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October 10, 2022

Alan Noell, PhD, PE
Solid Waste Management Program
Washington State Department of Ecology, Northwest Regional Office
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Subject: Third Quarter 2022 Progress Report
Go East Corp Landfill Site
Snohomish County, Washington
Agreed Order No. DE 18121
GeoEngineers Project No. 6694-002-05

Dear Mr. Noell,

GeoEngineers, Inc. (GeoEngineers) has prepared this Third Quarter 2022 Progress Report on behalf of P&GE, LLC for the Go East Corp Landfill Site (Site) pursuant to Agreed Order No. DE 18121 (Agreed Order). This report summarizes actions performed during the third quarter of 2022 to implement the requirements of the Agreed Order and includes the information specified in Section VII.C of the Agreed Order.

ON-SITE ACTIVITIES

Eight background sediment samples were collected from Wetland A and Stream 1 on July 13, 2022. Results were provided to Ecology via email on August 1, 2022.

Six soil samples were collected from a former stormwater detention pond in the 'cul-de-sac' area of the site on August 3, 2022. The samples were collected to ensure stormwater had not contaminated soil. Results will be provided in a forthcoming Interim Action Completion Report Addendum.

The fifth round of groundwater and surface water sampling was performed during the week of September 19 that included the following sampling locations:

- Wells MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9 and MW-10.
- Surface water sample location SWS-1 was sampled from the spring box.
- Samples were collected from one seep location. All other locations were dry.

Results will be provided during the fourth quarter of 2022.



DEVIATIONS FROM REQUIRED TASKS NOT OTHERWISE DOCUMENTED IN PROJECT PLANS OR AMENDMENT REQUESTS

- None.

DEVIATIONS FROM THE AGREED ORDER SCOPE OF WORK AND SCHEDULE

- None.

PLANNED DEVIATIONS FROM THE AGREED ORDER SCOPE OF WORK AND SCHEDULE IN THE UPCOMING QUARTER

- None.

PLAN FOR RECOVERING LOST TIME AND MAINTAINING COMPLIANCE WITH THE AGREED ORDER SCHEDULE (APPLICABLE IF SCHEDULE DEVIATIONS OCCURRED DURING THE QUARTER)

- Not applicable.

RAW DATA RECEIVED NOT PREVIOUSLY SUBMITTED TO ECOLOGY

- Draft analytical results from the six soil samples collected from the cul-de-sac area are attached.

PLANNED DELIVERABLES FOR THE UPCOMING QUARTER (IF DIFFERENT FROM THE AGREED ORDER SCHEDULE)

- Fifth quarter groundwater and surface water sampling data.

GeoEngineers trusts that this report meets Ecology’s needs. Please call Garrett Leque at 253.312.7958 if you have questions.

Sincerely,
GeoEngineers, Inc.

Garrett R. Leque, LG
Senior Environmental Geologist

Terry R. McPhetridge, LG, LHG
Principal

Attachments:

Table 1. Summary of Cul de Sac Soil Chemical Analytical Data (Draft)

Figure 1. Cul de Sac Soil Sampling Locations

GRL:TRM:ch

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.



Table 1
Cul de Sac Soil Sampling Results
 Go East Corp Landfill Site
 Everett, Washington

	Location ID	SOIL-1	SOIL-2	SOIL-3	SOIL-4	SOIL-5	SOIL-6
	Sample ID	SOIL-1-220803	SOIL-2-220803	SOIL-3-220803	SOIL-4-220803	SOIL-5-220803	SOIL-6-220803
	Sample Date	8/3/2022	8/3/2022	8/3/2022	8/3/2022	8/3/2022	8/3/2022
	Start Depth	0	0	0	0	0	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5
	Depth Unit	feet	feet	feet	feet	feet	feet
Analyte	Soil Screening Level¹						
Petroleum Hydrocarbons (mg/kg)							
Diesel-range hydrocarbons	NE	28 U	30 U	27 U	28 U	27 U	26 U
Lube oil-range hydrocarbons	NE	66	59 U	54 U	56 U	54 U	53 U
Sum of DRO+ORO	260	66	59 U	54 U	56 U	54 U	53 U
Metals (mg/kg)							
Arsenic	20	11 U	12 U	11 U	11 U	11 U	11 U
Cadmium	0.80	0.55 U	0.59 U	0.54 U	0.56 U	0.54 U	0.53 U
Chromium	48	26	44	51	29	32	23
Copper	36	12	28	21	14	14	11
Iron	56,000	17,000	21,000	20,000	17,000	19,000	16,000
Lead	50	6.8	5.9 U	5.4 U	5.6 U	5.4 U	5.3 U
Magnesium	NE	7,000	8,400	8,100	6,300	6,700	6,400
Manganese	3,700	320	350	380	340	320	280
Mercury	0.070	0.034	0.030	0.021	0.027	0.022 U	0.021 U
Nickel	48	54	64	54	48	46	42
Selenium	0.80	0.28 U	0.32	0.28	0.28 U	0.27 U	0.26 U
Zinc	86	34	57	38	37	34	28
Polycyclic Aromatic Hydrocarbons (mg/kg)							
1-Methylnaphthalene	34	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
2-Methylnaphthalene	320	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Acenaphthene	3.1	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Acenaphthylene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Anthracene	47	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(a)anthracene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(a)pyrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(b)fluoranthene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(g,h,i)perylene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Benzo(j,k)fluoranthene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Chrysene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Dibenzo(a,h)anthracene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Fluoranthene	0.020	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Fluorene	1.6	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Indeno(1,2,3-c,d)pyrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Naphthalene	4.5	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Phenanthrene	NE	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Pyrene	0.020	0.0073 U	0.0079 U	0.0071 U	0.0075 U	0.0073 U	0.0070 U
Total cPAH TEQ (ND=0.5RL)	0.084	0.00551 U	0.00596 U	0.00536 U	0.00566 U	0.00551 U	0.00528 U

Notes:

¹ Soil screening levels shown are from the June 30, 2021 Final Remedial Investigation Workplan.

NE = Screening level not established

BDL = Below detection limit

Sum of DRO+ORO = Sum of diesel-range organics and oil-range organics

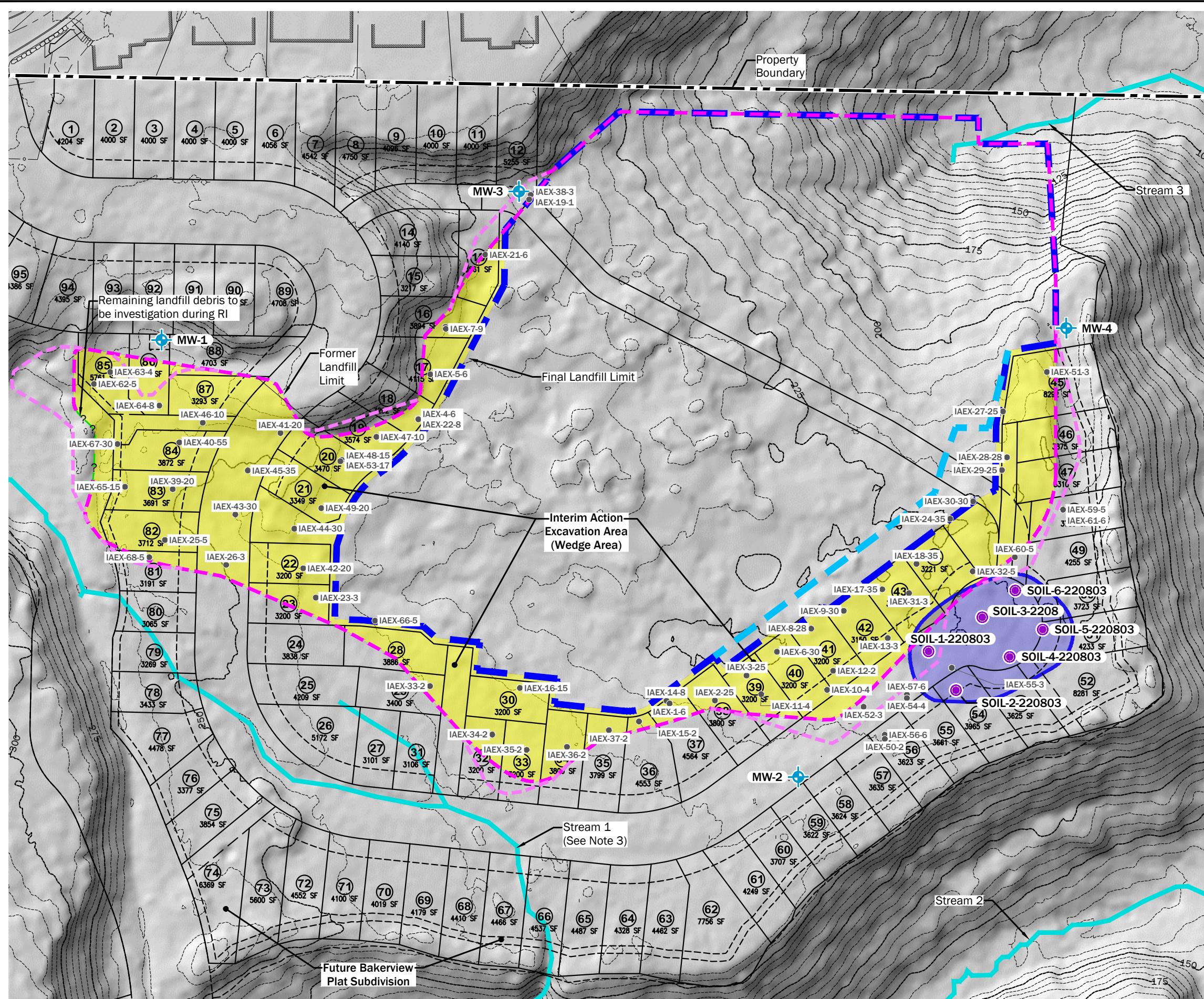
U = Not detected at the indicated laboratory reporting limit

Total cPAH TEQ (ND=0.5RL) = The total cPAH toxic equivalency concentration calculated per WAC 173-340-900 Table 708-2 using non detects at one half the reporting limit.

Gray shading indicates the concentration exceeds the screening level.

Bold font indicates analyte was detected.

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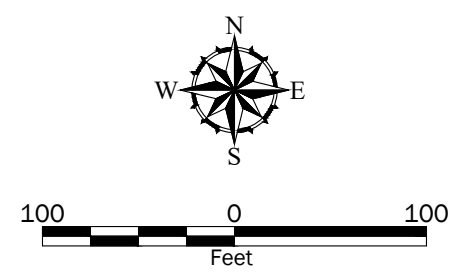
Legend

- Property Boundary
- Interim Action Excavation Area (Wedge Area)
- Former Landfill Limit - Anticipated
- Former Landfill Limit - Actual
- Final Landfill Limit - Anticipated
- Final Landfill Limit - Actual
- Confirmation Soil Sampling Location
- Groundwater Monitoring Well (AESI, 2009)
- Approximate Location of Temporary ponded stormwater
- Cul de Sac Soil Sampling Location

- ### 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.
 3. As of report preparation (August 2021), the stream course has been modified.

Data Source: Property boundary survey from PACE Engineers, dated 1/27/2020.
Lidar image and elevation contours from Puget Sound Lidar Consortium dated 2013.

Projection: HPGN (HARN) Washington State Planes, North Zone, US Foot



Cul de Sac Soil Sampling Locations	
Go East Corp Landfill Site Everett, Washington	
	Figure 1