

# ATTACHMENT 1C.4.2

Basement Backfill  
Plant Site Assessment Areas



# ARCADIS

## Basement Backfill Plant Site Assessment Areas

### Introduction

As described in the RAP, the Response Action for the Plant Site AAs includes a cover with either Category II material asphalt cover, asphalt drive/parking area, flexible membrane liner (FML) cover, ET soil cover, and/or low permeability cover. Following demolition of the above-ground former smelter plant, there were multiple subsurface basements, pits, and trenches at various locations throughout the Plant Site AAs. To construct the low permeability cover, the subsurface voids would need to be backfilled with structural fill to support the cover and redevelopment of the site.

While the RAP does not specifically address the placement of fill in basements and other subsurface voids, the RAP does describe the overall Response Action, including cover construction and placement of fill, in the following sections:

- RAP, Worksheet 1.0, page 9 – Describes site cover
- RAP, Appendix 3-4 Discharge Monitoring Reports, Construction Storm Water Pollution Prevention Plan, dated December 2012
- RAP, Attachment 2A-15, Cat II Placement Drawings in Grading Permit Application for Category II Material Placement, dated January 9, 2013

In addition, the following letters and reports describe plans and procedures for the grading, placement of fill, and construction of the cover:

- Letter to TCEQ regarding Cat II Placement Plan, dated July 30, 2012
- TCT Report, Site Grading Plan – Backfill Specifications, dated July 2012
- TCT Report, Cat II Material Grading and Drainage Plan
- Letter to TCEQ regarding Proposed Plant Site Evapotranspirative Soil, Asphalt, and Flexible Membrane Covers, dated April 8, 2015

### Regulatory Approval

- Letter from TCEQ regarding review of Proposed Plant Site Evapotranspirative Soil, Asphalt, and Flexible Membrane Covers, dated April 8, 2015 and Plant Site Cover Improvement Plans and Specifications/CQA Requirements Submittal, dated April 21, 2015
- Letter from TCEQ regarding approval of placement plan, dated October 25, 2012

### Response Actions

Structural fill was placed in 23 basements, pits, and trenches per specifications and procedures discussed in this section's CQA report.

This portion of the Response Action to ultimately install a low permeable cover over the plant site is complete. Incomplete portions of the final ET cover will be completed and reported in 2017.

## Supporting Documentation Included in This Attachment

- Letter to TCEQ regarding Proposed Plant Site Evapotranspirative Soil, Asphalt, and Flexible Membrane Covers, dated April 8, 2015
- Letter from TCEQ dated May 22, 2015 regarding review of Proposed Plant Site Evapotranspirative Soil, Asphalt, and Flexible Membrane Covers, dated April 8, 2015 and Plant Site Cover Improvement Plans and Specifications/CQA Requirements Submittal, dated April 21, 2015
- Construction Quality Assurance Report for Category II and Category III Fill Placement in Basements, including tables 1 through 28 (summaries of geotechnical test results), figures 1 through 4, and appendices A through C (photograph logs)