Mr. David Locey
NYDEC Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
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Subject:
Union Ship Canal Public Open Space, Site #B00164
Cap Verification Work Plan

ENVIRONMENTAL

Date:
August 2, 2016

Contact:
Ben Girard

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Our ref:
04080012.0000

Dear Mr. Locey:

On behalf of Buffalo Urban Development Corporation (BUDC), Arcadis U.S., Inc. (Arcadis) is pleased to provide New York State Department of Environmental Conservation (NYSDEC) with this Work Plan for cap verification to be performed at the Hanna Furnace Sub-parcel 3, Site #B00164, Union Ship Canal Open Space Site (Site). This work is being performed in response to the NYSDEC letter dated June 1, 2016. The work to be performed is detailed below.

WORK PLAN

Arcadis will subcontract a New York State licensed drilling company to advance direct push borings throughout the 22-acre Site. The intention of these borings are to verify that the minimum thickness of soil ground cover above a subsurface demarcation fabric exists. The required thickness is two feet.

A total of 44 boring locations (two soil borings per acre) will be utilized, as requested by NYSDEC. In an effort to minimize damage to the existing cap, the boring locations will generally be selected near paved trails and the Site boundary. Arcadis will establish a safe perimeter around active boring locations and redirect any bike or pedestrian traffic that may be impeded by this work. The approximate locations of the proposed soil borings are included on Figure 1 below.

Soil borings will be advanced using a track mounted Geoprobe rig to a minimum of two feet below ground surface and no deeper than four feet below ground surface. Soil borings will be continuously logged and visually characterized for color, texture, moisture content, evidence of demarcation layer, and evidence of contrasting composition with underlying fill. All soil borings will be backfilled with their respective drill cuttings. Hydrated bentonite will be used if additional backfill material is needed. This work is expected to be completed in two days.

Figure 1: Soil Boring Locations

REPORTING

Arcadis will provide NYSDEC with a summary of field activities and observations. This brief report is anticipated to include field notes, soil boring logs, sample location figure, and site photography.