

ATTACHMENT 1C.8.1

Soil Removal, Best Management Practice Feature Installation,
Building Removal
Floodplain Assessment Area



ARCADIS

Soil Removal, Best Management Practice Feature Installation, Building Removal Floodplain Assessment Area

Introduction

The Floodplain Assessment Area (Floodplain AA) consists of three parcels of land on the eastern floodplain of the Rio Grande, east of the American Canal and west of State Route 85 (Paisano Drive). In some areas of the Floodplain AA, surface soils contain lead at concentrations above its protective concentration level (PCL) for direct contact with commercial/industrial soil (C/I $TotSoil_{Comb}$). The Response Action identified for this AA is removal of soil with constituents of concern (COCs) above their respective C/I $TotSoil_{Comb}$ PCLs.

Another Response Action involves controlling storm water runoff from the Floodplain AA through the installation of best management practice (BMP) features, as illustrated on Figure 11 of the RAP.

The following sections of the Response Action Plan (RAP, Arcadis 2016e) describe the Floodplain AA and its associated Response Action:

- RAP Worksheet 1.0, page 4 – description of Floodplain AA
- RAP Worksheet 1.0, pages 5 and 6 – response action objective includes removing soil with COCs above their respective C/I $TotSoil_{Comb}$ PCLs in the Floodplain AA (and other AAs) and controlling stormwater runoff from Floodplain AA through installation of BMP features
- RAP Worksheet 1.0, page 14 – exposure pathways and PCL exceedance (PCLE) zones associated with the Floodplain AA
- RAP Worksheet 1.0, page 38 - exposure pathway at the Floodplain AA
- RAP Worksheet 2.0, page 5 - site characterization data for the Floodplain AA
- RAP Attachment 4A Maps of Confirmation Points Combined
- RAP Appendix 2.2 Floodplain AA Sampling Event
- RAP Figure 11 Stormwater Control Summary

Response Actions

As described in Appendix 2.2 of the RAP, TCT completed soil sampling and excavations in 2016 to remove soil exceeding PCLs. Currently, one 50-ft by 50-ft area surrounding soil sample location SMT-04 (shown on Figure 1 of this attachment, along with other removal areas that are below criteria) requires additional excavation of COC-impacted soil to a depth of 1 foot below ground surface. Table 1 of this attachment shows the laboratory analytical confirmation soil sample results from April 2016, and presents the SMT-04 data containing a lead concentration exceeding its C/I $TotSoil_{Comb}$ PCL. The soil is slated to be placed on the Plant Site as levelling material/subgrade under the evapotranspirative cover. This work will be performed in 2017.

Construction activities were performed in February 2016 to enhance sediment control in storm water collection areas as shown on Figure 11 of the RAP. TCT installed one fabric lined riprap check dam to control sediment discharge to the American Canal and two filter fabric-lined riprap check dams to control sediment discharging to the concrete-lined channel between Outfall SW-5 and the Rio Grande. The photolog included in this attachment shows selected activities.

The Remediation Building in the Floodplain AA was demolished in January 2016. The photolog included in this attachment shows a view of the remaining foundation. Demolition debris was loaded into roll-off boxes for disposal.

Supporting Documents Included in This Attachment

- Table 1 Revised Analytical Results for Composite Surface Soil Samples in the Floodplain Assessment Area, April 2016
- Figure 1 Floodplain Confirmation Sample Locations
- Photolog – Demolition of Remediation Building