Record of Modification

Phase 1 Site Characterization Sampling and Analysis Plan Field Activities
Columbia Fall Aluminum Company RI/FS
Phase 1 SAP MOD #6

Instructions to Requester: **Submit to Roux RI Manager or Roux RI/FS Project Manager**
Roux RI Manager will maintain legible copies in a binder that can be accessed by personnel.

Project Work Plan/QAPP (check one)**:**

[X] 2015 Phase 1 SAP

[ ] SOP (Title, # and approval date): _____

Requester: Michael Ritorto, RI Manager Date: 8/23/2016

Applicable section of SAP/SOP:

SAP Section 4.6: Soil Borings and Soil Sampling

Description of Modification:

Seven (7) test pits to 12 feet below land surface will be completed in the borrow pit area (see attached figures). The test pits will be completed utilizing an excavator operated by Cascase personnel under the oversight of Roux Associates. Test pitting is being performed in lieu of soil borings because the drillers have indicated that the terrain is not traversable with the sonic drill rig. Soil samples will be collected by Roux Associates personnel from each test pit location from three intervals including 0 to 0.5 ft-bls, 2 to 4 ft-bls, and 10 to 12 ft-bls. The 0-0.5 sample will be collected prior to digging the test pit using a spade from the surface. Roux Associates personnel will enter the test pit area and collect the 2 to 4 ft-bls sample using a spade from a clean sidewall. The 10 to 12 ft-bls sample will be collected from the excavator bucket. Additional opportunity samples will be collected if visual staining or odors are observed within the test pits.

Soil samples will be analyzed for the following parameters:

- TCL VOCs (excluding surface soil samples)
- TCL SVOCs
- TAL Metals
- TCL PCBs
- TCL Pesticides (surface samples only)
- Total Cyanide: and
- Fluoride

Rationale for Modifications / Potential Implications of Modifications:

The additional soil samples are proposed to be collected in August 2016 as part of the ongoing Phase I Site Characterization program. Soil analytical data from the test pits will be added to the overall Phase I Site Characterization dataset and will be utilized to initially evaluate conditions within the borrow pit area.

Duration of Modification (Check one):

[X] Temporary

Date(s) 8/23/2016

Sample Numbers CFTP-17 through CFTP-23

[ ] Permanent (Proposed Text Modification Section)

Effective Date: _____

Proposed Text Modifications in Associated Document:

NA

Data Quality Indicator (check one) – Please reference definitions on next page for direction on selecting data quality indicators:

[X] **Not Applicable** [ ] **Reject** [ ] **Low Bias** [ ] **Estimate** [ ] **High Bias** [ ] **No Bias**

Roux Project Manager Approval: Michael Ritorto Date: 8/23/2016

(Roux RI/FS Project Manager or designate)

EPA Review and Approval: Mike Cirian Date: _____

(USEPA RPM or designate)

DATA QUALITY INDICATOR DEFINITIONS

Reject – Samples associated with this modification form are not useable. The conditions outlined in the modification form adversely affect the associated sample to such a degree that the data are not reliable.

Low Bias – Samples associated with this modification form are useable, but results are likely to be biased low. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated low.

Estimate – Samples associated with this modification form are useable, but results should be considered approximations. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimates.

High Bias – Samples associated with this modification form are useable, but results are likely to be biased high. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated high.

No Bias – Samples associated with this modification form are useable as reported. The conditions outlined in the modification form suggest that associated sample data are reliable as reported.