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DEPT OF ECOLOGY
TCP - NWRO



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600 Stewart Street, Suite 1700
Seattle, Washington 98101
206.728.2674

June 30, 2016

Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Attention: Tamara Cardona

Subject: Acorn Development LLC, Block 19
Block 19 Addendum to June 10, 2016 Response Letter
2101 7th Avenue, Seattle, Washington
VCP Project No.: NW3011
File No. 20434-001-00

On behalf of Acorn Development LLC (Acorn), a subsidiary of Amazon.com, GeoEngineers, Inc. (GeoEngineers) is providing this addendum to our June 10, 2016 letter, which was written in response to the Washington State Department of Ecology's (Ecology's) letter dated February 18, 2016 regarding the Block 19 (also referred to as 7th and Lenora) project site located at 2101 7th Avenue, Seattle, Washington 98119. The project site is bounded by Blanchard Street to the northwest, 7th Avenue to the northeast, Lenora Street to the southeast and 6th Avenue to the southwest. The subject property is currently an active construction site being developed with a 37-story office tower, an additional supporting building and six levels of underground parking.

Following submittal of the June 10, 2016 letter, Ecology requested a cross-section showing the approximate locations of contaminated soil removal, characterization and confirmation soil samples and the soil removed during mass-excavation activities as part of the property redevelopment. Figures 4 and 5 show the cross-section line and cross-section A-A', respectively. Figures 4 and 5 should be reviewed in conjunction with Figures 1 through 3 which were included our June 10, 2016 letter. As shown in Figure 5, small, shallow (less than 15 feet deep) remedial actions to remove contaminated soil were completed as a subset of the mass construction excavation. Following confirmation sampling at the limits of the remedial excavations, soil from the entire subject property was removed to a depth of approximately 90 feet below the ground surface to accommodate the completion of 6 levels of underground parking.

Based on the data provided in our original VCP application, the June 10, 2016 letter and this addendum, conditions at the Block 19 property following the remedial excavation of the contaminated soil during property redevelopment are protective of human health and the environment, meet the requirements of MTCA and a No Further Action (NFA) opinion letter from Ecology is warranted.

We appreciate your review of the additional information provided in this letter and we request a NFA determination for the cleanup actions completed on Block 19. If there are questions regarding this submittal please contact us.

Sincerely,
GeoEngineers, Inc.



Jessica Smith, LG
Senior Project Manager

JAS:DAC:lw

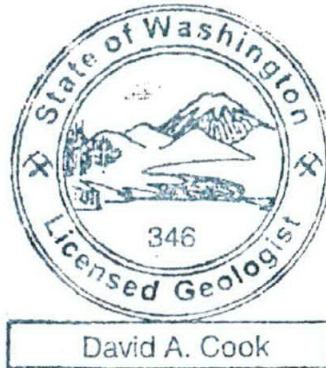
Attachments:

Figure 4. Site Plan

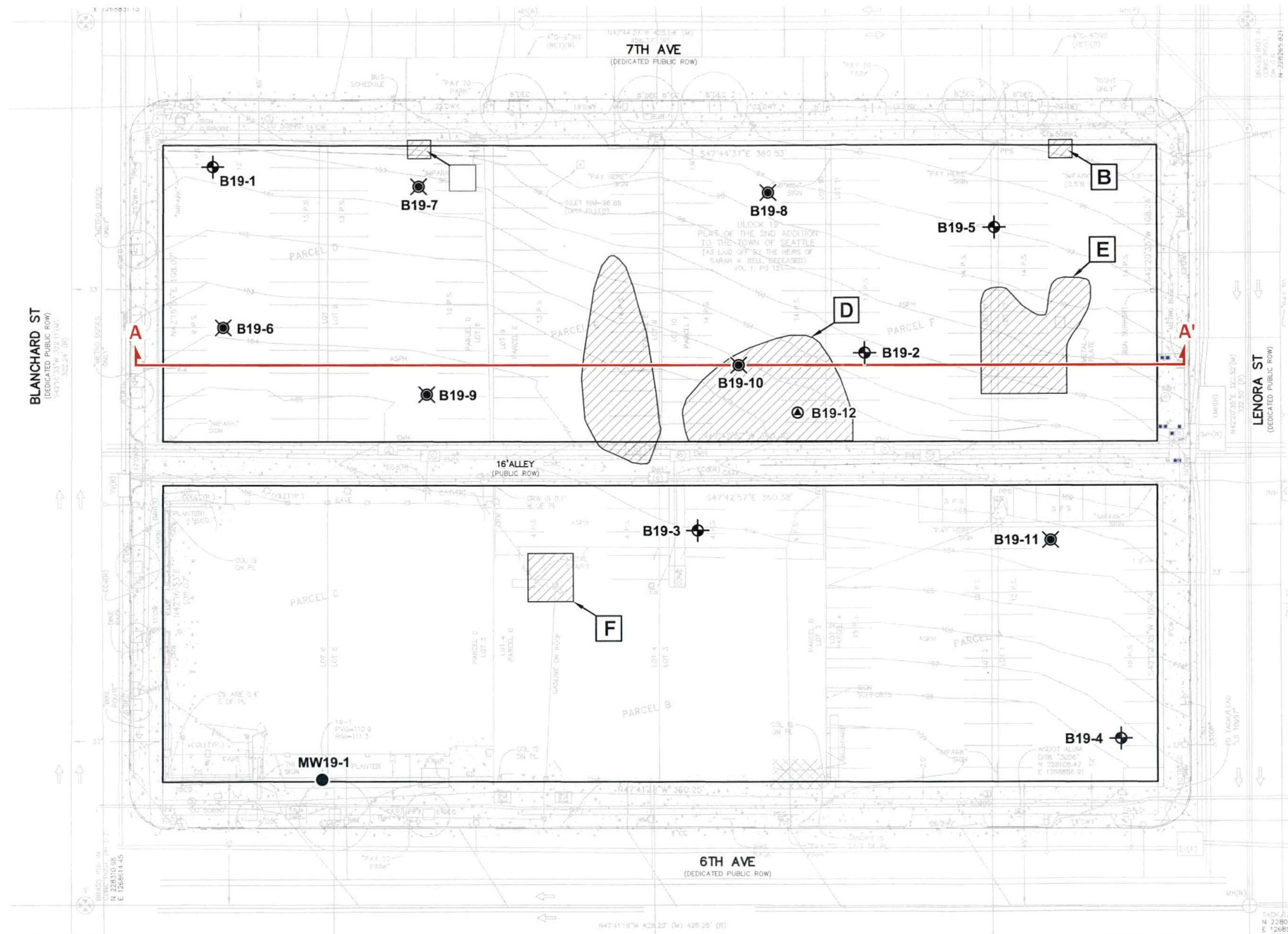
Figure 5. Cross-Section A-A'

cc: John Schoettler, Acorn Development LLC
Todd Leber, Seneca Group

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



David A. Cook, LG, CPG
Principal



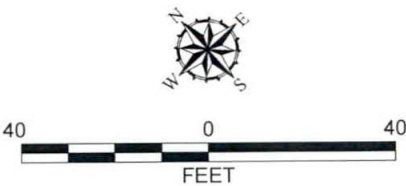
Legend

A

Remedial Excavation Areas (A-E). Excavation areas identified by field screening and soil sampling. See figures 2-6 for characterization and confirmation soil sample locations.

- A: Petroleum impacted soil near soldier pile N13
- B: Petroleum impacted soil near soldier pile N44
- C: Former underground storage tank and remedial excavation of petroleum contaminated soil
- D: PAH contaminated soil from tremie pipe
- E: Petroleum contaminated soil
- F: Former oil-water separator and petroleum contaminated soil

- B19-12 ● Lead Flight Auger Test Boring Completed in February 2014
- MW14-3 ● Shallow Monitoring Wells Completed in April 2012
- B14-6 ● Direct-Push Borings Completed in April 2012
- B14-1 ● Hollow-stem Auger Borings Completed in February 2012
- MW19-1 ● Monitoring Well Completed in February 2012
- A A' Cross-Section Location



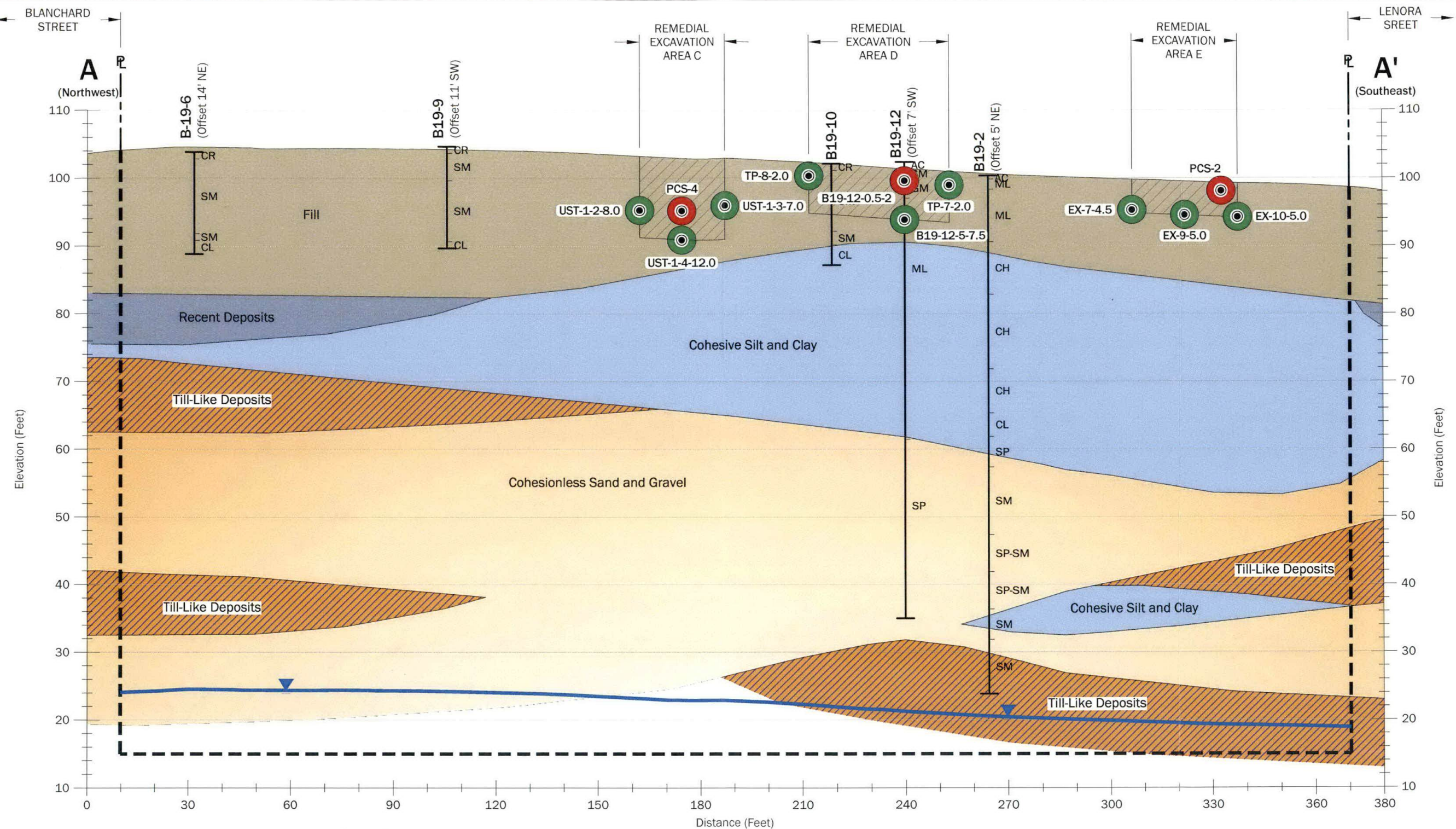
Notes

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Site survey CAD file "XS-SUR.dwg" provided by Bush, Roed & Hitchings, Inc., dated March 2012. Shoring design cad files by Ground Support provided on 4-9-14.

Site Plan	
Block 19 Remedial Excavation Areas Seattle, Washington	
	Figure 4

P:\20\20434001\CAD\25\Ecology Response Letter\20434001-25 Cross-Section showing full excavation.dwg TAB:11x17 Landscape Date Exported: 06/30/16 8:34 by tmichaud



Legend



Remedial Excavation Area



Characterization sample obtained in 2014.
Contaminants of concern were detected at
concentrations greater than MTCA cleanup levels.



Confirmation soil sample obtained in 2014.
Contaminants of concern were not detected.



Soil excavated to approximately 90-feet below the
ground surface (bgs) for construction purposes.
Groundwater was encountered at approximately 80' bgs.



Fill



Recent Deposits



Cohesive Silt and Clay



Cohesionless Sand and Gravel



Till-Like Deposits

30 0 30

Horizontal Scale in Feet

15 0 15

Vertical Scale in Feet

Vertical Exaggeration: 2X

Cross-Section A-A'

Block 19 Remedial Excavation Areas
Seattle, Washington

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Figure 5

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



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Redmond, WA 98052



To: NWFO Toxics Cleanup Program
Washington Department of Ecology
3190 150th Avenue SE
Bellevue Washington 98008

Attention: Tamara Cardona

