th of each month, until the cleanup is complete. If Barneys deviates from the attached schedule, Barneys and Agencies will discuss any needed action at the agencies request.

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Barneys Canyon Heap Pad and Drainage Inspection

Month: JULY 2015

| Date | BC1 | BC2 | BC3 | BC4 | BC5 | North Perimeter | South Perimeter | East/B&G Perimeter | Inspector | Comments/Corrective Actions |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 11 | | | | | | | | | | |
| 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 13 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
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| 30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TN | Stable |
| 31 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | TN | Stable |

**Heap Leach Pads (BC1 thru BC5):**

1 No heap material or liquids flowing off the lined pad
2 Heap material flowing off the lined pad
3 Liquids flowing off the lined pad

**Perimeter Drainage:**

1 Perimeter drainage in good order and containment of storm water behind permitted dams
2 Uncontained perimeter drainage
3 Moderate to significant erosion to perimeters

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Barneys Canyon Heap Pad and Drainage Inspection

Month: AUGUST 2015

| Date | BC1 | BC2 | BC3 | BC4 | BC5 | North Perimeter | South Perimeter | East/B&G Perimeter | Inspector | Comments/Corrective Actions |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 13 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | DJ | STABLE |
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