### APPENDIX C TERRESTRIAL ECOLOGICAL EVALUATION

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019



### **Voluntary Cleanup Program**

### Washington State Department of Ecology Toxics Cleanup Program

### TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

- 1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
- 2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
- 3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

### Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <u>https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation</u>.

### Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Block 38 West

Facility/Site Address: 520 Westlake Ave N, Seattle, WA 98109

Facility/Site No: 62773

VCP Project No.: N/A

Title: Associate Geologist

### Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: Logan Schumacher

Organization: Farallon Consulting

Mailing address: 1809 7th Ave Ste 1111

City: Seattle			te: WA	Zip code: 98101
Phone: (425) 295-0800	Fax: NA		E-mail: Ischumacher	@farallonconsulting.com

St	Step 3: DOCUMENT EVALUATION TYPE AND RESULTS					
Α.	A. Exclusion from further evaluation.					
1.	1. Does the Site qualify for an exclusion from further evaluation?					
	$\boxtimes$	Yes If you answered " <b>YES</b> ," then answer <b>Question 2</b> .				
	□ Unl	No or If you answered " <b>NO" or "UNKNOWN,"</b> then skip to <b>Step 3B</b> of this form.				
2.	What is t	he basis for the exclusion? Check all that apply. Then skip to Step 4 of this form.				
	Point of (	Compliance: WAC 173-340-7491(1)(a)				
		All soil contamination is, or will be,* at least 15 feet below the surface.				
		All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.				
	Barriers t	to Exposure: WAC 173-340-7491(1)(b)				
	$\boxtimes$	All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.				
	Undevelo	oped Land: WAC 173-340-7491(1)(c)				
		There is less than 0.25 acres of contiguous <sup>#</sup> undeveloped <sup>±</sup> land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.				
	$\boxtimes$	For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous <sup>#</sup> undeveloped <sup>±</sup> land on or within 500 feet of any area of the Site.				
	Backgrou	und Concentrations: WAC 173-340-7491(1)(d)				
		Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.				
ace ± " pre # " hig	<ul> <li>* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.</li> <li><sup>±</sup> "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.</li> <li><sup>#</sup> "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.</li> </ul>					

B.	Simplified evaluation.					
1.	. Does the Site qualify for a simplified evaluation?					
	🗌 Y	es If you answered "YES," then answer Question 2 below.				
	☐ No or Unknown If you answered "NO" or "UNKNOWN," then skip to Step 3C of this form.					
2.	Did you co	onduct a simplified evaluation?				
	🗌 Y	es If you answered "YES," then answer Question 3 below.				
		lo If you answered " <b>NO</b> ," then skip to <b>Step 3C</b> of this form.				
3.	Was furth	er evaluation necessary?				
	🗌 Y	es If you answered "YES," then answer Question 4 below.				
		lo If you answered " <b>NO</b> ," then answer <b>Question 5</b> below.				
4.	lf further e	evaluation was necessary, what did you do?				
		Used the concentrations listed in Table 749-2 as cleanup levels. <i>If so, then skip to Step 4</i> of this form.				
		Conducted a site-specific evaluation. If so, then skip to Step 3C of this form.				
5.	If no furth to Step 4 c	er evaluation was necessary, what was the reason? Check all that apply. Then skip f this form.				
	Exposure	Analysis: WAC 173-340-7492(2)(a)				
		Area of soil contamination at the Site is not more than 350 square feet.				
		Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.				
	Pathway A	nalysis: WAC 173-340-7492(2)(b)				
		No potential exposure pathways from soil contamination to ecological receptors.				
	Contamina	nt Analysis: WAC 173-340-7492(2)(c)				
		No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.				
		No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.				
		No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.				
		No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.				

<b>C. Site-specific evaluation.</b> A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. <i>See</i> WAC 173-340-7493(1)(c).					
1. Was there a problem? See WAC 173-340-7493(2).	1. Was there a problem? See WAC 173-340-7493(2).				
Yes If you answered " <b>YES</b> ," then answer <b>Question 2</b> below.					
☐ No If you answered "NO," then identify the reason here and then skip to Question s below:					
No issues were identified during the problem formulation step.					
While issues were identified, those issues were addressed by the cleanup actions for protecting human health.					
2. What did you do to resolve the problem? See WAC 173-340-7493(3).					
Used the concentrations listed in Table 749-3 as cleanup levels. <i>If so, then skip t Question 5 below.</i>	)				
Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. <i>If so, then answer</i> <b>Questions 3 and 4</b> below.					
<b>3.</b> If you conducted further site-specific evaluations, what methods did you use? <i>Check all that apply. See</i> WAC 173-340-7493(3).					
Literature surveys.					
Soil bioassays.	Soil bioassays.				
Wildlife exposure model.	Wildlife exposure model.				
Biomarkers.	Biomarkers.				
Site-specific field studies.	Site-specific field studies.				
Weight of evidence.					
Other methods approved by Ecology. If so, please specify:					
4. What was the result of those evaluations?					
Confirmed there was no problem.					
Confirmed there was a problem and established site-specific cleanup levels.					
5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?					
Yes If so, please identify the Ecology staff who approved those steps:					
□ No					

### Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.

### APPENDIX D DEEP OUTWASH AQUIFER MONITORING

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019



Oregon Portland | Baker City California

Oakland | Folsom | Irvine

### TECHNICAL MEMORANDUM

то:	Tena Seeds – Washington State Department of Ecology Toxics Cleanup Program		
cc:	Jim Broadlick – City Investors XI L.L.C.		
FROM:	Clifford Schmitt, L.G., L.H.G., Principal Hydrogeologist Eric Buer, L.G., L.H.G., P.G., Senior Hydrogeologist		
DATE:	January 13, 2020		
RE:	GROUNDWATER MONITORING PROGRAM SOUTH LAKE UNION BLOCK 38 WEST PROPERTY SEATTLE, WASHINGTON FARALLON PN: 397-061		

Farallon Consulting, L.L.C. (Farallon) has prepared this Technical Memorandum to provide the rationale for selection of monitoring locations and sampling frequency for the Deep Outwash Aquifer Groundwater Performance Monitoring Program (Groundwater Monitoring Program) that will be conducted prior to, in conjunction with, and after completion of construction dewatering to facilitate mass excavation and building construction at the Block 38 West Property at 500 Westlake Avenue North in Seattle, Washington (Block 38 West) (Figure 1). The Groundwater Monitoring Program is a component of the interim action cleanup activities and is described in Section 8.4 of the *Interim Action Work Plan, Block 38 West Property, 500 through 536 Westlake Avenue North, Seattle, Washington* dated November 8, 2019, prepared by Farallon for City Investors IX L.L.C. (Interim Action Work Plan). The Groundwater Monitoring Program is being implemented in response to historical releases of the dry cleaning solvent tetrachloroethene (PCE) at the property at 700 Dexter Avenue North (BMR-Dexter Property), which resulted in a regional plume of chlorinated volatile organic compounds (CVOCs)<sup>1</sup> that has migrated through multiple water-bearing zones in the South Lake Union area (BMR-Dexter CVOC Plume).

Concentrations of CVOCs, specifically cDCE and vinyl chloride, that are attributable to the BMR-Dexter CVOC Plume are known to be present at, and/or immediately north-northwest of, Block

<sup>&</sup>lt;sup>1</sup> The CVOCs include PCE; trichloroethene (TCE); isomers of dichloroethene, primarily cis-1,2-dichloroethene (cDCE); and vinyl chloride.



38 West. This Technical Memorandum provides a general overview of hydrogeologic units in the vicinity of Block 38 West, groundwater flow under static<sup>2</sup> (e.g. non-pumping) and pumping conditions, distribution of the BMR-Dexter CVOC Plume, and other information pertinent to development of the Groundwater Monitoring Program.

### GROUNDWATER ZONES PRESENT IN SOUTH LAKE UNION AREA

Previous investigations in the South Lake Union area have described three water-bearing zones based on the lithologic unit in which they are encountered. These zones have varying degrees of hydraulic interconnection dependent on the location. The water-bearing zones at Block 38 West are summarized as follows:

- The uppermost water-bearing zone encountered on Block 38 West is the Shallow Water-Bearing Zone. The Shallow Water-Bearing Zone comprises fill and underlying recent deposits. At Block 38 West, the Shallow Water-Bearing Zone varies in thickness from approximately 5 to 15 feet and is first encountered at elevations between 22 and 25 feet North American Vertical Datum 1988 (NAVD88).
- The Intermediate Water-Bearing Zone<sup>3</sup> refers to groundwater encountered in consolidated glacial deposits. Typically, these deposits comprise dense silty sands and stiff sandy silts. The Intermediate Water-Bearing Zone is first encountered at approximate elevations of 5 to 10 feet NAVD88. Based on previous subsurface investigations, the Shallow Water-Bearing Zone is in direct communication with the Intermediate Water-Bearing Zone on Block 38 West.
- The Deep Outwash Aquifer refers to groundwater first encountered at approximate elevations of -30 to -40 feet NAVD88 in outwash sands with minor silt content below the consolidated glacial deposits.

At Block 38 West, the vertical gradient between the water-bearing zones is relatively small (e.g., approximately 1 foot downward) and groundwater levels have ranged from 16 to 18 feet NAVD88.

### **GROUNDWATER FLOW UNDER STATIC CONDITIONS**

Under static conditions, there is typically a downward vertical gradient present from the Shallow Water-Bearing Zone to the Intermediate Water-Bearing Zone and from the Intermediate Water-Bearing Zone to the Deep Outwash Aquifer in the South Lake Union area. In the area west of Terry Avenue North where no aquitard is present between the Shallow and Intermediate Water-Bearing Zones or between the Intermediate Water-Bearing Zone and the Deep Outwash Aquifer, groundwater from the Shallow Water-Bearing Zone discharges to the Intermediate Water-Bearing Zone and from the Intermediate Water-Bearing Zone to the Deep Outwash Aquifer, groundwater from the Shallow Water-Bearing Zone to the Deep Outwash Aquifer as groundwater flows from west to east. A detailed description of the evidence supporting this conceptual model

<sup>&</sup>lt;sup>2</sup> Static conditions in this Technical Memorandum refers to periods when no groundwater extraction is occurring for the purposes of construction dewatering or groundwater treatment, or for other purposes.

<sup>&</sup>lt;sup>3</sup> The Intermediate Water-Bearing Zone is sometimes further divided into an "A" and "B" units. For the purposes of this Technical Memorandum, this subdivision was not considered necessary.



of groundwater flow under static conditions is not presented in this Technical Memorandum but can be provided upon request<sup>4</sup>.

### DISTRIBUTION OF BMR-DEXTER CVOC PLUME

The BMR-Dexter CVOC Plume currently extends more than 1,000 feet from the BMR-Dexter Property to the east-southeast as shown on Figure 2<sup>5</sup>. While construction dewatering associated with neighboring properties has had short-term, temporary impacts on the BMR-Dexter CVOC Plume, its current footprint is the result of significant releases of CVOCs to groundwater at the BMR Dexter Property beginning in 1966, followed by decades of down-gradient migration under static conditions (i.e., west to east).

Construction dewatering events were limited in duration and are relatively recent compared to the decades since dry cleaning services started at the BMR-Dexter Property and releases of PCE occurred to the subsurface. During most of the period when the BMR-Dexter CVOC Plume was migrating down-gradient of BMR-Dexter Property source areas, groundwater flow occurred under static conditions from west to east, including in the Intermediate Water-Bearing Zone and Deep Outwash Aquifer. Temporary variations in groundwater flow in the Intermediate Water-Bearing Zone and/or Deep Outwash Aquifer may have occurred during some construction dewatering or other groundwater extraction events for limited periods of time.

### **OVERVIEW OF CONSTRUCTION DEWATERING AT BMR-DEXTER PROPERTY**

It is Farallon's understanding based upon submissions to Ecology by BMR-Dexter LLC that construction dewatering at the BMR-Dexter Property commenced on August 9, 2019<sup>6</sup>, and will continue for approximately 14 months during construction of two 14-story towers above three levels of subgrade parking<sup>7</sup>. The purpose of the construction dewatering system is to lower the groundwater table to an elevation below the base of the BMR-Dexter Property parking garage foundation (i.e., to below 1.6 feet NAVD88), which is up to 35 feet below the static groundwater level, prior to construction.

During the period of construction dewatering, groundwater beneath the BMR-Dexter Property and surrounding properties, including Block 79 to the east and Blocks 49 and 84 (City Mega Block) to

<sup>&</sup>lt;sup>4</sup> Briefly, comparison of groundwater elevations between appropriately screened wells that progress along the staticcondition groundwater flow line from the BMR-Dexter Property to the east show positive head differences from the Shallow to Intermediate Water-Bearing Zones and from the Intermediate Water-Bearing Zone to the Deep Outwash Aquifer.

<sup>&</sup>lt;sup>5</sup> Approximate extent is based on groundwater data reported in the *Revised Agency Review Draft Remedial Investigation/Feasibility Study Work Plan, American Linen Supply Co – Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington* dated April 15, 2019, prepared by PES Environmental, Inc. for the Washington State Department of Ecology (Ecology) (Draft RI/FS Report).

<sup>&</sup>lt;sup>6</sup> Letter regarding Progress Report No. 22 – August 2019, American Linen Supply Co – Dexter Ave Site, Agreed Order No. DE 14302 dated September 13, 2019, from Mr. Daniel A. Balbiani of PES Environmental, Inc. to Ms. Tamara Cardona of Ecology.

<sup>&</sup>lt;sup>7</sup> Pumping started on the northwestern leg of the BMR-Dexter Property dewatering system on August 6, 2019 and on the southern and eastern legs on August 19, 2019. An estimated 14-month construction period would result in system shut-down on or approximately on October 2020.



City Investors XI L.L.C. January 13, 2020 Page 4

the south, will be within the radius of influence of the construction dewatering system. As a result, the direction of groundwater flow will be altered to flow radially toward the BMR-Dexter Property (e.g., groundwater at Block 79 will reverse from the static condition west-to-east flow direction and will flow east-to-west toward the BMR-Dexter Property).

### **OVERVIEW OF CONSTRUCTION DEWATERING AT BLOCK 38 WEST**

Construction dewatering at Block 38 West will commence on approximately on December 30, 2019 and will continue for approximately 9 months during construction of a multistory mixed-use building with five stories above street level and four levels of parking below street level<sup>8</sup>. The objective of the construction dewatering system is to lower the groundwater table to an elevation below the base of the Block 38 West parking garage foundation (i.e., to below -10 feet NAVD88<sup>9</sup>), which is just over 25 feet below the static groundwater level prior to construction. During the period of construction dewatering, groundwater beneath Block 38 West and surrounding properties, including Block 37 to the north and Block 43 to the northwest, will be within the radius of influence of the construction dewatering system. As a result, the direction of groundwater flow will be altered to flow radially toward Block 38 West.

Although the current concentrations of CVOCs in the Deep Outwash Aquifer at Block 38 West (less than 1 microgram per liter of cDCE at monitoring wells FMW-137 and FMW-138) are less than the proposed screening levels for the American Linen Supply Co. – Dexter Avenue Site, concentrations of CVOCs exceeding the screening levels are present at distal end of the BMR-Dexter CVOC Plume on the western portion of Block 37 to the north (Figure 2). It is expected that much of the BMR-Dexter CVOC Plume mass presently located within approximately 400 to 500 feet<sup>10</sup> of Block 38 West will be extracted during the period of construction dewatering system operation. The extracted BMR-Dexter CVOC Plume mass will be treated prior to discharge in accordance with the Interim Action Work Plan and applicable permit requirements, including Administrative Order Docket No. 16592.

### EFFECTS OF CONCURRENT CONSTRUCTION DEWATERING

As stated above, construction dewatering at the BMR-Dexter Property will lower the groundwater table up to 35 feet, while construction dewatering at Block 38 West will lower the groundwater table approximately 26 to 28 feet below static groundwater levels. Because both systems will have similar cones of depression (e.g., depressions in the water table surface associated with groundwater withdrawal), it is anticipated that contamination at, and proximate to, each property will not be drawn toward the other property. As a result of concurrent construction dewatering at the BMR-Dexter Property and Block 38 West, a temporary groundwater divide will develop centered in the vicinity of the intersection of Valley Street and 9<sup>th</sup> Avenue North, oriented

<sup>&</sup>lt;sup>8</sup> The estimated 9-month dewatering schedule will result in system shut-down beginning in early September 2020.

<sup>&</sup>lt;sup>9</sup> *Groundwater Control Plan, Block 38, Seattle, Washington* dated October 17, 2018, prepared for GLY Construction by Middour Consulting, LLC.

<sup>&</sup>lt;sup>10</sup> The distance from Block 38 West that CVOC mass will be captured is dependent on the groundwater extraction rate during dewatering; the length of the dewatering at Block 38 West; the presence of a groundwater divide during concurrent construction dewatering at the both the BMR-Dexter Property and Block 38 West; and other hydrogeologic and fate and transport factors.



approximately north-northeast to south-southwest (Figure 2). Groundwater north and west of the divide will flow toward the BMR-Dexter Property construction dewatering system. Groundwater south and east of the divide will flow toward the Block 38 West construction dewatering system.

This condition is shown schematically on Figure 2 both in plan view and in profile. On the plan view, the approximate presently known extent of the BMR-Dexter CVOC Plume is shown in red shading<sup>11</sup> and the blue arrows depict the radial inward groundwater flow direction during construction dewatering at the BMR-Dexter Property and Block 38 West. The profile A-A'-A" depicts the static and depressed groundwater levels and the groundwater divide that will temporarily be present between the properties during concurrent construction dewatering events.

The Block 38 West construction dewatering system is expected to capture groundwater at the distal end of the BMR-Dexter CVOC Plume located south and east of the groundwater divide (Figure 2). As the Block 38 West construction dewatering system operates, radial flow toward Block 38 West will develop. This radial flow will include a slightly more south-southeastern groundwater flow in the area of Block 43 on the southeastern side of the groundwater divide compared to static conditions.

### **RATIONALE FOR GROUNDWATER MONITORING PROGRAM**

The purpose of the Groundwater Monitoring Program is to monitor groundwater with measurable concentrations of CVOCs that are associated with the BMR-Dexter CVOC Plume that will be affected by construction dewatering. Figure 3 shows the locations of the wells that will be sampled in conjunction with the Groundwater Monitoring Program proximate to the BMR-Dexter CVOC Plume, and summarizes analytical results for prior monitoring events at each well for which data are available.

Table 1 presents detailed information for each of the wells selected for inclusion in the Groundwater Monitoring Program and the rationale for selection as a monitoring point. The south-southeastern flow direction during construction dewatering in the area of the distal portion of the BMR-Dexter CVOC Plume is referred to as a "temporary flow path" in Table 1. With the exception of monitoring well FMW-141, located west of the temporary groundwater divide, and monitoring well MW113, located in the approximate vicinity of the temporary groundwater divide, the current concentrations of CVOCs at selected Groundwater Monitoring Program wells are low compared to CVOC concentrations within the radius of influence of the BMR-Dexter Property dewatering system.

The frequency of sampling at each well has been selected based on the location of the well along the temporary flow paths and proximity to the BMR-Dexter CVOC Plume. All wells will be sampled prior to start-up and after shut-down of the Block 38 West construction dewatering system to obtain baseline and completion groundwater quality data.

<sup>&</sup>lt;sup>11</sup> Based on data reported in the Draft RI/FS Report.



Sampling frequencies for selected wells included in the Groundwater Monitoring Program are described below:

- Monthly Sampling Events (dewatering wells DW-16, DW-17, and DW-18; interim action well IA-1; and geotechnical well GEI-2): These wells are located adjacent to Block 38 West or immediately up-gradient of Block 38 West on Block 37. This frequency of monitoring will support near-term decision making for treatment options of the extracted groundwater.
- Monthly and/or Bimonthly Sampling Events (monitoring wells MW113, MW119, FMW-129, FMW-140, and FMW-141): These wells are located within the current footprint of the BMR-Dexter CVOC Plume in areas further from Block 38 West than the wells to be sampled monthly.
  - CVOC mass<sup>12</sup> migrating on temporary flow paths passing monitoring wells MW119, FMW-129, and FMW-140 during the first few months of Block 38 West construction dewatering system operation will reach Block 38 West. CVOC mass migrating on temporary flow paths passing these wells after approximately 4 to 5 months of operation will not reach the Block 38 West construction dewatering system before it is turned off; therefore, the frequency of monitoring will be decreased during the latter half of operation of the Block 38 West construction dewatering system.
  - CVOC mass at monitoring well MW113 may not be captured by the Block 38 West construction dewatering system because of its position relative to the temporary groundwater divide, where the gradient will be relatively flat and the groundwater flow velocity correspondingly low.
  - CVOC mass<sup>13</sup> at monitoring well FMW-141 will be within the radius of influence of the BMR-Dexter Property construction dewatering system and will not migrate toward Block 38 West during concurrent dewatering at both properties.
- Bimonthly Sampling Events (monitoring wells MW128 and FMW-131, and interim action well IA-4): These wells are located at the northeastern edge of the current BMR-Dexter CVOC Plume footprint. The temporary flow paths at these wells will be southerly during operation of the Block 38 West construction dewatering system. It is expected that CVOC concentrations to the north of these wells will be less than the proposed screening levels for the American Linen Supply Co. Dexter Avenue Site and may be less than laboratory reporting limits. As Block 38 West construction dewatering progresses, CVOC concentrations are expected to decline at monitoring wells MW128 and FMW-131 and remain reported non-detect at interim action well IA-4. A bimonthly sampling frequency for these wells will be sufficient to confirm the expected trend of CVOC concentrations at this area of the BMR-Dexter CVOC Plume.

<sup>&</sup>lt;sup>12</sup> CVOCs, including cDCE and vinyl chloride. TCE may potentially reach the Block 38 West construction dewatering system. PCE is not anticipated to reach the Block 38 West construction dewatering system.

<sup>&</sup>lt;sup>13</sup> Including PCE and PCE breakdown products.

P:\397 Vulcan\397061 North & West CVOC Plume Block 38 West\Deliverables\2019-12 GWM Program TM\2019-12 B38W GW Monitoring Rationale TM.docx



• No Sampling During Construction Dewatering (monitoring wells FMW-137 and FMW-138): Groundwater monitoring at other wells near monitoring well FMW-137 make it unnecessary to collect groundwater samples at this location during dewatering. The temporary flow path at monitoring well FMW-138 will be from south to north and is not associated with the area of the BMR-Dexter CVOC Plume that currently exceeds screening levels (Figure 2). Monitoring wells FMW-137 and FMW-138 will be sampled prior to start-up and after shut-down of the Block 38 West construction dewatering system to obtain baseline and completion groundwater quality data.

The data collected during the Groundwater Monitoring Program will be used to make any necessary modifications to the dewatering treatment system to maintain compliance with established Indicator Levels as required under Administrative Order Docket No. 16592. Groundwater monitoring data will also document the anticipated reduction in CVOC mass within the eastern portion of the BMR-Dexter CVOC Plume.

Shallow groundwater will not be monitored during the Groundwater Monitoring Program because no residual source of CVOCs to shallow groundwater has been identified in the area northwest of Block 38 West and east-southeast of the BMR-Dexter Property within the footprint of the BMR-Dexter CVOC Plume. Documentation supporting this finding is in preparation and will be provided to Ecology under separate cover.

Attachments: Figure 1, South Lake Union Vicinity

Figure 2, Schematic of Groundwater Flow Concurrent Construction Dewatering Figure 3, Historical Groundwater CVOC Results Groundwater Performance Monitoring Well Network Table 1, Groundwater Monitoring Rationale

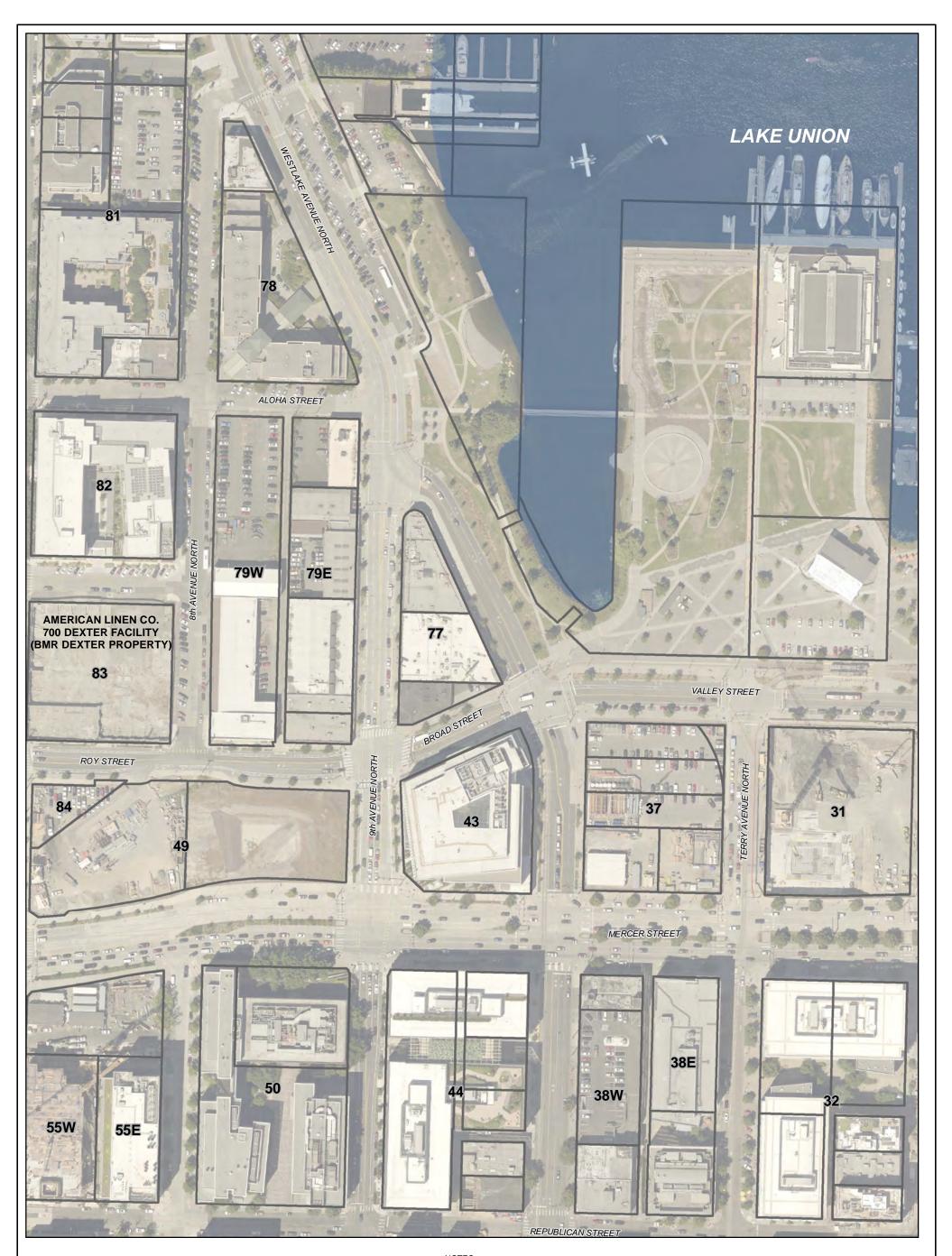
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### FIGURES

### GROUNDWATER MONITORING PROGRAM South Lake Union Block 38 West Property Seattle, Washington

Farallon PN: 397-061



### LEGEND

KING COUNTY PARCEL BOUNDARY

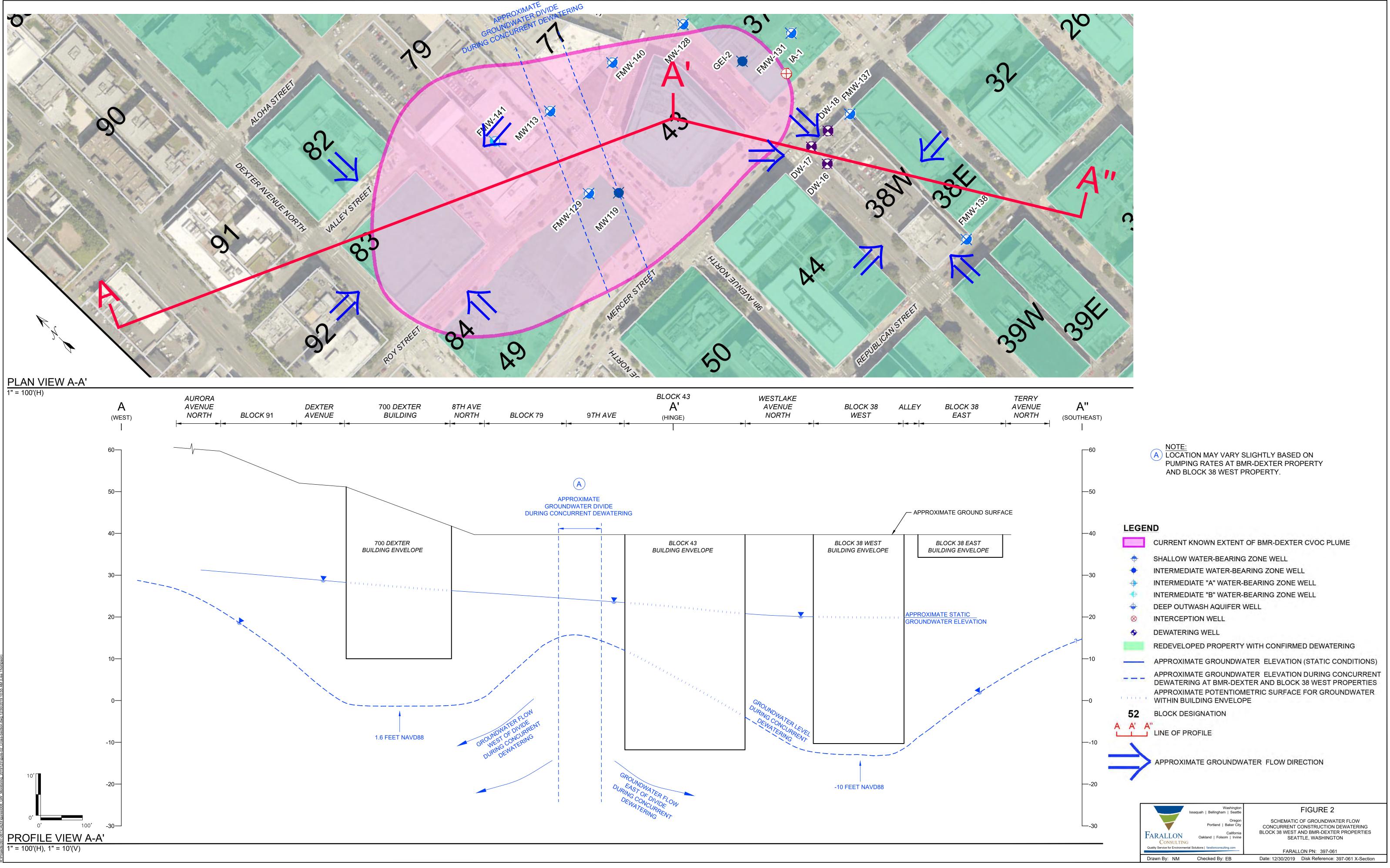
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**52** BLOCK DESIGNATION

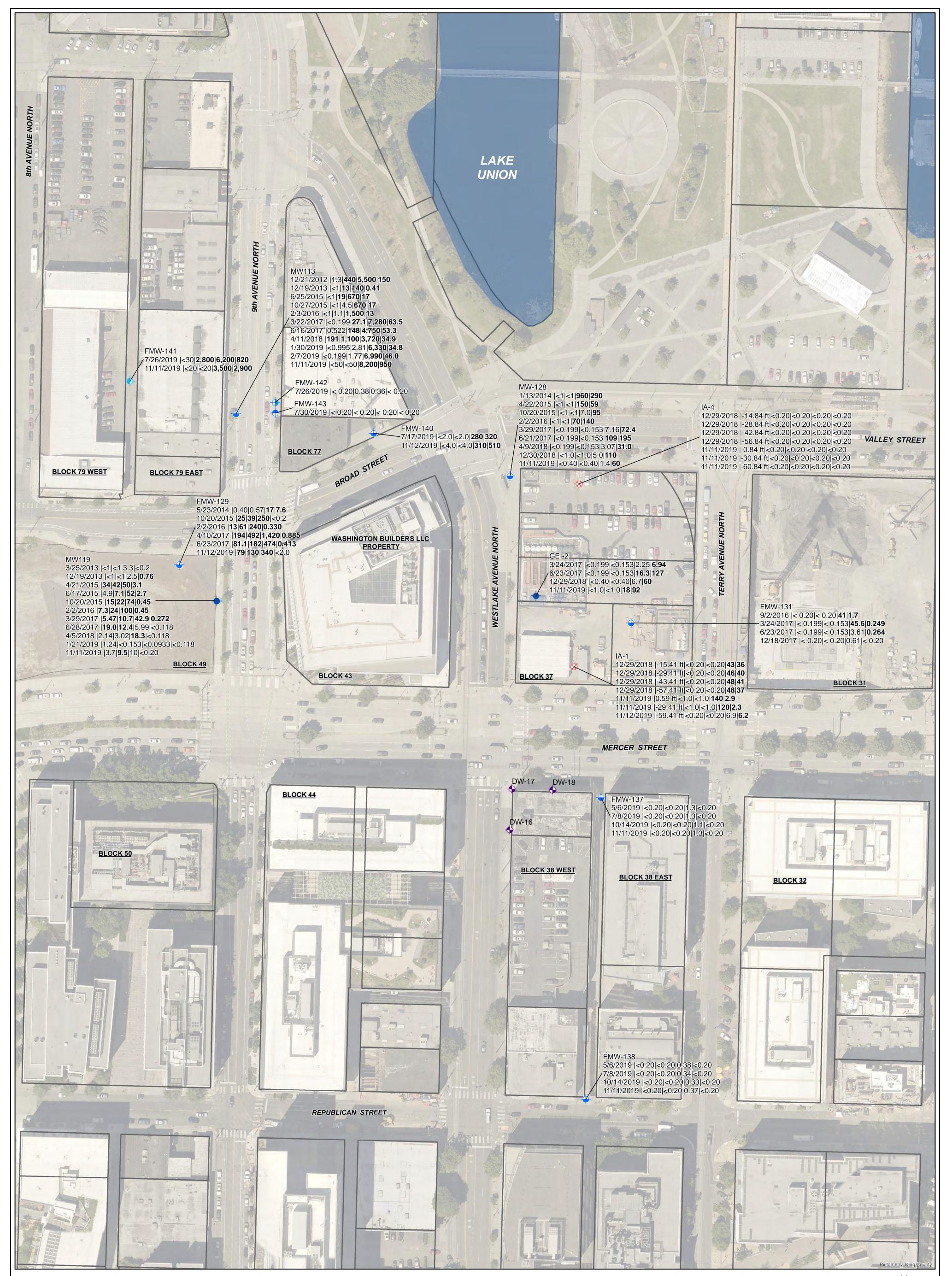
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NOTES: 1. ALL LOCATIONS ARE APPROXIMATE. 2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

	Washington Issaquah   Bellingham   Seattle	FIGURE 1	
-	Oregon Portland   Baker City	SOUTH LAKE UNION VICINI GROUNDWATER PERFORMAI	
FARALLON Consulting	California Oakland   Folsom   Irvine	MONITORING PROGRAM RATIC BLOCK 38 WEST PROPERTY A SEATTLE, WASHINGTON	
Quality Service for Environmental	Solutions   farallonconsulting.com		
		FARALLON PN: 397-061	
Drawn By: jjones	Checked By: EB	Date: 12/30/2019	Disc Reference:
	Path: \\edgefs02\GIS\Projects\397 \/ULC	AN\061 Block 38 CVOCs\Mapfiles\008 GW Monitoring\Figure-0	1 SLU VicinityMap mxd



BLOCK 79	9TH AVE	BLOCK 43 A' (HINGE)	WESTLAKE AVENUE NORTH	BLOCK 38 WEST	ALLEY	BLOCK 38 EAST	TERR AVENU NORT
-							



### **LEGEND**

- SHALLOW WATER-BEARING ZONE WELL
- INTERMEDIATE WATER-BEARING ZONE WELL
- INTERMEDIATE "A" WATER-BEARING ZONE WELL
- INTERMEDIATE "B" WATER-BEARING ZONE WELL
- DEEP OUTWASH AQUIFER WELL
- **8** INTERCEPTION WELL
- ♦ DEWATERING WELL

KING COUNTY PARCEL BOUNDARY

CONCENTRATIONS REPORTED AS: SAMPLE DATE   PCE   TCE   cis-1,2-DCE   VC
EXCEPT FOR WELLS IA-1 AND IA-4
IA-1 AND IA-4 REPORTED AS:
SAMPLE DATE   SAMPLE ELEVATION IN FEET NAVD88   PCE   TCE   cis-1,2-DCE   VC
ANALYTICAL RESULTS IN MICROGRAMS PER LITER

- **BOLD** = CONCENTRATIONS THAT EXCEED THE MTCA CLEANUP LEVEL
- < = ANALYTE NOT DETECTED AT OR EXCEEDING THE LABORATORY REPORTING LIMIT LISTED
- CVOC = CHLORINATED VOLATILE ORGANIC COMPOUND
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- cis-1,2-DCE = cis-1,2-DICHLOROETHENE
  - VC = VINYL CHLORIDE
- NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988 MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

NOTES: 1. ALL LOCATIONS ARE APPROXIMATE. 2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.



Issa FARALLON CONSULTING Quality Service for Environmental Solutions	Washington aquah   Bellingham   Seattle Oregon Portland   Baker City California Oakland   Folsom   Irvine farallonconsulting.com	FIGURE 3 HISTORICAL GROUNDWATER CVOC RESULTS GROUNDWATER PERFORMANCE MONITORING WELL NETWORK BLOCK 38 WEST PROPERTY AREA SEATTLE, WASHINGTON FARALLON PN: 397-061
Drawn By: jjones	Checked By: EB	Date: 12/30/2019 Disc Reference: Path: Q:\Projects\397 VULCAN\061 Block 38 CVOCs\Mapfiles\008_GW_Monitoring\Figure-03_GW_CVOCs.mxd

### TABLE

### GROUNDWATER MONITORING PROGRAM South Lake Union Block 38 West Property Seattle, Washington

Farallon PN: 397-061

### Table 1 Rationale Deep Outwash Aquifer Groundwater Performance Monitoring South Lake Union Area Block 38 West Property Seattle, Washington Farallon PN: 397-061

			-	
Well No.	Well Screen Completion Depth (feet bgs)	Well Screen Completion Elevation (feet)	Well Classification	Selection Rationale
			1	City Mega Block (Southwest of 9 <sup>th</sup> Avenue North and Broad Street)
MW119	35.0 to 45.0	2.74 to -7.26	Intermediate	Intermediate monitoring well located on a temporary southeasterly flow path within the predicted radius of influence system.
FMW-129	84.2 to 89.2	-45.56 to -50.56	Deep	Deep Outwash Aquifer monitoring well located on a temporary southeasterly flow path within the predicted radius of Block 38 West. Monitoring well FMW-129 is anticipated to be beyond the radius of influence of the BMR-Dexter Proconcurrent dewatering with Block 38 West.
			•	Block 37 Property
GEI-2	50.5 to 60.5	-21.12 to -31.12	Intermediate/Deep	Intermediate/Deep Outwash Aquifer monitoring well within the predicted radius of influence of the Block 38 West c temporarily flow more directly south relative to static conditions.
MW128	60 to 70	-30.80 to -40.80	Deep	Deep Outwash Aquifer monitoring well within the predicted radius of influence of the Block 38 West construction de more directly south relative to static conditions.
FMW-131	62.5 to 72.5	-34.65 to -44.65	Deep	Deep Outwash Aquifer monitoring well within the predicted radius of influence of the Block 38 West construction de construction dewatering at Block 38 West will be similar to static conditions.
IA-1 <sup>2</sup>	32 to 92	0.59 to -59.41	Deep	Interim action well within the predicted radius of influence of the Block 38 West construction dewatering system. The reconnaissance sampling of Intermediate Water-Bearing Zone and Deep Outwash Aquifer groundwater proximate to construction dewatering at Block 38 West will be similar to static conditions.
IA-4 <sup>2</sup>	32 to 92	-0.84 to -60.84	Deep	Interim action well within the predicted radius of influence of the Block 38 West construction dewatering system. The reconnaissance sampling of Intermediate Water-Bearing Zone and Deep Outwash Aquifer groundwater slightly beyo of the BMR-Dexter CVOC Plume.
				Block 38 Property
FMW-137	72.0 to 85.0	-44.9 to -57.9	Deep	Deep Outwash Aquifer monitoring well northeast-adjacent to the Block 38 West construction dewatering system.
FMW-138	90.0 to 100.0	-45.96 to -55.96	Deep	Deep Outwash Aquifer monitoring well southeast-adjacent to the Block 38 West construction dewatering system.
DW-16 <sup>3</sup>	24 to 64	10 to -30	Dewatering	Dewatering well at the northern end of the western edge of Block 38 West. Samples collected from this and adjacent the highest relative impacts from the BMR-Dexter CVOC Plume, if observed.
DW-17 <sup>3</sup>	22 to 62	10 to -30	Dewatering	Dewatering well at the northwestern corner of Block 38 West. Samples collected from this and adjacent dewatering v impacts from the BMR-Dexter CVOC Plume, if observed.
DW-18 <sup>3</sup>	21 to 61	10 to -30	Dewatering	Dewatering well on the northern portion of Block 38 West. Samples collected from this and adjacent dewatering wel relative impacts from the BMR-Dexter CVOC Plume, if observed.

ce of the Block 38 West construction dewatering

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dewatering system. Groundwater flow direction during

The screened interval of this well allows for to Block 38 West. Groundwater flow direction during

The screened interval of this well allows for yond the northeastern boundary of the current footprint

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vells are expected to quantify some of the highest

### Table 1 Rationale Deep Outwash Aquifer Groundwater Performance Monitoring South Lake Union Area Block 38 West Property Seattle, Washington Farallon PN: 397-061

Well No.	Well Screen Completion Depth (feet bgs)	Well Screen Completion Elevation (feet)	Well Classification	Selection Rationale
				Block 77 Property
FMW-140	70.0 to 80.0	-38.0 to -48.0	Deep	Deep Outwash Aquifer monitoring well near the edge of the predicted radius of influence of the Block 38 West const dewatering at the 700 Dexter Property. Block 38 West construction dewatering influence on groundwater flow direct
Block 79 Property				
FMW-141	47.6 to 57.5	-12.45 to -22.35	Intermediate	Intermediate Zone monitoring well within the radius of influence of the BMR-Dexter Property construction dewatering Block 38 West construction dewatering system.
MW113	70.0 to 80.0	-36.80 to -46.80	Deep	Deep Outwash Aquifer monitoring well at the outer limit of the estimated radius of influence of the Block 38 West construction dewatering at the 700 Dexter Property. Block 38 West construction dewatering influence on groundwater flow direct

NOTES:

<sup>1</sup> Construction dewatering at Block 38 West is scheduled to begin in late December 2019.

<sup>2</sup> Low-flow samples to be collected at top, middle, and bottom of interim action well screen (60-foot total installed length).

<sup>3</sup> Groundwater collected from sampling port installed at well header during construction dewatering.

Intermediate = Intermediate Water-Bearing Zone

Deep = Deep Outwash Aquifer

nstruction dewatering system during concurrent ection is expected to be limited.

ering system and beyond the radius of influence of the

t construction dewatering system during concurrent ection is expected to be limited.

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
	(	City Mega Block (south	west of 9th Avenue N	North and Broad Street	)	
				11/11/2019	21.81	16.50
				12/18/2019	21.90	16.41
				3/24/2020	27.41	10.90
				4/27/2020	29.19	9.12
FMW-129	84.2 to 89.2	-45.56 to -50.56	38.31	5/19/2020	29.42	8.89
				7/28/2020	29.05	9.26
				9/17/2020	30.06	8.25
				12/3/2020	29.45	8.86
				2/14/2022	20.30	18.01
				11/11/2019	20.74	16.68
				1/14/2020	22.51	14.91
				2/18/2020	25.60	11.82
				3/24/2020	28.36	9.06
				4/27/2020	29.24	8.18
MW-119	35.0 to 45.0	2.74 to -7.26	37.42	5/19/2020	29.53	7.89
				7/28/2020	30.07	7.35
				9/17/2020	32.21	5.21
				12/3/2020	29.40	8.02
				2/10/2021	24.85	12.57
				2/14/2022	18.83	18.59

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
			Block 37 Property			
				11/11/2019	13.82	15.56
				12/18/2019	14.00	15.38
				1/14/2020	16.50	12.88
				2/17/2020	20.78	8.60
				3/24/2020	22.52	6.86
				4/27/2020	23.01	6.37
GEI-2	50.5 to 60.5	-21.12 to -31.12	29.38	6/29/2020	22.98	6.40
				7/29/2020	23.53	5.85
				8/26/2020	23.51	5.87
				9/17/2020	23.32	6.06
				12/3/2020	22.85	6.53
				2/10/2021	18.20	11.18
				2/14/2022	12.02	17.36

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
				11/11/2019	16.85	15.74
				1/14/2020	19.91	12.68
				2/17/2020	25.38	7.21
				3/24/2020	27.15	5.44
				4/27/2020	27.24	5.35
				6/29/2020	27.45	5.14
IA-1	32.0 to 92.0	0.59 to -59.41	32.59	7/28/2020	28.06	4.53
				8/26/2020	28.05	4.54
				9/17/2020	27.71	4.88
				12/3/2020	26.92	5.67
				2/10/2021	21.26	11.33
				2/14/2022	14.3	18.29
				5/16/2022	13.56	19.03
				11/11/2019	14.35	16.81
				2/17/2020	19.61	11.55
				4/27/2020	21.81	9.35
				6/29/2020	21.25	9.91
IA-4	32.0 to 92.0	-0.84 to -60.84	31.16	8/26/2020	22.05	9.11
				12/3/2020	21.74	9.42
				2/10/2021	18.11	13.05
				2/14/2022	12.91	18.25
				5/16/2022	12.04	19.12

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
				11/11/2019	12.49	16.10
				2/17/2020	18.11	10.48
				4/27/2020	20.15	8.44
MW-128	60 to 70	20.80 to 10.80	28.50	6/29/2020	20.13	8.46
WIW-128	001070	-30.80 to -40.80	28.59	8/26/2020	20.55	8.04
				12/3/2020	20.21	8.38
				2/10/2021	16.38	12.21
				2/14/2022	11.00	17.59
				11/11/2019	12.13	15.72
				12/18/2019	12.31	17.78
				2/17/2020	20.13	7.72
				4/27/2020	22.45	5.40
FMW-131	62.5 to 72.5	-34.65 to -44.65	27.85	6/29/2020	22.34	5.51
				8/26/2020	23.55	4.30
				12/3/2020	22.11	5.74
				2/10/2021	17.24	10.61
				2/14/2022	10.37	17.48

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
			Block 38 Property			
				11/20/2018	13.02	17.07
				12/28/2018	12.74	17.35
				3/14/2019	ng Date $(feet)^3$ 2018 $13.02$ 2018 $12.74$ 2019 $12.56$ 019 $12.08$ 019 $12.25$ 2019 $12.95$ 2019 $14.04$ 2019 $14.16$ 2022 $12.85$ 2018 $24.50$ 2019 $24.14$ 019 $23.80$ 019 $24.04$ 2019 $24.04$ 2019 $24.55$ 2019 $24.51$ 2019 $24.31$	17.53
				5/6/2019	12.08	18.01
FMW-137	72.0 to 85.0	-44.9 to -57.9	30.09	7/8/2019	12.25	17.84
				10/14/2019	12.95	17.14
				11/11/2019	14.04	16.05
				12/18/2019	14.16	15.93
				2/14/2022	12.85	17.24
				11/20/2018	24.50	15.94
				12/28/2018	24.38	16.06
				3/14/2019	24.14	16.30
				5/6/2019	23.80	16.64
<b>ENAN</b> 120	00.0 / 100.0	45.00 + 55.00	40.44	7/8/2019	23.84	16.60
FMW-138	90.0 to 100.0	-45.96 to -55.96	40.44	10/14/2019	24.04	16.40
				11/11/2019	24.55	15.89
				12/18/2019	24.51	5.58
				2/14/2022	24.31	5.78
				5/16/2022	24.00	6.09

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
			Block 77 Property			
				11/11/2019	15.36	16.35
				12/18/2019	15.54	16.17
				1/14/2020	17.22	14.49
				2/17/2020	20.28	11.43
				3/24/2020	22.04	9.67
FMW-140	70.0 to 80.0	-38.29 to -48.29	31.71	4/27/2020	22.43	9.28
				7/28/2020	23.07	8.64
				9/17/2020	23.23	8.48
				12/3/2020	22.70	9.01
				2/10/2021	19.05	12.66
				2/14/2022	13.83	17.88

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
			<b>Block 79 Property</b>			
				11/11/2019	18.63	16.52
				12/18/2019	18.84	16.31
				1/14/2020	/14/2020 20.03	15.12
				2/17/2020	22.42	12.73
				3/24/2020	24.47	10.68
FMW-141	47.5 to 57.5	-12.35 to -22.35	35.15	4/27/2020	25.19	9.96
				7/28/2020	25.51	9.64
				9/17/2020	25.66	9.49
				12/3/2020	24.79	10.36
				2/10/2021	21.30	13.85
				2/14/2022	16.45	18.70

Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Monitoring Date	Depth to Water (feet) <sup>3</sup>	Water Level Elevation (feet NAVD88) <sup>2</sup>
				11/11/2019	16.41	16.49
				1/14/2020	18.04	14.86
				2/17/2020	20.79	12.11
				3/24/2020	22.72	10.18
				4/27/2020	23.19	9.71
MW-113	70.0 to 80.0	-36.80 to -46.80	32.90	5/19/2020	23.38	9.52
				7/28/2020	23.72	9.18
				9/17/2020	23.89	9.01
				12/3/2020	23.34	9.56
				2/10/2021	19.80	13.10
				2/14/2022	14.58	18.32

Notes:

<sup>1</sup>Depth in feet below ground surface.

<sup>2</sup>In feet North American Vertical Datum of 1988.

<sup>3</sup>In feet below top of well casing.

bgs = below ground surface NS = not surveyed

							C I		Analytical R	esults (microgra	ms per liter) <sup>3</sup>						
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	TCE	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio				
					Monitoring V	Vell Groundwa	ater Samples										
					City Mega Block (southwes	t of 9th Avenu	e North and Broa	d Street)									
			5/23/2014	Farallon	F-MW-129-052314		48.06 <sup>4</sup>	0.40	0.57	17	< 0.20	7.6	2.2				
			10/20/2015	SES			48.06 <sup>4</sup>	25	39	250	< 1	< 0.2					
			2/2/2016	SES			48.06 <sup>4</sup>	13	61	240	< 1	0.33	727				
			4/10/2017	PES			48.06 <sup>4</sup>	194	492	1,420	5.05	<b>0.885</b> J	1,605				
			6/23/2017	PES			48.06 <sup>4</sup>	81.1	182	474	1.21	0.413	1,148				
			5/1/2019	PES			48.06 <sup>4</sup>	101	166	372	1.22	< 0.59					
			7/16/2019	PES			48.06 <sup>4</sup>	159	84.1	272	1.61	<b>0.296</b> J	919				
							_		10/21/2019	PES			48.06 <sup>4</sup>	114	198	350	1.61
			11/12/2019	Farallon	FMW-129-111219	86.7	-48.06	79	130	340	< 2.0	< 2.0					
FMW-129	84.2 to 89.2	-45.56 to -50.56	1/14/20205	Farallon	FMW-129-011420	86.7	-48.06	130	170	290	< 2.0	< 2.0					
			1/14/2020 <sup>5</sup>	PES			48.06 <sup>4</sup>	113	170	385	1.60	< 1.18					
			2/18/2020	Farallon	FMW-129-021820	86.7	-48.06	110	170	310	< 2.0	< 2.0					
			3/25/2020	Farallon	FMW-129-032520	86.7	-48.06	88	140	290	< 2.0	2.6	111.5				
			4/27/2020	Farallon	FMW-129-042720	86.7	-48.06	74	88	190	< 1.0	< 1.0					
			5/19/2020	Farallon	FMW-129-051920	86.7	-48.06	18	42	120	< 1.0	6.5	18.5				
			7/28/2020	Farallon	MW-129-072820	86.7	-48.06	5.4	11	100	< 0.80	< 0.80					
			9/17/2020	Farallon	FMW-129-091720	86.7	-48.06	6.1	13	70	< 0.40	0.85	82.4				
			12/3/2020	Farallon	FMW-129-120320	86.7	-48.06	9.0	14	57	< 0.40	< 0.40					
			2/10/2021	Farallon	MW-129-021021	86.7	-48.06	1.9	4.6	31	< 0.20	< 0.20					
MTCA Cleanuj	p Levels for Ground	lwater <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	160 <sup>7</sup>	0.2					

									Analytical R	esults (microgra	ms per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
				City N	Aega Block (southwest of 9th	h Avenue Nort	th and Broad Stre	et) (continued)					
			3/25/2013	SES			-2.26 <sup>4</sup>	< 1	< 1	3.3	< 1	< 0.2	
			12/19/2013	SES			-2.26 <sup>4</sup>	< 1	< 1	2.5	< 1	0.76	3.3
			4/21/2015	SES			-2.26 <sup>4</sup>	34	42	50	< 1	3.1	16
			6/17/2015	SES			-2.26 <sup>4</sup>	4.9	7.1	52	< 1	2.7	19
			10/20/2015	SES			-2.26 <sup>4</sup>	15	22	74	< 1	0.45	164
			2/2/2016	SES			-2.26 <sup>4</sup>	7.3	24	100	< 1	0.45	222
			3/29/2017	PES			-2.26 <sup>4</sup>	5.47	10.7	42.9	0.334 J	<b>0.272</b> J	158
			6/28/2017	PES			-2.26 <sup>4</sup>	19.0	12.4	5.99	0.167 J	< 0.118	
			4/5/2018	PES			-2.264	2.14	3.02	18.3	0.203 J	< 0.118	
MW-119	35.0 to 45.0	2.74 to -7.26	1/21/2019	PES			-2.26 <sup>4</sup>	1.24	< 0.153	< 0.0933	< 0.152	< 0.118	
_			11/11/2019	Farallon	MW-119-111119	40.0	-2.26	3.7	9.5	10	< 0.20	< 0.20	
			1/14/2020	Farallon	MW119-011420	40.0	-2.26	4.8	5.1	7.4	< 0.20	< 0.20	
			2/18/2020	Farallon	MW-119-021820	40.0	-2.26	1.3	2.5	6.6	< 0.20	< 0.20	
			3/24/2020	Farallon	MW119-032420	40.0	-2.26	0.24	0.87	4.7	< 0.20	< 0.20	
			4/27/2020	Farallon	MW-119-042720	40.0	-2.26	0.32	1.3	5.1	< 0.20	< 0.20	
			5/19/2020	Farallon	MW-119-051920	40.0	-2.26	0.91	2.8	6.1	< 0.20	< 0.20	
			7/28/2020	Farallon	MW-119-072820	40.0	-2.26	0.92	2.6	7.5	< 0.20	< 0.20	
			9/17/2020	Farallon	MW-119-091720	40.0	-2.26	0.27	1.8	7.8	< 0.20	< 0.20	
			12/3/2020	Farallon	MW-119-120320	40.0	-2.26	0.28	1.2	6.6	< 0.20	< 0.20	
			2/10/2021	Farallon	MW-119-021021	40.0	-2.26	< 0.20	0.46	5.0	< 0.20	< 0.20	
MTCA Cleanu	p Levels for Ground	lwater <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

							<b>C I</b>		Analytical R	esults (microgram	ms per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
					Blo	ock 37 Propert	y						
			3/24/2017	PES			$-26.12^4$	< 0.199	< 0.153	2.25	< 0.152	6.94	0.3
			6/23/2017	PES			-26.12 <sup>4</sup>	< 0.199	< 0.153	16.3	< 0.152	127	0.1
			12/29/2018	Farallon	GEI-2-122918	56.0	-26.62	< 0.40	< 0.40	6.7	< 0.40	60	0.1
			4/22/2019	PES			-26.12 <sup>4</sup>	< 0.199	< 0.153	11.5	< 0.152	<b>57.7</b> J	0.2
			7/16/2019	PES			$-26.12^4$	< 0.199	< 0.153	1.37	< 0.152	46.4	0.03
			10/21/2019	PES			-26.12 <sup>4</sup>	< 0.199	< 0.153	20.1	< 0.152	88.2	0.2
			11/11/2019	Farallon	GEI-2-111119	56.0	-26.62	< 1.0	< 1.0	18	< 1.0	92	0.2
			1/14/2020	Farallon	GEI-2-011420	56.0	-26.62	< 0.20	< 0.20	2.0	< 0.20	36	0.1
			1/22/2020	PES			-26.12 <sup>4</sup>	< 0.199	0.192 J	0.308 J	< 0.152	< 0.118	
GEI-2	50.5 to 60.5	-21.12 to -31.12	2/17/2020	Farallon	GE1-2-021720	56.0	-26.62	< 0.20	< 0.20	5.6	< 0.20	34	0.2
			3/25/2020	Farallon	GEI-2-032520	56.0	-26.62	< 0.40	< 0.40	4.3	< 0.40	52	0.1
			4/27/2020	Farallon	GEI-2-042720	56.0	-26.62	< 0.40	< 0.40	3.2	< 0.40	50	0.1
			5/19/2020	Farallon	GEI-2-051920	56.0	-26.62	< 0.40	< 0.40	2.7	< 0.40	55	0.05
			6/29/2020	Farallon	GEI-2-062920	56.0	-26.62	< 0.20	< 0.20	1.6	< 0.20	33	0.05
			7/29/2020	Farallon	GEI-2-072920	56.0	-26.62	< 0.20	< 0.20	1.3	< 0.20	46	0.03
			8/26/2020	Farallon	GEI-2-082620	56.0	-26.62	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			9/17/2020	Farallon	GEI-2-091720	56.0	-26.62	< 0.40	< 0.40	1.0	< 0.40	48	0.02
			12/4/2020	Farallon	GEI-2-120420	56.0	-26.62	< 0.20	< 0.20	0.52	< 0.20	21	0.02
			2/11/2021	Farallon	GEI-2-021121	56.0	-26.62	< 0.20	< 0.20	0.43	< 0.20	16	0.03
MTCA Cleanu	p Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

									Analytical <b>R</b>	esults (microgram	ns per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
	(	( ,	r r	in Pra J	*	Property (con							
			12/29/2018	Farallon	IA1-48-122918	48.0	-15.41	< 0.20	< 0.20	43	< 0.20	36	1.2
		-	12/29/2018	Farallon	IA1-62-122918	62.0	-29.41	< 0.20	< 0.20	46	< 0.20	40	1.2
		-	12/29/2018	Farallon	IA1-76-122918	76.0	-43.41	< 0.20	< 0.20	48	< 0.20	41	1.2
		-	12/29/2018	Farallon	IA1-90-122918	90.0	-57.41	< 0.20	< 0.20	48	< 0.20	37	1.3
			11/11/2019	Farallon	IA-1-111119-32.0	32.0	0.59	< 1.0	< 1.0	140	< 1.0	2.9	48.3
			11/11/2019	Farallon	IA-1-111119-62.0	62.0	-29.41	< 1.0	< 1.0	120	< 1.0	2.3	52.2
			11/12/2019	Farallon	IA-1-111219-92.0	92.0	-59.41	< 0.20	< 0.20	6.9	< 0.20	6.2	1.1
			1/14/2020	Farallon	IA-1-011420-32.0	32.0	0.59	< 0.40	< 0.40	72	< 0.40	30	2.4
			1/14/2020	Farallon	IA-1-011420-62.0	62.0	-29.41	< 1.0	< 1.0	89	< 1.0	130	0.7
			1/14/2020	Farallon	IA-1-011420-92.0	92.0	-59.41	< 1.0	< 1.0	89	< 1.0	130	0.7
			2/17/2020	Farallon	IA-1-021720-32.0	32.0	0.59	< 0.40	< 0.40	45	< 0.40	3.1	14.5
			2/17/2020	Farallon	IA-1-021720-62.0	62.0	-29.41	< 0.40	< 0.40	49	< 0.40	3.5	14.0
			2/17/2020	Farallon	IA-1-021720-92.0	92.0	-59.41	< 1.0	< 1.0	100	< 1.0	100	1.0
			3/25/2020	Farallon	IA-1-32.0-032520	32.0	0.59	< 0.20	< 0.20	38	< 0.20	5.6	6.8
			3/25/2020	Farallon	IA-1-62.0-032520	62.0	-29.41	< 0.40	< 0.40	88	< 0.40	78	1.1
			3/25/2020	Farallon	IA-1-92.0-032520	92.0	-59.41	< 0.40	< 0.40	92	< 0.40	84	1.1
		-	4/27/2020	Farallon	IA-1-32.0-042720	32.0	0.59	< 0.20	< 0.20	32	< 0.20	1.3	24.6
			4/27/2020	Farallon	IA-1-62-042720	62.0	-29.41	< 0.40	< 0.40	73	< 0.40	36	2.0
			4/27/2020	Farallon	IA-1-92-042720	92.0	-59.41	< 0.40	< 0.40	62	< 0.40	39	1.6
IA-1	32.0 to 92.0	0.59 to -59.41	5/19/2020	Farallon	IA-1-32.0-051920	32.0	0.59	< 0.20	< 0.20	32	< 0.20	1.1	29.1
17 1-1	52.0 10 92.0	0.5710-59.41	5/19/2020	Farallon	IA-1-62.0-051920	62.0	-29.41	< 0.40	< 0.40	66	< 0.40	37	1.8
			5/19/2020	Farallon	IA-1-92.0-051920	92.0	-59.41	< 0.40	< 0.40	54	< 0.40	29	1.9
		_	6/29/2020	Farallon	IA-1-32.0-062920	32.0	0.59	< 0.20	< 0.20	22	< 0.20	0.87	25.3
		_	6/29/2020	Farallon	IA-1-62.0-062920	62.0	-29.41	< 0.20	< 0.20	39	< 0.20	14	2.8
			7/1/2020	Farallon	IA1-92.0-07012020	92.0	-59.41	< 0.20	< 0.20	36	< 0.20	13	2.8
		_	7/29/2020	Farallon	IA-1-072920-32	32.0	0.59	< 0.20	< 0.20	25	< 0.20	1.2	20.8
			7/29/2020	Farallon	IA-1-072920-62	62.0	-29.41	< 0.20	< 0.20	27	< 0.20	12	2.3
			7/29/2020	Farallon	IA-1-072920-92	92.0	-59.41	< 0.20	< 0.20	32	< 0.20	14	2.3
			8/26/2020	Farallon	IA1-32.0-082620	32.0	0.59	< 0.20	< 0.20	32	< 0.20	1.2	26.7
			8/26/2020	Farallon	IA1-62.0-082620	62.0	-29.41	< 0.20	< 0.20	37	< 0.20	14	2.6
			8/26/2020	Farallon	IA1-92.0-082620	92.0	-59.41	< 0.20	< 0.20	31	< 0.20	13	2.4
			9/17/2020	Farallon	IA-1-32.0-091720	32.0	0.59	< 0.20	< 0.20	35	< 0.20	1.1	31.8
			9/17/2020	Farallon	IA-1-62.0-091720	62.0	-29.41	< 0.20	< 0.20	26	< 0.20	11	2.4
			9/17/2020	Farallon	IA-1-92.0-091720	92.0	-59.41	< 0.20	< 0.20	24	< 0.20	11	2.2
			12/4/2020	Farallon	IA1-32.0-120420	32.0	0.59	< 0.20	< 0.20	9.8	< 0.20	0.58	16.9
			12/4/2020	Farallon	IA1-62.0-120420	62.0	-29.41	< 0.20	< 0.20	13	< 0.20	8.1	1.6
			12/4/2020	Farallon	IA1-92.0-120420	92.0	-59.41	< 0.20	< 0.20	15	< 0.20	9.6	1.6
			2/11/2021	Farallon	IA1-32.0-021120	32.0	0.59	< 0.20	< 0.20	11	< 0.20	0.75	14.7
			2/11/2021	Farallon	IA1-62.0-021120	62.0	-29.41	< 0.20	< 0.20	11	< 0.20	0.81	13.6
			2/11/2021	Farallon	IA1-92.0-021120	92.0	-59.41	< 0.20	< 0.20	16	< 0.20	12	1.3
CA Cleanu	p Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	160 <sup>7</sup>	0.2	

						~ .	<u> </u>	Analytical Results (micrograms per liter) <sup>3</sup>					
Sample	Screened Interval	Screened Interval				Sample Depth	Sample Elevation						cDCE/Vinyl
Location	(feet bgs) <sup>1</sup>	(feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification		(feet NAVD88) <sup>2</sup>	PCE	ТСЕ	cDCE	tDCE	Vinyl Chloride	Chloride Ratio
					Block 37	Property (con	tinued)				•		•
			12/29/2018	Farallon	IA4-46-122918	46.0	-14.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	12/29/2018	Farallon	IA4-60-122918	60.0	-28.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	12/29/2018	Farallon	IA4-74-122918	74.0	-42.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	12/29/2018	Farallon	IA4-88-122918	88.0	-56.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			11/11/2019	Farallon	IA-4-111119-32.0	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	11/11/2019	Farallon	IA-4-111119-62.0	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	11/11/2019	Farallon	AI-4-111119-92.0	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			2/17/2020	Farallon	IA-4-021720-32.0	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-	2/17/2020	Farallon	IA-4-021720-62.0	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		-0.84 to -60.84	2/17/2020	Farallon	IA-4-021720-92.0	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
	32.0 to 92.0		4/27/2020	Farallon	IA-4-32-042720	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			4/27/2020	Farallon	IA-4-62-042720	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
IA-4			4/27/2020	Farallon	IA-4-92-042720	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			6/29/2020	Farallon	IA-4-32.0-062920	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			6/29/2020	Farallon	IA-4-62.0-062920	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			6/29/2020	Farallon	IA-4-92.0-062920	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			8/26/2020	Farallon	IA4-32.0-082620	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			8/26/2020	Farallon	IA4-62.0-082620	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			8/26/2020	Farallon	IA4-92.0-082620	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			12/4/2020	Farallon	IA4-32.0-120420	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			12/4/2020	Farallon	IA4-62.0-120420	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			12/4/2020	Farallon	IA4-92.0-120420	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			2/11/2021	Farallon	IA4-32.0-021121	32.0	-0.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			2/11/2021	Farallon	IA4-62.0-021121	62.0	-30.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			2/11/2021	Farallon	IA4-92.0-021121	92.0	-60.84	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
	62.5 to 72.5	-34.65 to -44.65	9/2/2016	Farallon			-39.65 <sup>4</sup>	< 0.20	< 0.20	41	< 0.20	1.7	24.1
			3/24/2017	PES			-39.65 <sup>4</sup>	< 0.199	< 0.153	45.6	< 0.152	<b>0.249</b> J	183
			6/23/2017	PES			-39.65 <sup>4</sup>	< 0.199	< 0.153	3.61	< 0.152	<b>0.264</b> J	14
			12/18/2017	Farallon			-39.65 <sup>4</sup>	< 0.20	< 0.20	0.61	< 0.20	< 0.20	
FN 4337 101			4/22/2019	PES			-39.65 <sup>4</sup>	< 0.199	< 0.153	10.8	< 0.152	0.195 J	55.4
FMW-131			10/21/2019	PES			-39.65 <sup>4</sup>	< 0.199	< 0.153	10.5	< 0.152	0.140 J	75.0
			1/22/2020	PES			-39.65 <sup>4</sup>	< 0.199	< 0.153	15.1	< 0.152	0.162 J	93.2
			8/26/2020	Farallon	FMW-131-082620	68.0	-40.2	< 0.20	< 0.20	6.5	< 0.20	< 0.20	
			12/4/2020	Farallon	FMW-131-120420	68.0	-40.2	< 0.20	< 0.20	3.5	< 0.20	< 0.20	
			2/11/2021	Farallon	FMW-131-021121	68.0	-40.2	< 0.20	< 0.20	0.27	< 0.20	< 0.20	
	p Levels for Ground	watar <sup>6</sup>	2.11.2021			0010		5	5	16 <sup>7</sup>	160 <sup>7</sup>	0.2	

Sample	Screened Interval	Screened Interval				Sample Depth	Sample Elevation			esults (microgra			cDCE/Vinyl
Location	(feet bgs) <sup>1</sup>	(feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	-	(feet NAVD88) <sup>2</sup>	PCE	ТСЕ	cDCE	tDCE	Vinyl Chloride	Chloride Ratio
			<u>^</u>	· · ·	Block 37	Property (con					<b></b>	•	
			1/13/2014	SES			-35.80 <sup>4</sup>	< 1	< 1	<b>960</b> E	< 1	<b>290</b> E	3.3
		-	4/22/2015	SES			-35.80 <sup>4</sup>	< 1	< 1	150	< 1	59	2.5
			10/20/2015	SES			-35.80 <sup>4</sup>	< 1	< 1	7.0	< 1	95	0.1
		-	2/2/2016	SES			-35.80 <sup>4</sup>	< 1	< 1	70	< 1	140	0.5
		-	3/29/2017	PES			-35.80 <sup>4</sup>	< 0.199	< 0.153	7.16	< 0.152	72.4	0.1
		-	6/21/2017	PES			-35.80 <sup>4</sup>	< 0.199	< 0.153	109	< 0.152	195	0.6
		-	4/9/2018	PES			-35.80 <sup>4</sup>	< 0.199	< 0.153	3.07	< 0.152	31.0	0.1
MW-128	60 to 70	-30.80 to -40.80	12/30/2018	Farallon	MW-128-123018	65.0	-35.80	< 1.0	< 1.0	5.0	< 1.0	110	0.05
		-	11/11/2019	Farallon	MW-128-111119	65.0	-35.80	< 0.40	< 0.40	1.4	< 0.40	60	0.02
		-	2/18/2020	Farallon	MW-128-021820	65.0	-35.80	< 0.40	< 0.40	1.4	< 0.40	54	0.03
			4/27/2020	Farallon	MW-128-042720	65.0	-35.80	< 0.40	< 0.40	0.87	< 0.40	51	0.02
			6/29/2020	Farallon	MW-128-062920	65.0	-35.80	< 0.20	< 0.20	0.51	< 0.20	34	0.02
			8/26/2020	Farallon	MW-128-082620	65.0	-35.80	< 0.20	< 0.20	0.46	< 0.20	29	0.02
			12/4/2020	Farallon	MW-128-120420	65.0	-35.80	< 0.20	< 0.20	0.40	< 0.20	46	0.01
			2/10/2021	Farallon	MW-128-021021	65.0	-35.80	< 0.40	< 0.40	< 0.40	< 0.40	55	
					Bl	ock 38 Propert	у						
			2/4/2020	Farallon	DW-3-020420			< 0.20	< 0.20	0.21	< 0.20	< 0.20	
DW-3	15 to 55	10 to -30	2/24/2020	Farallon	DW-3-022420			< 0.20	< 0.20	0.42	< 0.20	< 0.20	
			3/5/2020	Farallon	DW-3-030520			< 0.20	< 0.20	0.43	< 0.20	< 0.20	
	15 to 55	10 to -30	2/4/2020	Farallon	DW-4-020420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-4			2/24/2020	Farallon	DW-4-022420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			3/5/2020	Farallon	DW-4-030520			< 0.20	< 0.20	0.27	< 0.20	< 0.20	
		-	2/4/2020	Farallon	DW-5-020420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-5	15 to 55	10 to -30	2/24/2020	Farallon	DW-5-022420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			3/5/2020	Farallon	DW-5-030520			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-11	30 to 70	10 to -30	3/12/2020	Farallon	DW-11-031220			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-12	29 to 69	10 to -30	3/12/2020	Farallon	DW-12-031220			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-13	28 to 68	10 to -30	3/12/2020	Farallon	DW-13-031220			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
DW-14	27 to 67	10 to -30	3/12/2020	Farallon	DW-14-031220			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
	26 to 66	10 to -30	3/12/2020	Farallon	DW-15-031220			< 0.20	< 0.20	< 0.20	< 0.20	0.26	
			4/10/2020	Farallon	DW-15-041020			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			6/29/2020	Farallon	DW-15-062920			< 0.20	< 0.20	0.26	< 0.20	< 0.20	
DW-15			7/29/2020 8/26/2020	Farallon Farallon	DW-15-072920			< 0.20	< 0.20	0.56	< 0.20	0.36	1.6
			9/17/2020	Farallon	DW-15-082620			< 0.20	< 0.20	0.98 < 0.20	< 0.20	0.58	1.7
			12/3/2020	Farallon	DW-15-091720 DW-15-120320			< 0.20	< 0.20 < 0.20	< 0.20 0.78	< 0.20 < 0.20	< 0.20 <b>0.46</b>	1.7
			2/11/2021	Farallon	DW-13-120320 DW15-021121			< 0.20	0.69	38	< 0.20	0.46	11.7
		6	2/11/2021	1 urunon	D W 13-021121								115.2
vi i CA Cleanup	o Levels for Ground	water						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

Sample	Screened Interval	Screened Interval				Sample Depth	Sample Elevation			esults (microgra			cDCE/Vinyl
Location	(feet bgs) <sup>1</sup>	(feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	(feet bgs) <sup>1</sup>	(feet NAVD88) <sup>2</sup>	РСЕ	TCE	cDCE	tDCE	Vinyl Chloride	Chloride Ratio
					Block 38	Property (con	tinued)						
			1/4/2020	Farallon	DW-16-010420			< 0.20	< 0.20	0.29	< 0.20	< 0.20	
			1/14/2020	Farallon	DW-16-011420			< 0.20	< 0.20	1.8	< 0.20	0.32	5.6
			2/17/2020	Farallon	DW-16-021720			< 0.20	< 0.20	9.9	< 0.20	2.1	4.7
			3/5/2020	Farallon	DW-16-030520			< 0.20	< 0.20	43	< 0.20	5.9	7.3
			3/12/2020	Farallon	DW-16-031220			< 0.40	< 0.40	62	< 0.40	4.7	13.2
			4/10/2020	Farallon	DW-16-041020			< 1.0	< 1.0	160	< 1.0	2.5	64.0
DW-16		10 to 20	4/27/2020	Farallon	DW-16-042720			< 2.0	< 2.0	220	< 2.0	2.2	100.0
Dw-16	24 to 64	10 to -30	5/19/2020	Farallon	DW-16-051920			< 2.0	< 2.0	300	< 2.0	< 2.0	
			6/29/2020	Farallon	DW-16-062920			< 2.0	< 2.0	350	< 2.0	2.0	175.0
			7/29/2020	Farallon	DW-16-072920			< 2.0	< 2.0	390	2.8	2.5	156.0
			8/26/2020	Farallon	DW-16-082620			< 2.0	3.0	430	< 2.0	2.3	187.0
			9/17/2020	Farallon	DW-16-091720			< 2.0	3.1	390	< 2.0	2.7	144.4
			12/3/2020	Farallon	DW-16-120320			< 2.0	3.4	270	< 2.0	< 2.0	
			2/11/2021	Farallon	DW16-021121			< 4.0	6.9	800	< 4.0	< 4.0	
	22 to 62	10 to -30	1/4/2020	Farallon	DW-17-010420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
			1/14/2020	Farallon	DW-17-011420			< 0.20	< 0.20	< 0.20	< 0.20	3.1	
			2/17/2020	Farallon	DW-17-021720			< 0.20	< 0.20	0.46	< 0.20	12	0.04
			3/5/2020	Farallon	DW-17-030520			< 0.20	< 0.20	1.3	< 0.20	20	0.1
			4/10/2020	Farallon	DW-17-041020			< 0.20	< 0.20	5.1	< 0.20	23	0.2
			4/27/2020	Farallon	DW-17-042720			< 0.20	< 0.20	9.8	< 0.20	22	0.4
DW-17			5/19/2020	Farallon	DW-17-051920			< 0.20	< 0.20	17	< 0.20	27	0.6
			6/29/2020	Farallon	DW-17-062920			< 0.40	< 0.40	55	< 0.40	29	1.9
			7/29/2020	Farallon	DW-17-072920			< 0.40	< 0.40	94	0.42	43	2.2
			8/26/2020	Farallon	DW-17-082620			< 1.0	< 1.0	140	< 1.0	62	2.3
			9/17/2020	Farallon	DW-17-091720			< 1.0	< 1.0	180	< 1.0	72	2.5
			12/3/2020	Farallon	DW-17-120320			< 1.0	< 1.0	170	< 1.0	79	2.2
			2/11/2021	Farallon	DW17-021121			< 2.0	< 2.0	320	< 2.0	45	7.1
			1/4/2020	Farallon	DW-18A-010420			< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
		10 to -30	2/17/2020	Farallon	DW-18A-021720			< 0.20	< 0.20	< 0.20	< 0.20	11	
			3/5/2020	Farallon	DW-18A-030520			< 0.20	< 0.20	1.6	< 0.20	46	0.03
			4/10/2020	Farallon	DW-18A-041020			< 0.40	< 0.40	15	< 0.40	76	0.20
	21 to 61		4/27/2020	Farallon	DW-18A-042720			< 0.50	< 0.50	19	< 0.50	83	0.23
DW 104			5/19/2020	Farallon	DW-18A-051920			< 0.40	< 0.40	23	< 0.40	83	0.28
DW-18A			6/29/2020	Farallon	DW-18A-062920			< 0.40	< 0.40	23	< 0.40	69	0.33
			7/29/2020	Farallon	DW-18A-072920			< 0.40	< 0.40	23	< 0.40	65	0.35
			8/26/2020	Farallon	DW-18A-082620			< 0.40	< 0.40	25	< 0.40	55	0.45
			9/17/2020	Farallon	DW-18A-091720			< 0.40	< 0.40	27	< 0.40	53	0.51
			12/3/2020	Farallon	DW-18A-120320			< 0.20	< 0.20	21	< 0.20	25	0.84
			2/11/2021	Farallon	DW18A-021121			< 0.20	< 0.20	28	< 0.20	22	1.27
MTCA Cleanu	p Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	160 <sup>7</sup>	0.2	

# Table D-3Groundwater Analytical Results for CVOCsDeep Outwash Aquifer GroundwaterPerformance Monitoring ProgramSeattle, WashingtonFarallon PN: 397-061

									Analytical R	esults (microgra	ms per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
Location	(1000 053)	(leet msi)	Sample Date	Sumplea Dy	*	Property (con	× /	102	102	<b>U</b> 01	1202	, mji emoriue	
			11/20/2018	Farallon	FMW-137-112018	80.0	-52.9	< 0.20	< 0.20	1.2	< 0.20	<0.20	
			12/28/2018	Farallon	FMW-137-121818	80.0	-52.9	<0.20	<0.20	1.1	<0.20	<0.20	
			5/6/2019	Farallon									
			7/8/2019	Farallon	FMW-137-050619	80.0	-52.9	< 0.20	< 0.20	1.3	< 0.20	< 0.20	
FMW-137	72.0 to 85.0	-44.9 to -57.9	10/14/2019	Farallon	FMW-137-070819	80.0 79.0	-52.9	< 0.20	< 0.20	1.3	< 0.20 < 0.20	< 0.20	
			11/6/2019	PES	FMW-137-101419		-51.9		< 0.20	1.1		-	
			11/0/2019	Farallon			-51.4 <sup>4</sup>	< 0.199	< 0.153	1.27	< 0.152	< 0.118	
					FMW-137-111119	78.5	-51.4	< 0.20	< 0.20	1.3	< 0.20	< 0.20	
			1/22/2020	PES			-51.4 <sup>4</sup>	< 0.199	< 0.153	1.99	< 0.152	< 0.118	
			11/20/2018	Farallon	FMW-138-112018	95.0	-50.96	<0.20	<0.20	0.29	<0.20	<0.20	
			12/28/2018 5/6/2019	Farallon	FMW-138-122818	95.0	-50.96	<0.20	<0.20	0.34	<0.20	<0.20	
FMW-138	90.0 to 100.0	-45.96 to -55.96	7/8/2019	Farallon	FMW-138-050619	95.0	-50.96	< 0.20	< 0.20	0.38	< 0.20	< 0.20	
			10/14/2019	Farallon	FMW-138-070819	95.0	-50.96	< 0.20	< 0.20	0.34	< 0.20	< 0.20	
				Farallon	FMW-138-101419	95.0	-50.96	< 0.20	< 0.20	0.33	< 0.20	< 0.20	
			11/11/2019	Farallon	FMW-138-111119	95.0	-50.96	< 0.20	< 0.20	0.37	< 0.20	< 0.20	
						ock 77 Propert			1			I	T
			7/17/2019	Farallon	FMW-140-071719	75.0	-43.0	< 2.0	< 2.0	280	< 2.0	320	0.9
			10/31/2019	PES			-43.0 <sup>4</sup>	< 0.199	< 0.153	0.160 J	< 0.152	189	0.001
			11/12/2019	Farallon	FMW-140-111219	75.0	-43.0	< 4.0	< 4.0	310	< 4.0	510	0.6
			1/14/2020	Farallon	FMW-140-011420	75.0	-43.0	< 4.0	< 4.0	340	< 4.0	460	0.7
			1/22/2020	PES			-43.0 <sup>4</sup>	< 0.199	< 0.153	406	0.729	527	0.8
			2/18/2020	Farallon	FMW-140-021820	75.0	-43.0	< 4.0	< 4.0	280	< 4.0	530	0.5
FMW-140	70.0 to 80.0	-38.29 to -48.29	3/25/2020	Farallon	FMW-140-032520	75.0	-43.0	< 2.0	< 2.0	100	< 2.0	290	0.3
			4/27/2020	Farallon	MW-140-042720	75.0	-43.0	< 1.0	< 1.0	33	< 1.0	130	0.3
			5/19/2020	Farallon	FMW-140-051920	75.0	-43.0	< 1.0	< 1.0	16	< 1.0	130	0.1
			7/29/2020	Farallon	MW-140-072920	75.0	-43.0	< 1.0	< 1.0	9.7	< 1.0	170	0.1
			9/17/2020	Farallon	FMW-140-091720	75.0	-43.0	< 0.40	< 0.40	25	< 0.40	43	0.6
			12/4/2020	Farallon	FMW-140-120420	75.0	-43.0	< 0.20	< 0.20	3.3	< 0.20	18	0.2
			2/10/2021	Farallon	FMW-140-021021	75.0	-43.0	< 0.20	< 0.20	0.72	< 0.20	3.2	0.2
			7/26/2019	Farallon	FMW-142-072619	40.0	-7.1	< 0.20	0.38	0.36	< 0.20	< 0.20	
FMW-142	37.5 to 42.5	-4.63 to -9.63	10/31/2019	PES			-7.13 <sup>4</sup>	< 0.199	< 0.153	< 0.0933	< 0.152	< 0.118	
			1/22/2020	PES			-7.13 <sup>4</sup>	< 0.199	< 0.153	< 0.0933	< 0.152	< 0.118	
			7/30/2019	Farallon	FMW-143-073019	25.5	7.5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	
FMW-143	23.0 to 28.0	9.99 to 4.99	10/31/2019	PES			7.5 <sup>4</sup>	< 0.199	< 0.153	< 0.0933	< 0.152	< 0.118	
			1/22/2020	PES			7.5 <sup>4</sup>	< 0.199	< 0.153	< 0.0933	< 0.152	< 0.118	
MTCA Cleanup	) Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

# Table D-3Groundwater Analytical Results for CVOCsDeep Outwash Aquifer GroundwaterPerformance Monitoring ProgramSeattle, WashingtonFarallon PN: 397-061

						6 I			Analytical R	esults (microgra	ms per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
	•			•	Blo	ock 79 Propert	y		•	•	•	-	•
			7/26/2019	Farallon	FMW-141-072619	52.5	-17.35	< 30	2,800	6,200	< 30	820	7.6
			10/30/2019	PES			-17.35 <sup>4</sup>	< 0.199	2.18 J	<b>1,200</b> J	7.13 J	1,760	0.7
			10/30/2019 <sup>8</sup>	PES			-17.35 <sup>4</sup>	< 0.199	<b>12.7</b> J	<b>2,250</b> J	10.5 J	1,710	1.3
			11/11/2019	Farallon	FMW-141-111119	52.5	-17.35	< 20	< 20	3,500	< 20	2,900	1.2
			1/14/20205	Farallon	FMW-141-011420	52.5	-17.35	< 4.0	< 4.0	250	< 4.0	380	0.7
			1/14/2020 <sup>5</sup>	PES			-17.35 <sup>4</sup>	< 0.995	2.91	414	1.98 J	532	0.8
FMW-141	47.5 to 57.5	-12.35 to -22.35	2/17/2020	Farallon	FMW-141-021720	52.5	-17.35	< 2.0	< 2.0	280	< 2.0	240	1.2
1 101 00 1 11	17.5 to 57.5	12.55 to 22.55	3/24/2020	Farallon	FMW-141-032420	52.5	-17.35	< 10	< 10	1,200	< 10	820	1.5
			4/27/2020	Farallon	MW-141-042720	52.5	-17.35	< 2.0	6.5	440	2.1	490	0.9
			5/19/2020	Farallon	FMW-141-051920	52.5	-17.35	< 20	< 20	2,400	< 20	910	2.6
			7/28/2020	Farallon	MW-141-072820	52.5	-17.35	< 10	< 10	8,100	20	780	10.4
			9/17/2020	Farallon	FMW-141-091720	52.5	-17.35	< 4.0	< 4.0	600	< 4.0	620	1.0
			12/3/2020	Farallon	FMW-141-120320	52.5	-17.35	< 1.0	< 1.0	68	< 1.0	190	0.4
			2/10/2021	Farallon	FMW-141-021021	52.5	-17.35	< 1.0	< 1.0	120	< 1.0	180	0.7
MTCA Cleanu	p Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

### Table D-3 **Groundwater Analytical Results for CVOCs** Deep Outwash Aquifer Groundwater **Performance Monitoring Program** Seattle, Washington Farallon PN: 397-061

						<b>C 1</b>			Analytical R	esults (microgra	ms per liter) <sup>3</sup>		
Sample Location	Screened Interval (feet bgs) <sup>1</sup>	Screened Interval (feet msl) <sup>2</sup>	Sample Date	Sampled By	Sample Identification	Sample Depth (feet bgs) <sup>1</sup>	Sample Elevation (feet NAVD88) <sup>2</sup>	РСЕ	ТСЕ	cDCE	tDCE	Vinyl Chloride	cDCE/Vinyl Chloride Ratio
					Block 79	Property (con	tinued)						
			12/21/2012	SES			-41.80 <sup>4</sup>	1.3 i	440	5,500	4.1	150	36.7
			12/19/2013	SES			-41.80 <sup>4</sup>	< 1	13	140	< 1	0.41	341
			6/25/2015	SES			-41.80 <sup>4</sup>	< 1	19	670	< 1	17	39
			10/27/2015	SES			-41.80 <sup>4</sup>	< 1	4.5	670	1.2	17	39
			2/3/2016	SES			-41.80 <sup>4</sup>	< 1	1.1	1,500	2.2	13	115
			3/22/2017	PES			-41.80 <sup>4</sup>	< 0.199	27.1	7,280	25.4	63.5	115
			6/16/2017	PES			-41.80 <sup>4</sup>	0.522	148	4,750	28.2	53.3	89
			4/11/2018	PES			-41.80 <sup>4</sup>	191	1,100	3,720	21.3	34.9	107
			1/30/2019	PES			-41.80 <sup>4</sup>	< 0.995	2.81	6,330	22.8	34.8	182
MW-113	70.0 to 80.0	-36.80 to -46.80	2/7/2019	PES			-41.80 <sup>4</sup>	< 0.199	1.77	6,990	25.7	46.0	152
			11/11/2019	Farallon	MW-113-111119	75.0	-41.80	< 50	< 50	8,200	< 50	950	8.6
			1/14/2020	Farallon	MW113-011420	75.0	-41.80	< 50	< 50	8,000	< 50	1,400	5.7
			2/18/2020	Farallon	MW-113-021820	75.0	-41.80	< 50	< 50	9,600	< 50	1,800	5.3
			3/24/2020	Farallon	MW113-032420	75.0	-41.80	< 20	< 20	4,100	< 20	200	20.5
			4/27/2020	Farallon	MW-113-042720	75.0	-41.80	< 20	< 20	3,500	< 20	94	37.2
			5/19/2020	Farallon	MW-113-051920	75.0	-41.80	< 20	< 20	3,700	< 20	110	33.6
			7/28/2020	Farallon	MW-113-072820	75.0	-41.80	170	1,300	2,300	10	82	28.0
			9/17/2020	Farallon	MW-113-091720	70.0	-36.80	390	1,500	1,900	< 10	45	42.2
			12/3/2020	Farallon	MW-113-120320	75.0	-41.80	480	800	540	< 4.0	6.4	84.4
			2/10/2021	Farallon	MW-113-021021	75.0	-41.80	2.7	8.4	26	< 0.20	< 0.20	
MTCA Cleanuj	p Levels for Ground	water <sup>6</sup>						5	5	<b>16</b> <sup>7</sup>	<b>160</b> <sup>7</sup>	0.2	

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

<sup>1</sup>In feet below ground surface.

<sup>2</sup>In feet North American Vertical Datum of 1988.

<sup>3</sup>Analyzed by U.S. Environmental Protection Agency Method 8260.

<sup>4</sup>Actual sample depth unknown; assumed mid-point of screened interval.

<sup>5</sup>Split sample collected by Farallon and PES and analyzed at different laboratories.

<sup>6</sup>Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater,

Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised 2013, unless otherwise noted.

<sup>7</sup>MTCA Cleanup Levels and Risk Calculations, Standard Method B Values for Groundwater, updated May 2019, https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC

- denotes information is unknown.

<sup>8</sup>Duplicate sample results.

bgs = below ground surface NS = not surveyed cDCE = cis-1,2-dichloroethene PCE = tetrachloroethene PES = PES Environmental, Inc. CVOC = chlorinated volatile organic compounds SES = SoundEarth Strategies, Inc. E = result exceeded calibration range of instrument and is an estimate TCE = trichloroethene Farallon = Farallon Consulting, L.L.C. tDCE = trans-1,2-dichloroethene i = result may be due to carryover from previous sample injection at lab J = result is an estimate

NA = not available

Rows highlighted in green indicate samples were collected during dewatering at Block 43 (11/2013 - 12/2014), Block 37 [pit] and Block 38 West (10/2019 - present), or the interim action at Block 37 (4/2017 - 12/2017)

### APPENDIX E CONSTRUCTION DISCHARGE COMPLIANCE MONITORING

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

### Table E-1

### Construction Stormwater General Permit Performance and Compliance Monitoring Data

Construction Dewatering Treatment System for North and West Dewatering Wells

Block 38 West Site

Seattle, Washington

Farallon PN: 397-019

																					An	alytical	Results (n	icrograms p	er liter)																		٦
																																						T		$\top$	T T		
			hloroethylene oroethylene	chloroethane	Dichloroethene	1,2 Dichloroethene	Chloride	hloroethylene	proethylene	chloroethane	Dichloroethene	1,2 Dichloroethene Chloride	hloroethylene	oroethylene	chloroethane		1,2 Dichloroethene Chloride		hloroethylene	oroethylene	chloroethane ? Dichloroethene	1,2 Dichloroethene	Chloride	hloroethylene	chloroethane	Dichloroethene	1,2 Dichloroethene	Chloride	hloroethylene	oroethylene	chloroethane	Dichloroethene	Chloride	hloroethylene oroethylene	chloroethane	Dichloroethene	1,2 Dichloroethene Chloride	hloroethylene	proethylene	chloroethane	Dichloroethene	1,2 Dichloroethene Chloride	
			trac	ĕ	5-1,2	us-,	ž	trac	ichic	ĕ	7,2	-sul o lv	trac	ichic	ă S				trac	E E	2-Dic	,-su	ž	trac	ă	1,2	us-,	ž	trac	ich c	ă	s-1,2	1 2 2	trac	ă	-1,2	-su o Iv	trac	ichle	ă	-1,2	-su o lv	
FA ID	Sample D	ate Report Date	<u> </u>	7	Ğ	tra	5	Р Н	μ	7	ő	5 5	Ρ́	L F	÷ .	5	5 5		<u>°</u>	È	÷ ÷	ţ	5	_ <mark>₽</mark> ₽	Treatment	<u><u></u></u>	<u> </u>	5	μÊ	F	÷	t, Ci	5	Ê F	÷	ö	š ž	Ρ	L F	151	<u></u>	<u> </u>	_
				Ind	luant		- F			Post Str	d an		-		Post Lead G	0.44		- T			ost Lag GAC #1			water		ad GAC	<u> </u>	ies		D	ost Lag	CAC #2			Post GAC	4 (Mid CA	<b>C</b> )	-		Effluent (pre	CR tank		_
	A	AO Indicator Leve	1 2.0 2.0	2.0	5.0	N/A	2.0	2.0	2.0	2.0		N/A 2.0	2.0	2.0	2.0 5		VA 2.0	0 2	2.0 2		2.0 5.0	N/A	2.0	2.0 2.	0 2.0		-	2.0	2.0			5.0 N/A	2.0	2.0 2.0	2.0	5.0	N/A 2.0	2.0		2.0	5.0	N/A 2.0	)
2001474	1/29/202		< 1.00 < 0.5 < 1.00 < 0.5			< 1.00 < 1.00		< 1.00		- <		< 1.00 < 0.2 < 1.00 < 0.2		-	-	-			-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 < 0.20 < 1.00 < 0.20		< 0.500			< 1.00 < 0.20	
2002009		2/12/2020				< 1.00		< 1.00				< 1.00 < 0.2		-	-	-			-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50			< 1.00 < 0.20		<pre>0 &lt; 0.500 0 &lt; 0.500</pre>		< 1.00	< 1.00 < 0.20 < 1.00 < 0.20	
2002282 2002397								< 1.00				< 1.00 0.885	•	-	-	-		_	-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 < 0.20 < 1.00 < 0.20			1.00		1.00 0.20	200
2002397 2003004			< 1.00 < 0.5 < 1.00 < 0.5			< 1.00 <1.00		< 1.00 < 1.00		< 1.00		< 1.00 0.877 < 1.00 0.346		-	-	-			-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50		< 1.00	< 1.00 < 0.20	0 1.00	< 0.500	1.00	1.00		200
2003127 2003257						< 1.00		< 1.00		< 1.00			•	-	-	-		_	-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50		< 1.00	< 1.00 < 0.20		< 0.500		< 1.00		200
2003257				00 < 1.00 00 < 1.00	45.1	< 1.00		< 1.00 < 1.00		< 1.00 <		< 1.00 0.911 < 1.00 0.941	<u> </u>	-	-	-			-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50		< 1.00 1.29	< 1.00 < 0.20 < 1.00 <b>0.45</b>		<pre>&lt; 0.500</pre> <pre></pre>	-		< 1.00 < 0.20 < 1.00 < 0.20	
2003444				00 < 1.00		< 1.00		< 1.00		1.00	_	< 1.00 0.841	•	-	-	-		_	-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50			< 1.00 0.26	_	< 0.500	0 < 1.00	< 1.00	< 1.00 < 0.20	:00
2004067 2004134			< 1.00 < 0.5	00 < 1.00 00 < 1.00		< 1.00		< 1.00 < 1.00		< 1.00	18.0	< 1.00 2.54 < 1.00 < 0.200	-	-	-	-			-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50		1.02 3.27	< 1.00 < 0.20	0 < 1.00 0 < 1.00		0 < 1.00	< 1.00	< 1.00 < 0.20	200
2004213 2004359						< 1.00		< 1.00			1.81 <		) -	-	-	-		_	-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50			< 1.00 0.77	< 1.00			1.00	< 1.00 0.56	
2004359			< 1.00 < 0.5			< 1.00 < 1.00	14.3 15.9	< 1.00		< 1.00		< 1.00 0.668	_	-	-	-		-	-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50		< 1.00 < 1.00	< 1.00 0.224 < 1.00 0.580		<pre>0 &lt; 0.500 0 &lt; 0.500</pre>		< 1.00	< 1.00 < 0.20	
2005087						< 1.00		< 1.00		< 1.00		< 1.00 <b>1.11</b>	· ·	-	-	-			-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50		1.07	< 1.00 0.55		< 0.500		1.00	< 1.00 < 0.20	200
2005198						< 1.00 < 1.00		< 1.00		< 1.00		< 1.00 0.985 < 1.00 3.96	- ·	-	-	-		-	-	-		-	-			-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50			<1.00 0.578 <1.00 1.20		<pre>&lt; 0.500</pre> <pre></pre> <pre< td=""><td></td><td></td><td>&lt; 1.00 &lt; 0.20</td><td>.00 52</td></pre<>			< 1.00 < 0.20	.00 52
2006013	6/1/2020	0 6/3/2020	< 1.00 < 0.5	1.00		< 1.00	11.3	< 1.00	< 0.500	< 1.00	-	< 1.00 < 0.200	- (	-	-	-			-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50			< 1.00 < 0.20		< 0.500		< 1.00	< 1.00 < 0.20	200
2006118						< 1.00 < 1.00		< 1.00		< 1.00		< 1.00 < 0.200 < 1.00 < 0.200	) -	-	-	-		_	-	-	· ·	-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 < 0.20		<pre>&gt; &lt; 0.500 &gt; &lt; 0.500</pre>	1.00		< 1.00 < 0.20	<u>.00</u> 200
2006343	6/22/202	6/24/2020	< 1.00 < 0.5	00 < 1.00	172	< 1.00	21.7	< 1.00	< 0.500	< 1.00	76.8 <	< 1.00 < 0.200	-	-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50	0 < 1.00	18.7	< 1.00 2.86	< 1.00	< 0.500	0 < 1.00	5.58	< 1.00 <b>1.83</b>	33
2006466	01201202					< 1.00		< 1.00 < 1.00		< 1.00		< 1.00 2.64		-	-	-	· ·	_	-	-	· ·	-	-	-	-	-	-	-	-	-	-	· ·	-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 1.37 < 1.00 1.67					< 1.00 0.23 < 1.00 < 0.20	
2007179	7/13/202	20 7/15/2020	< 1.00 < 0.5	00 < 1.00	134	< 1.00	13.8	< 1.00	< 0.500	< 1.00	88.1 <	< 1.00 2.58		-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50	0 < 1.00	7.11	< 1.00 < 0.20	0 < 1.00	< 0.500	0 < 1.00	< 1.00	< 1.00 < 0.20	200
2007271 2007372				1.00	136 125	< 1.00 < 1.00		< 1.00		< 1.00		< 1.00 2.05 < 1.00 < 0.200	-	-	-	-			-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50		< 1.00	<1.00 <b>0.82</b>					< 1.00 <b>0.64</b>	
2008076	8/6/2020	0 8/7/2020	< 1.00 0.51	6 < 1.00	136	< 1.00	11.7	< 1.00	< 0.500	< 1.00	67.6	< 1.00 <b>1.76</b>		-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50	0 < 1.00	< 1.00	< 1.00 1.15	< 1.00	< 0.500	0 < 1.00	1.72	< 1.00 < 0.20	200
2008126			1.00			< 1.00 < 1.00		< 1.00		< 1.00		< 1.00 <b>1.71</b> < 1.00 < 0.200		-	-	-	<u> </u>	_	-	-	· ·	-	-			-	-	-	· ·	-	-	· ·	-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 < 0.20					< 1.00 0.53 < 1.00 < 0.20	
2008312	8/24/202		< 1.00 0.73	6 < 1.00	163	< 1.00	15.3	< 1.00	< 0.500	< 1.00	85.5 <	< 1.00 < 0.200	) -	-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50	0 < 1.00	< 1.00	< 1.00 < 0.20					< 1.00 < 0.20	
2008421 2009109				5 < 1.00 < 1.00		< 1.00		< 1.00		< 1.00		< 1.00 4.38 < 1.00 2.32		-	-	-	· ·	_	-	-	· ·	-	-	-	-	-	-	-	•	-	-	· ·	-	< 1.00 < 0.50		< 1.00	< 1.00 < 0.20		<pre>&lt; 0.500</pre> <pre></pre>		< 1.00		.00
2009195	9/14/202	9/16/2020	< 1.00 <b>1.3</b>	< 1.00	226	< 1.00	20.7	< 1.00	0.537	< 1.00	121 <	< 1.00 < 0.200	) -	-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50	0 < 1.00	< 1.00	< 1.00 < 0.20	0 < 1.00	< 0.500	0 < 1.00	< 1.00	< 1.00 < 0.20	200
2009310 2009513	01211202			<pre>&lt; 1.00</pre> <pre></pre>		< 1.00		< 1.00		< 1.00		< 1.00 2.41 < 1.00 2.57	· ·	-	-	-			-	-		-	-		-	-	-	-	-	-	-	· ·	-	< 1.00 < 0.50 < 1.00 < 0.50		< 1.00	< 1.00 0.760 < 1.00 < 0.20		<pre>&lt; 0.500</pre> <pre></pre>		< 1.00	< 1.00 < 0.20	200
2010042	10/5/202		< 1.00 2.27	< 1.00	340	< 1.00	24.3	< 1.00	0.737	< 1.00	159 <	< 1.00 3.74		-	-	-			-	-		-	-	-	-	-	-	-		-	-		-	< 1.00 < 0.50	0 < 1.00	< 1.00	< 1.00 <b>1.64</b>	< 1.00	< 0.500	0 < 1.00	1.00	< 1.00 0.442	42
2010165				s < 1.00 s < 1.00		< 1.00		< 1.00		< 1.00	80.1 ·	<1.00 1.72 <1.00 1.83		-	-	-		_	-	-	· ·	-	· ·	-	-	-	-	-	-	-	-	· ·	-	< 1.00 < 0.50 < 1.00 < 0.50			< 1.00 < 0.20	0 < 1.00	< 0.500			< 1.00 < 0.20	200
2010416	10/26/202		< 1.00 <b>1.18</b>	s < 1.00	139	< 1.00	9.71	< 1.00	0.794	< 1.00	136	< 1.00 <b>5.61</b>		-	-	-			-	-		-	-		-	-	-	-	-	-	-		-	< 1.00 < 0.50		< 1.00 1.64	< 1.00 < 0.20	< 1.00		0 < 1.00	1.24	< 1.00 2.02	2
2010530				<b>9</b> < 1.00		< 1.00		< 1.00		< 1.00	52.9	<1.00 0.607 <1.00 1.30	-	-	-	-			-	-		-	-	-	-	-	-	-	-	-	-		-	< 1.00 < 0.50 < 1.00 < 0.50		<b>1.70</b>	< 1.00 0.930 < 1.00 < 0.20	< 1.00	<pre>&lt; 0.500</pre> <pre></pre>	3 < 1.00	< 1.00	< 1.00 < 0.20	.00
2011161	11/9/202	20 11/11/2020	< 1.00 <b>1.6</b>	<b>i</b> < 1.00	177	< 1.00	8.83	< 1.00	< 0.500	< 1.00		< 1.00 0.308		-	-	-			-	-		-	-	-	-	-		-	· ·	-	-		-	< 1.00 < 0.50		1.00	< 1.00 < 0.20	0 < 1.00			< 1.00		200
2011297				<pre>&lt; 1.00 </pre> <pre></pre> <pre><td></td><td>&lt; 1.00 &lt;1.00</td><td></td><td>&lt; 1.00 &lt; 1.00</td><td></td><td>&lt; 1.00</td><td>97.7</td><td>&lt; 1.00 1.91 &lt; 1.00 0.700</td><td></td><td>&lt; 0.500</td><td>&lt; 1.00 &lt; 7</td><td></td><td>1.00 &lt; 0.1 1.00 &lt; 0.1</td><td></td><td>1.00 &lt; 0 1.00 &lt; 0</td><td></td><td></td><td>&lt; 1.00</td><td></td><td></td><td>500 &lt; 1.00 500 &lt; 1.00</td><td>_</td><td></td><td>&lt; 0.200</td><td></td><td>&lt; 0.500 &lt;</td><td></td><td>&lt; 1.00 &lt; 1.0 &lt; 1.00 &lt; 1.0</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>_</td></pre>		< 1.00 <1.00		< 1.00 < 1.00		< 1.00	97.7	< 1.00 1.91 < 1.00 0.700		< 0.500	< 1.00 < 7		1.00 < 0.1 1.00 < 0.1		1.00 < 0 1.00 < 0			< 1.00			500 < 1.00 500 < 1.00	_		< 0.200		< 0.500 <		< 1.00 < 1.0 < 1.00 < 1.0			-	-		-	-				_
2011546				<1.00		<1.00		< 1.00		< 1.00		< 1.00 <b>0.700</b>			< 1.00 <		1.00 < 0.2			0.500	< 1.00 < 1.00	< 1.00	0.200		500 < 1.00			< 0.200	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0			-	-		-	-			<u> </u>	
2012098	12/7/202			<1.00 <1.00		<1.00 <1.00		< 1.00		< 1.00		<1.00 <b>1.28</b> <1.00 <b>1.34</b>			< 1.00 < 7		1.00 < 0.2 1.00 <b>0.6</b>		1.00 < 0 1.00 < 0	0.500 <	< 1.00 < 1.00 < 1.00 < 1.00	< 1.00			500 < 1.00 500 < 1.00			< 0.200		< 0.500 <		< 1.00 < 1.0 < 1.00 < 1.0			-	-		-	-				
2012211				<1.00			-	< 1.00													< 1.00 < 1.00			< 1.00 < 0.								< 1.00 < 1.0			-	-		-	-	-	-		-
			<1.00 <0.50					-	-	-	-										< 1.00 < 1.00 < 1.00 < 1.00														-	-		-	-		<u> </u>	<u> </u>	_
2101137	1/11/202	1/13/2021	<1.00 <b>0.51</b> <1.00 <b>0.52</b>	8 <1.00	164	<1.00	44.5	-	-	-	-		< 1.00	< 0.500	< 1.00 1	46 < 1	1.00 1.7	<b>'5 &lt;</b> 1	1.00 < 0	0.500 <	< 1.00 < 1.00	< 1.00	0.355	< 1.00 < 0.	500 < 1.00	) < 1.00	) < 1.00	< 0.200	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 < 0.200		-	-			-		<u>-</u> +	<u> </u>	
			<1.00 <b>0.59</b> <1.00 <b>0.68</b>					-	-	-	-		< 1.00	< 0.500	< 1.00 < 1	.00 < 1	1.00 <b>0.6</b>	09 < 1	1.00 < 0	0.500 <	<pre>&lt; 1.00 &lt; 1.00 &lt; 1.00 &lt; 1.00</pre>	< 1.00	< 0.200	< 1.00 < 0.	500 < 1.00	) < 1.00	) < 1.00	0.500	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 < 0.200		-	-		•	-	+		<u> </u>	$\neg$
2102012	2/1/202	1 2/3/2021	<1.00 0.61	3 <1.00	175	<1.00	37.5	-	-	-	-		< 1.00	< 0.500	< 1.00 <	.00 < 1	1.00 0.8	62 < 1	1.00 < 0	0.500 <	< 1.00 < 1.00	< 1.00	< 0.200	< 1.00 < 0.	500 < 1.00	) < 1.00	) < 1.00	0.568	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 < 0.200		-	-			-		<u>-</u> +	<u> </u>	
			<1.00 <0.50					-	-	-	-		< 1.00	< 0.500	< 1.00 <	.00 < 1	1.00 1.1	9 <1	1.00 < 0	).500 <	1.00 < 1.00	< 1.00	< 0.200	< 1.00 < 0.	500 < 1.00	1.80	< 1.00	0.605	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 0.671		-	-		· ·	-				L
2102323	2/22/202	2/24/2021	<1.00 <0.50 <1.00 <b>0.90</b>	2 <1.00	231	<1.00	45.9	-	-	-	-		< 1.00	< 0.500	< 1.00 <	00 < 1	100 14	L6 < 1	1 00 < 0	500 <	<pre>&lt; 1.00 &lt; 1.00</pre> <pre>&lt; 1.00 &lt; 1.00</pre>	< 1.00	< 0.200	< 1.00 < 0	500 < 1.00	( < 1.00	( < 1.00 )	1 4 3	< 1.00	< 0.500	1 00	< 1 00 < 1 0	0 0 774		-	-		1	-	+ - +	<u> </u>		-
2103016	3/1/202	1 3/3/2021	<1.00 <0.50	00 <1.00	206	<1.00	36.3	-	-	-	-		< 1.00	< 0.500	< 1.00 < 1	.00 < 1	1.00 0.9	89 < 1	1.00 < 0	0.500 <	< 1.00 < 1.00	< 1.00	< 0.200	< 1.00 < 0.	500 < 1.00	) < 1.00	) < 1.00	1.00	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 0.576		-	-		-	-	<u> </u>			コ
			<1.00 <0.50 <1.00 <b>0.69</b>					-	-	-	-		< 1.00	< 0.500 < 0.500	< 1.00 < 7	.00 <1	1.00 <b>1.0</b> 1.00 <b>1.1</b>	12 < 1 15 < 1	1.00 < 0 1.00 < 0	0.500 <	<pre>&lt; 1.00 &lt; 1.00 &lt; 1.00 &lt; 1.00</pre>	< 1.00 < 1.00	0.423	< 1.00 < 0.	500 < 1.00 500 < 1.00	) < 1.00 ) < 1.00	) < 1.00 ) < 1.00	1.17	< 1.00 <	< 0.500 <	< 1.00	< 1.00 < 1.0 < 1.00 < 1.0	0 0.553 0 0.558		-	-			-	+ - +	<u> </u>		-
2103338	3/22/202	3/24/2021	<1.00 <b>0.62</b>	7 <1.00	221	<1.00	41.1	-	-	-	-		< 1.00	< 0.500	< 1.00 < 1	.00 < 1	1.00 1.5	<b>i3</b> < 1	1.00 < 0	0.500 <	< 1.00 < 1.00	< 1.00	0.562	< 1.00 < 0.	500 < 1.00	) < 1.00	) < 1.00	0.823	< 1.00	< 0.500 <	< 1.00	< 1.00 < 1.0	0 0.604			-		•	-	<u> </u>			二
2103486	3/29/202	3/31/2021		-		-	-	-	-	-	-	-   -	< 0.400	< 0.500	< 0.400 < 0	.500 < 0	.500 0.8	<b>5</b> 2 < 0	1.400 < 0	J.500 <	0.400 < 0.500	< 0.500	< 0.350	< 0.400 < 0.	500 < 0.40	u < 0.500	u < 0.500	0.496	< 0.400	< 0.500 <	0.400	<b>U.554</b> < 0.50	JU < 0.350		-	-		-	-	-	-		

NOTES:

NOTES: Bold = parameter detected, but below indicator level Bold (red) = parameter detected at/above indicator level < denotes analyte not detected at or exceeding the laboratory reporting limit listed. - denotes sample not analyzed 'Indicates field measurement with Oakton pH meter and/or HACH 2100Q Turbidimeter. Week of 12/21/20: spare swapped for "Lead GAC 2"; Current "Lead GAC 2" drained and changed out on 12/24 is now the spare.

### Table E-2 Construction Stormwater General Permit Performance and Compliance Monitoring Data Construction Dewatering Treatment System for South and East Dewatering Wells Block 38 West Site Seattle, Washington Farallon PN: 397-019

	1		1																		A	nalytica	al Result	s (mic	rograms	per lite	er)																		
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			ene	ø	Pe	ethe	roet		ene	e	e	athe	loe		ene	e	e e	ste	loet		ene		E E		st	e l		ene	e	e e	athe	loe		lene	e	e	athe	Joe		ene	e	P	ethe	roet	, I
			ţł	/len	etha	50 C	입	0	Ę	/len	tha	20 N	뤝	9	Ę	/len	tha	l š	Ē		Ę	len	tha		š	뤝	Ð	thy	/eu	tha	20	뤝		thyl	/len	etha	Š	뤝	Ð	ţ	/len	tha	Š	Ploi	•
			roe	ethy	2 2	chic	Бi	orid	e l	ethy	l s	CP CP	ä	orid	-oe	ethy	2 ž	- F	ä	Prid	0	l fi	Į ž		ř.	ä	orid	roe	ethy	2 ž	CP CP	ä	orid	roe	ethy	ž.	che	ä	orid	loe	ethy	ž	chic	Dic	orid
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FA ID	Sample Da	te Report Date	Tet	i- H	1,2	cis	tra	< <u> </u>	Tei	Ξ	1,2	cis	tra	-	Tei	Ξ	1,2	cis	tra	- ź	Tei	Ē	1,2		cis	tra	ž	Tet	Ē	7,	cis	tra	< <u> </u>	Tei	Ē	1,2	cis	tra	Ξ.	Tet	ц Ц	1,2	cis	tra	_ <u> </u>
																											ment Pe	rformand																	
						luent					Lead GAC	<u> </u>	<u> </u>				Lag GAC	<u>``</u>	<u>,                                    </u>				st Lead G		<u>`</u>	<u> </u>				Lag GAC	· · ·				Po		(Mid GA	,				fluent (pr		· ·	
2002011	2/3/2020	O Indicator Leve 2/5/2020		2.0 < 0.500	2.0	<u>5.0</u> < 1.00	N/A < 1.00	2.0 < 0.200	2.0	2.0	2.0	5.0	N/A	2.0	2.0	2.0	2.0	5.0	N/A	2.0	2.0	2.0	2.0	, .	5.0	N/A	2.0	2.0	2.0	2.0	5.0	N/A	2.0	2.0	< 0.500	2.0	5.0	<u>N/A</u> < 1.00 <	2.0	2.0 < 1.00	2.0 < 0.500	2.0	5.0	N/A < 1.00	2.0
2002011	2/3/2020			< 0.500		< 1.00		< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	-	< 1.00	- 1.00		< 1.00	< 0.500	-		< 1.00	
2002284	2/17/2020		-	< 0.500		< 1.00	< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-		< 1.00		< 1.00			
2002398	2/24/2020	2/26/2020	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	< 0.200
2003024	3/3/2020		_	< 0.500		< 1.00	< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-	< 1.00		< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2003128 2003256	3/9/2020 3/16/2020			< 0.500		-	< 1.00	< 0.200	-	-	-	-	-	-	<u> </u>	-	-	-	-	-	<u> </u>		<u> </u>	_	-	-	-	-	-	-	-	-	-	< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 < 1.00			< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 < 1.00	< 1.00 < 1.00	
2003250	3/23/2020		_	< 0.500			< 1.00			-	1 -	1 -	-	-	<u> </u>	- 1	- 1	-	1 -	1 -	1 .		+ -		-	-	-	-	- 1	- 1	- 1	1.	-		< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2003445	3/30/2020	0 4/1/2020		< 0.500		< 1.00	< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2004066	4/6/2020			< 0.500			< 1.00		-	-	-	-	-	-	· ·	-	-	-	-	-	· ·	-			-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2004135 2004214	4/13/2020 4/20/2020		-	< 0.500		< 1.00	< 1.00		-	-	-	-	-	-	· ·	-	-	-	-	-	1 ·				-	-	-	-	-	-	-		-	< 1.00 < 1.00	< 0.500	< 1.00				< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2004214 2004360	4/20/2020		-	< 0.500			< 1.00		-	-	-	-	-	-	- -	-	-	-	-	-		-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00				< 1.00	< 0.500	< 1.00 < 1.00	< 1.00	< 1.00	<0.200 <0.200
2005016	5/4/2020		-	< 0.500		-	< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2005088	5/11/2020			< 0.500				< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00		< 1.00		< 1.00 <		< 1.00	< 0.500	< 1.00		< 1.00	<0.200
2005199	5/18/2020			< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-		< 0.500	< 1.00				< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2005316 2006012	5/26/2020 6/1/2020			< 0.500			< 1.00		-	-	-	-	-	-	<u> </u>	-	-	-	-	-	<u> </u>	<u> </u>	<u> </u>		-	-	-	-	-	-	-	-	-	< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	<b>1.50</b>			< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 < 1.00	< 1.00 < 1.00	
2006117	6/8/2020			< 0.500			< 1.00			-	-	-	-	-		-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-		< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2006248	6/15/2020		-	< 0.500		-	< 1.00	< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00 <	0.200	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2006344	6/22/2020			< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		< 0.500	< 1.00				< 1.00			< 1.00		<0.200
2006465 2007056	6/29/2020 7/6/2020		_	< 0.500		3.14 2.9	< 1.00 < 1.00	< 0.200	-	-	-	-	-	-	· ·	-	-	-	-	-	-	-	· ·			-	-	-	-	-	-	-	-	< 1.00 < 1.00	< 0.500	< 1.00		< 1.00 < < 1.00 <		< 1.00		< 1.00 < 1.00		< 1.00	
2007056	7/13/2020			< 0.500				< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-		< 0.500			< 1.00 <		< 1.00		< 1.00			
2007277	7/20/2020		_	< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-		< 0.500	< 1.00				< 1.00		< 1.00	< 1.00		<0.200
2007366	7/27/2020		_	< 0.500				< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00		< 1.00		< 1.00 <		< 1.00		< 1.00			<0.200
2008083	8/6/2020		-	< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>		-	·	-	-	-	-	-	-	-	< 1.00		< 1.00		< 1.00 <		< 1.00	< 0.500	< 1.00			
2008127 2008213	8/10/2020 8/17/2020		_	< 0.500			< 1.00	< 0.200	-	-	-	-	-	-	· ·	-	-	-	-	-	<u> </u>		<u> </u>		-	-		-	-	-	-	<u> </u>	-	< 1.00 < 1.00	< 0.500	< 1.00	1.04	< 1.00 < < 1.00 <		< 1.00		< 1.00 < 1.00	< 1.00		
2008313	8/24/2020			< 0.500		-	< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	< 1.00		< 1.00				< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2008420	8/31/2020		< 1.00	< 0.500	< 1.00	2.88	< 1.00	< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00 <	:0.200	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2009108	9/8/2020		_	< 0.500			< 1.00		-	-	-	-	-	-	· ·	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2009194 2009308	9/14/2020 9/21/2020			< 0.500			< 1.00 < 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-	< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 1.16			< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 < 1.00	< 1.00	<0.200 <0.200
2009508	9/28/2020		-	< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	< 1.00			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2010044	10/5/2020			< 0.500		-	< 1.00	< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	1.05	< 1.00 <	0.200	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2010164	10/12/2020		-	< 0.500			< 1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	< 1.00	< 0.500	< 1.00	-			< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	
2010297 2010415	10/19/2020		-	< 0.500		-		< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-		_	-	-	-	-	-	-	-	-	-	< 1.00 < 1.00	< 0.500	< 1.00 < 1.00				< 1.00 < 1.00	< 0.500 < 0.500	< 1.00 < 1.00	< 1.00 < 1.00		
2010415	10/26/2020 11/3/2020			< 0.500			< 1.00	< 0.200	- < 1.00	- < 0.500	< 1.00	< 1.00	- < 1.00	- <0.200	- < 1.00	< 0.500	< 1.00	< 1.00	< 1.00	- <0.200	-	< 0.50	00 < 1.0	00 <	- 1 00 <	-	-	- < 1.00	< 0.500	-	< 1.00	< 1.00	- <0 200	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00 <	-	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	<0.200
2011162	11/9/2020		-	< 0.500			< 1.00			< 0.500			< 1.00	<0.200	< 1.00		< 1.00		< 1.00			_	00 < 1.0	_			<0.200					< 1.00		-	-	-	-	-	-	-	-	-	-	-	-
2011296	11/16/2020			< 0.500				< 0.200		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-					< 1.00 <							
		0 11/25/2020								-	-	-	-	-	· ·	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-					< 1.00 <							
2011545 2012097	11/30/2020					< 1.00				-	-	-	-	-	-	-	-	-	-	-	· ·	-	-	_	-	-	-	-	-	-	-	-	-					< 1.00 < < 1.00 <							
2012097	12/14/2020									-		-		-					-	-	-	_	_	_		-	-	-	-	-	-							< 1.00 <							
2012388	12/21/2020		< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	< 0.200	-	-		-		-	-	-			-	-	-	_		_		-	-	-	-	-	_					< 1.00	< 1.00	< 1.00 <							
2101020	1/4/2021					< 1.00				-	_	-	-	-	-	-	-	_	-	-	-	_	_	_		-	-	-	-	-	-	_		-	-	-		-		-		-	-		
2101135 2101284	1/11/2021 1/18/2021					< 1.00				-		-	-	-	-	-	-		-	-	•	_		_		-	-	-	-	· ·	-	-		-	-	-	-		-	-	-		-		-
2101284 2101379	1/18/2021					< 1.00				-	_	-	-	-	-	-	-	-	-	-	-	-	_	_		-	-	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-
2101373						< 1.00				-	_	-	-	-	•	- 1	-	-	-	-	1 -	-	-	_		-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	
2102227	2/15/2021	1 2/17/2021	< 1.00	< 0.500	< 1.00	< 1.00	< 1.00	< 0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	_		_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2102322										-		-	-		-	-			-	-	-	_	-	_		-	-	-	-	-			-	-	-	-	-		-	-	-	-	-		
2103015 2103126						< 1.00				-		-	-	-	•	-	-		-	-	<u>+ :</u>	_		_		-	-	•	-	-	-			-	-	-	-		· ·	-	-	-	-	-	-
2103120	3/8/2021 3/15/2021									-		-	-	-	-	-	-	-	-	-	-	_		_		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
2103337		1 3/24/2021								-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOTES:																																													
		but below indicate																																											

Bold = parameter detected, but below indicator level Bold (red) = parameter detected at/above indicator level < denotes analyte not detected at or exceeding the laboratory reporting limit listed. - denotes sample not analyzed

\*Indicates field measurement with Oakton pH meter and/or HACH 2100Q Turbidimeter. Week of 2/10/20: GAC reconfigured from series to parallel due to higher flow rates. No Mid GAC sample collected this week.

### Table E-3 Construction Stormwater General Permit Performance and Compliance Monitoring Data Stormwater Treatment System Block 38 West Site Seattle, Washington Farallon PN: 397-019

																	A	analytical R	esults (microg	grams per lite	er)														· · · · · · · · · · · · · · · · · · ·
				Petroleun	n Hydroca	arbons					Polycyclic	Aromatic Hy	drocarbons								-	yclic Arom	natic Hydrocarbons			Chier	rinated Vala	tilo Oraco	nic Comro	unde		Metals		Chloroform	Field Data
				_ 1								,									*		-			Chior	rinated Vola	uie Orgar	nic Compo	unas		wetals		Chiorotorm	Field Data
FA ID	Sample Name	Sample Date	Report Date	IIO & leseld :xC-HdTWN	902 Sasoline Gx: Gasoline	81EX	Acenaphthene	9.0 Acenaphthylene	9.0 Anthracene	0. Benzo(g,h,i)perylene	9.0	6.000	0. Napthalene	0 1-Methylnaphthalene	0 2-Methylnaphthalene	bhenanthrene 9.0	D.6	Benzo(a)pyrene	90 Benzo(a)anthracene	9.1 10020(b)fluoranthene	9. Benzo(j,k)fluoranthene*	0.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9. Benzo(k)/fluoranthene** 9. Diberzo(a,h)anthracene	0 Indeno(1,2,3-cd)pyrene	6.0	7. Tetrachloroethylene	7 Trichloroethylene 0.2	G cis-1,2 Dichloroethene	1,2-Dichloroethane	Vinyl Chloride	Chromium, Total	Lead, Total	Mercury, Total	Chloroform	9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1910017	Discharge	10/1/2019	10/3/2019	< 148.1		< 1	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	-	-	< 0.0994 < 0.0994	< 0.0994	< 0.0994	< 1	< 0.5	<1	< 1	< 0.2	<1	< 0.5	< 0.1	< 1	8.1 3.45
191033 191033	Discharge 1 Discharge 2	10/2/2019 10/2/2019	10/7/2019 10/7/2019	< 148.4 < 151.4		< 1 < 1	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990		< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 0.0984 < 0.0990		< 0.0984 < 0.0990	-		<pre>&lt; 0.0984 &lt; 0.0984 &lt; 0.0990 &lt; 0.0990</pre>	< 0.0984 < 0.0990	< 0.0984 < 0.0990	< 1	< 0.5	<1 <1	<1 <1	< 0.2	<1 <1	<b>0.677</b> < 0.5	0.00057 < 0.0005	<1 <1	7.9 5.11 7.9 2.68
1910100	Discharge	10/8/2019	10/21/2019	< 148.7	< 50	< 1	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	-		< 0.0993 < 0.0993	< 0.0993	< 0.0993	< 1	< 0.5	< 1	< 1	< 0.2	< 1	< 0.5	< 0.0005	< 1	7.1 2.94
1910229 1910393	Discharge Discharge	10/15/2019 10/22/2019	10/18/2019 10/29/2019	< 147.3 < 149.7		<1 <1	< 0.1 < 0.0312	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1 < 0.498	< 0.1	< 0.1 < 0.498	- < 0.996	-	<pre>&lt; 0.1 &lt; 0.1 &lt; 0.498 &lt; 0.498</pre>	< 0.1 < 0.498	< 0.1 < 0.498	<1 <1	< 0.5	<1 <1	<1 <1	< 0.2	<1 <1	< 0.5 < 0.5	< 0.0005	<1 <1	7.7 4.30 7.6 2.90
1910510	Discharge	10/29/2019	11/4/2019	< 149.4	< 50	< 1	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	-	< 0.0992 < 0.0992	< 0.0992	< 0.0992	< 1	< 0.5	< 1	< 1	0.512	< 1	< 0.5	0.00133	< 1	7.1 3.40
1911041 1911141	Discharge Discharge	11/5/2019 11/12/2019	11/7/2019 11/14/2019	< 150 < 149.3		< 1	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099 < 0.0996	< 0.099	< 0.099 < 0.0996	< 0.099	< 0.099	< 0.099	< 0.099 < 0.0996	< 0.099 < 0.0996		< 0.099	< 0.099		< 0.099 < 0.099 < 0.0996 < 0.0996	< 0.099	< 0.099 < 0.0996	< 1	< 0.5	<1 <1	<1 <1	< 0.2	<1 <1	< 0.5	0.00617 < 0.0005	<1 <1	7.4 2.60 7.3 3.10
1911257	Discharge	11/19/2019	11/22/2019	< 148.5	< 50	< 0.4945	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	-	< 0.0989 < 0.0989	< 0.0989	< 0.0989	< 1	< 0.5	< 1	< 1	0.803	< 4	< 2	0.00118	< 1	7.1 2.10
1911365 1912031	Discharge Discharge	11/25/2019 12/3/2019	12/3/2019 12/5/2019	< 153.1 < 149.1		< 0.4945 0.0947	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976		< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 0.0995 < 0.0976		< 0.0995 < 0.0976	< 0.0995		<pre>&lt; 0.0995 &lt; 0.0995 &lt; 0.0976 &lt; 0.0976</pre>	< 0.0995 < 0.0976	< 0.0995 < 0.0976	< 1	< 0.5	< 1 1.34	<1 <1	1.16	< 1 1.11		0.000522 < 0.0005	<1 <1	7.2 1.70 7.6 1.80
1912142	Discharge	12/10/2019	12/17/2019	< 150	< 50	< 0.4945	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	< 0.0996	-	< 0.0996 < 0.0996	< 0.0996	< 0.0996	< 1	< 0.5	1.46	< 1	1.34	< 1	< 0.5	0.00144	< 1	7.3 3.30
1912284 1912408	Discharge Discharge	12/17/2019 12/23/2019	12/19/2019 12/27/2019	< 149.6 < 149.4		< 0.4945	< 0.0995	< 0.0995 < 0.1	< 0.0995	< 0.0995	< 0.0995 < 0.1	< 0.0995	< 0.0995 < 0.1	< 0.0995 < 0.1	< 0.0995 < 0.1	< 0.0995 < 0.1	< 0.0995 < 0.1	< 0.0995	< 0.0995	< 0.0995 < 0.1	< 0.0995	-	<0.0995 < 0.0995 < 0.1 < 0.1	< 0.0995	< 0.0995 < 0.1	< 1 < 1.00	< 0.5	<b>2.56</b> < 1.00	< 1 < 1.00	2.03 0.691	< 1	< 0.5 < 0.500	< 0.0005 0.000651	< 1	7.4 2.70 7.5 2.10
2001097	Discharge	1/7/2020	1/9/2020	< 149.1	< 50	< 0.4945	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	-	< 0.0992 < 0.0992	< 0.0992	< 0.0992	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	1.15	0.646	< 0.0005	< 1.00	7.7 2.40
2001266 2001339	Discharge Discharge	1/17/2020 1/22/2020	1/21/2020 1/24/2020			< 0.4945 < 0.4945	< 0.12	< 0.12 < 0.0993	< 0.12 < 0.0993	< 0.12 < 0.0993	< 0.12 < 0.0993	< 0.12 < 0.0993	< 0.12	< 0.12	< 0.12 < 0.0993	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.0992	+	<0.12 < 0.12 < 0.0993 < 0.0993	< 0.12 < 0.0993	< 0.12 < 0.0993	< 1.00 < 1.00	< 0.500	< 1.00	< 1.00 < 1.00	< 0.200	< 1.00	< 0.500	< 0.0005 0.000618	< 1.00 < 1.00	7.7 1.60 7.8 2.20
2001339	Discharge	1/29/2020	1/24/2020			< 0.4945	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993	< 0.0993		< 0.0993	< 0.0993		< 0.0993 < 0.0993 < 0.0993	< 0.0993	< 0.0993	< 1.00	< 0.500	< 1.00		< 0.200	< 1.00	< 0.500	< 0.0005	< 1.00	7.7 0.78
2002010 2002152	Discharge	2/3/2020 2/10/2020	2/5/2020 2/18/2020			< 0.4945 < 0.4945	< 0.0989	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 0.0989	< 0.0989	< 0.0989	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 0.0989		< 0.0989 < 0.0999	< 0.0989 < 0.0999		<pre>&lt; 0.0989 &lt; 0.0989 &lt; 0.0999 &lt; 0.0999</pre>	< 0.0989 < 0.0999	< 0.0989 < 0.0999	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200	6.03 < 1.00	< 0.500 < 0.500	0.00199	< 1.00 < 1.00	7.7 2.4 7.6 1.3
2002152	Discharge Discharge	2/17/2020	2/18/2020	< 140.2		< 0.4945	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999		< 0.0999	< 0.0999		< 0.0999 < 0.0999 < 0.0999	< 0.0999	< 0.0999	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	< 1.00	< 0.500	0.0005	< 1.00	7.6 15.4
2002399	Discharge	2/24/2020	3/3/2020			< 0.4945	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988	< 0.0988		< 0.0988	< 0.0988		< 0.0988 < 0.0988	< 0.0988	< 0.0988	< 1.00	< 0.500	< 1.00		< 0.200	< 1.00		< 0.0005	< 1.00	7.6 1.2
2003009 2003130	Discharge Discharge	3/2/2020 3/9/2020	3/5/2020 3/13/2020	-	< 50	< 5 < 0.4945	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 0.0997	< 0.0997 < 0.0993	< 0.0997 < 0.0991		<pre>&lt; 0.0997 &lt; 0.0997 &lt; 0.0993 &lt; 0.0993</pre>	< 0.0997 < 0.0993	< 0.0997 < 0.0993	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200	< 1.00 < 1.00	< 0.500 < 0.500	0.0068	< 1.00 < 1.00	7.7 18.9 7.7 2.6
2003248	Discharge	3/16/2020	3/19/2020	< 147.5	< 50	0.206	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	< 0.0998	-	< 0.0998 < 0.0998	< 0.0998	< 0.0998	< 1.00	< 0.500	< 1.00		< 0.200	< 1.00	< 0.500	< 0.0005	< 1.00	7.6 1.5
2003367 2003446	Discharge Discharge	3/23/2020 3/30/2020	3/25/2020 4/1/2020	-		< 0.4945	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 <0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 0.0998 < 0.0991		< 0.0998 < 0.0991	< 0.0998 < 0.0991		<pre>&lt; 0.0998 &lt; 0.0998 &lt;0.0991 &lt;0.0991</pre>	< 0.0998 < 0.0991	< 0.0998 < 0.0991	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200 < 0.200	< 1.00 < 1.00	< 0.500 < 0.500	0.001	< 1.00 < 1.00	7.7 1.7 7.6 2.1
2004065	Discharge	4/6/2020	4/8/2020	< 149.7	< 50	< 0.4945	<0.0987	<0.0987	<0.0987	0.181	<0.0987	<0.0987	<0.0987	<0.0987	<0.0987	< 0.0987	<0.0987	< 0.0987	<0.0987	<0.0987	<0.0987	-	<0.0987 <0.0987	<0.0987	<0.0987	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	< 1.00	< 0.500	0.0014	< 1.00	7.6 1.3
2004133 2004215	Discharge Discharge	4/13/2020 4/20/2020	4/15/2020 4/27/2020			< 0.4945	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989		<0.0990 <0.0990 <0.0989 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	< 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200	< 1.00 < 1.00	< 0.500 < 0.500	0.0016	< 1.00 < 1.00	7.6 1.5 7.7 4.1
2004361	Discharge	4/27/2020	4/27/2020	<148.2		< 0.4945	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999		< 0.0999	< 0.0999		< 0.0999 < 0.0999	< 0.0999	< 0.0999	< 1.00	< 0.500	< 1.00		< 0.200	1.21		0.0005	< 1.00	7.7 2.5
2005014 2005090	Discharge Discharge	5/4/2020 5/11/2020	5/6/2020 5/13/2020	< 149.7 < 149.4	< 50	<b>0.253</b> < 0.4945	< 0.0994	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988		< 0.0994 < 0.0988	< 0.0994 < 0.0988		<0.0994 < 0.0994 <0.0988 <0.0988	< 0.0994 < 0.0988	< 0.0994 < 0.0988	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200	< 1.00 10.3	< 0.500	0.0021	< 1.00 < 1.00	7.6 1.6 7.6 2.2
2005200	Discharge	5/18/2020	5/20/2020	-		< 0.4945	< 0.0999	< 0.0999	< 0.0909	< 0.0900	< 0.0900	< 0.0999	< 0.0999	< 0.0300	< 0.0900	< 0.0900	< 0.0999	< 0.0900		<0.0900	< 0.0999		<0.0999 <0.0999	< 0.0999	< 0.0999	< 1.00	< 0.500	< 1.00		< 0.200	<1.00	< 0.500	0.0014	< 1.00	7.7 1.9
2005314 2006014	Discharge Discharge	5/26/2020 6/1/2020	6/4/2020 6/4/2020	< 149.4 < 149.1		< 0.4945 < 0.4945	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 0.409	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987		<0.0994 <0.0994 <0.0987 <0.0987	<0.0994 <0.0987	<0.0994 <0.0987	< 1.00 < 1.00	< 0.500	< 1.00 < 1.00	< 1.00 < 1.00	< 0.200	1.43 1.56	<0.500 <0.500	0.0013	< 1.00 < 1.00	7.7 1.7 7.7 1.2
2006119	Discharge	6/8/2020	6/11/2020			< 0.4945	<0.0987	<0.0981	<0.0981	<0.0981	<0.0987	<0.0981	<0.0987	<0.0981	<0.0981	<0.0981	<0.0981	< 0.0981	<0.0981	<0.0987	<0.0981		<0.0981 <0.0981	< 0.0981	< 0.0981	< 1.00	< 0.500	< 1.00		< 0.200	<1.00	1.26	0.0021	< 1.00	7.6 1.5
2006247 2006342	Discharge	6/15/2020	6/17/2020			< 0.4945	< 0.0995	< 0.0995	< 0.0995	< 0.0995	< 0.0995	< 0.0995	< 0.0995	<0.0995 <0.0994	<0.0995 <0.0994	< 0.0995	< 0.0995	< 0.0995	<0.0995 <0.0994	< 0.0995	< 0.0995		<0.0995 <0.0995 <0.0994 <0.0994	<0.0995 <0.0994	<0.0995 <0.0994	< 1.00 < 1.00	< 0.500	< 1.00		< 0.200	<1.00 <1.00	<0.500 <0.500	0.0026	< 1.00	7.8 1.9
2006342 2006467	Discharge Discharge	6/22/2020 6/29/2020	6/24/2020 7/1/2020	-		< 0.4945	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	< 0.0994	<0.0994	<0.0994 <0.0993	<0.0994 <0.0993	<0.0994 <0.0993	< 0.0994	<0.0994 <0.0993	<0.0994 <0.0993		<0.0994 <0.0994 <0.0993 <0.0993	< 0.0994	< 0.0994	< 1.00	< 0.500 < 0.500	1.91 < 1.00	< 1.00 < 1.00	< 0.200	<1.00	< 0.500	0.0013	< 1.00 < 1.00	7.8 1.5 7.7 1.1
2007055	Discharge	7/6/2020	7/8/2020	< 148.0		< 0.4945	<0.0982	<0.0982	< 0.0982	<0.0982	<0.0982	< 0.0982	<0.0982	< 0.0982	< 0.0982	< 0.0982	< 0.0982	< 0.0982	< 0.0982	< 0.0982	< 0.0982		<0.0982 <0.0982	< 0.0982	<0.0982	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	<1.00	<0.500	0.0012	< 1.00	7.7 7.5
2007178 2007270	Discharge Discharge	7/13/2020 7/20/2020	7/15/2020 7/22/2020			< 0.4945	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	<0.0990	<0.0990 <0.0989	<0.0990 <0.0989		<0.0990 <0.0990 <0.0989 <0.0989	<0.0990 <0.0989	<0.0990 <0.0989	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00		< 0.200	<1.00	<0.500 <0.500	0.0011	< 1.00 < 1.00	7.7 1.8 7.6 1.2
2007364	Discharge	7/27/2020	7/29/2020			< 0.4945	<0.0990	<0.0990	< 0.0990	<0.0990	<0.0990	<0.0990	<0.0990	< 0.0990	< 0.0990	< 0.0990	<0.0990	< 0.0990	<0.0990	< 0.0990	< 0.0990		<0.0990 <0.0990	< 0.0990	<0.0990	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	<1.00	<0.500	0.001	< 1.00	7.7 1.4
2008075 2008128	Discharge Discharge	8/6/2020 8/10/2020	8/10/2020 8/12/2020	< 149.1 < 149.1		< 0.4945	<0.0999 <0.0976	<0.0999 <0.0999	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976		<0.0999 <0.0976	<0.0999 <0.0976		<0.0999 <0.0999 <0.0976 <0.0976	<0.0999 <0.0976	<0.0999 <0.0976	< 1.00 < 1.00	< 0.500 < 0.500	< 1.00	< 1.00 < 1.00	< 0.200	<1.00	<0.500 <0.500	< 0.100	< 1.00	7.7 0.9 7.6 1.1
2008212	Discharge	8/17/2020	8/19/2020	< 149	< 50	< 0.4945	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	<0.0989	-	<0.0989 <0.0989	< 0.0989	<0.0989	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	<1.00	<0.500	0.0008	< 1.00	7.7 1.3
2008314 2008422	Discharge Discharge	8/24/2020 8/31/2020								<0.0988													<0.0988 <0.0988 <0.0982 <0.0982												7.6 1.8 7.7 1.6
2009107	Discharge	9/8/2020	9/10/2020	< 146.7	< 50	< 0.4945	<0.0989	<0.0989	<0.0989	0.127	<0.0989	<0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	< 0.0989	<0.0989	< 0.0989	-	<0.0989 <0.0989	< 0.0989	< 0.0989	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	<1.00	<0.500	< 0.100	< 1.00	7.7 1.4
2009196 2009309	Discharge Discharge	9/14/2020 9/21/2020		< 147.6 < 148.8			<0.0998 <0.0995	<0.0998 <0.0995	<0.0998 <0.0995		<0.0998 <0.0995		<0.0998 <0.0995				<0.0998 <0.0995		<0.0998 <0.0995				<0.0998 <0.0998 <0.0995 <0.0995												7.7 2.5 7.8 1.8
2009511	Discharge	9/28/2020	9/30/2020	< 149.9	< 50	< 0.4945	<0.0999	<0.0999	< 0.0999	< 0.0999	<0.0999	<0.0999	<0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	< 0.0999	<0.0999	< 0.0999	< 0.0999	-	<0.0999 <0.0999	< 0.0999	<0.0999	< 1.00	< 0.500	< 1.00	< 1.00	< 0.200	<1.00	<0.500	< 0.100	< 1.00	7.7 2.0
2010043 2010163	Discharge Discharge	10/5/2020 10/12/2020	10/7/2020 10/14/2020	< 148.2 < 149.7			<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100	<0.0995 <0.100			<0.0995 <0.100		<0.0995 <0.0995 <0.100 <0.100		<0.0995 <0.100									< 1.00 < 1.00	7.6 1.5 7.7 1.7
2010298	Discharge	10/19/2020	10/21/2020	< 149.5	< 50	< 0.4945	<0.0991	<0.0991	<0.0991	<0.0991	<0.0991	<0.0991	< 0.0991	< 0.0991	<0.0991	< 0.0991	< 0.0991	< 0.0991	< 0.0991	<0.0991	<0.0991	-	<0.0991 <0.0991	< 0.0991	<0.0991	< 1.00	< 0.500	0.361	< 1.00	< 0.200	0.840	<0.500	0.0290	< 1.00	7.6 2.0
2010414 2011030	Discharge	10/26/2020 11/3/2020	10/28/2020 11/5/2020	< 147.8 < 148.4				< 0.0986	<0.0986 <0.0985		<0.0986	< 0.0986	<0.0986 <0.0985	<0.0986 <0.0985	<0.0986	< 0.0986	< 0.0986	<0.0986 <0.0985			<0.0986				<0.0986 <0.0985									< 1.00 < 1.00	7.6 1.4 7.7 1.0
2011030	Discharge Discharge	11/9/2020	11/5/2020	< 149.8	< 50	< 0.4945		<0.0985 < 0.0997			<0.0985 < 0.0997	<0.0985 < 0.0997	< 0.0985	< 0.0985	<0.0985 < 0.0997	<0.0985 < 0.0997	<0.0985 < 0.0997	< 0.0997	< 0.0997	< 0.0997			- < 0.0997	< 0.0997	< 0.0997	< 1.00	< 0.500	0.312	< 1.00	< 0.200	<1.00	< 0.500	0.0170	< 1.00	7.8 0.9
2011295	Discharge	11/16/2020	11/18/2020	< 149.8 < 148			<0.0990	<0.0990	<0.0990	< 0.0990	<0.0990	<0.0990	<0.0990	< 0.0990	< 0.0990	< 0.0990	<0.0990	< 0.0990	<0.0990 <0.0995	<0.0990	< 0.0990	·	- <0.0990	< 0.0990	< 0.0990	< 1.00	< 0.500	0.252	< 1.00	< 0.200	<1.00	< 0.500	< 0.100		7.8 1.5
2011465 2011544	Discharge Discharge	11/23/2020 11/30/2020	11/25/2020 12/3/2020	< 148 82.6				<0.0995 <0.0986	<0.0995 <0.0986		<0.0995 <0.0986	<0.0995 <0.0986		<0.0995 <0.0986	<0.0995 <0.0986	<0.0995 <0.0986	<0.0995 <0.0986	<0.0995				<u> </u>	- <0.0986	< 0.0986	<0.0995 <0.0986	< 1.00	< 0.500	0.295	< 1.00	< 0.200	2.50	0.262	< 0.100	< 1.00 < 1.00	
2012094	Discharge	12/7/2020	12/9/2020	20.1	< 50	< 0.4945	<0.0992	<0.0992	< 0.0992	< 0.0992	<0.0992	<0.0992	<0.0992	< 0.0992	<0.0992	<0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	<0.0992		- <0.0992	< 0.0992	<0.0992	< 1.00	< 0.500	0.366	< 1.00	< 0.200	1.93	< 0.500	0.0110		7.7 1.5
2012210 2012385	Discharge Discharge	12/14/2020 12/21/2020	12/17/2020 12/28/2020	< 148.5 9.95			<0.0986 <0.0982		<0.0986 <0.0982		<0.0986 <0.0982	<0.0986 <0.0982		<0.0986 <0.0982	<0.0986 <0.0982	<0.0986 <0.0982	<0.0986 <0.0982	<0.0986 <0.0982							<0.0986 <0.0982									< 1.00 <1.00	7.7 1.0 7.5 1.3
2012480	Discharge	12/29/2020	12/31/2020	<150	< 50	< 0.4945	<0.0998	<0.0998	< 0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	< 0.0998	<0.0998	<0.0998	<0.0998	-	- <0.0998	< 0.0998	<0.0998	< 1.00	< 0.500	0.113	< 1.00	0.124	<1.00	<0.500	<0.100	<1.00	7.3 1.5
2101022 2101136	Discharge Discharge	1/4/2021 1/11/2021	1/8/2021 1/13/2021	<147.7 18.6			<0.0981 <0.0998	<0.0981 <0.0998	<0.0981 <0.0998		<0.0981 <0.0998	<0.0981 <0.0998		<0.0981 <0.0998	<0.0981 <0.0998	<0.0981 <0.0998	<0.0981 <0.0998		<0.0981 <0.0998						<0.0981 <0.0998										7.5 2.0 7.6 1.1
2101283	Discharge	1/18/2021	1/20/2021	<149.8	<50	< 0.4945	<0.0995	<0.0995	< 0.0995	< 0.0995	<0.0995	<0.0995	<0.0995	< 0.0995	<0.0995	<0.0995	<0.0995	< 0.0995	<0.0995	< 0.0995	<0.0995	-	- <0.0995	<0.0995	< 0.0995	< 1.00	< 0.500	1.04	< 1.00	< 0.200	1.25	0.192	0.0110	<1.00	7.5 1.1
2101380 2102013	Discharge Discharge	1/25/2021 2/1/2021	1/27/2021 2/3/2021	<149.1 <199.8			< 0.0997 <0.0998				< 0.0997 < 0.0998	< 0.0997 < 0.0998	< 0.0997 < 0.0998	< 0.0997 < 0.0998	< 0.0997 < 0.0998	< 0.0997 < 0.0998	< 0.0997 < 0.0998		< 0.0997 <0.0998				- < 0.0997 - <0.0998		< 0.0997 < 0.0998									<1.00	7.4 0.8 7.5 1.2
2102013	Discharge	2/1/2021 2/8/2021	2/3/2021 2/10/2021	<198.8	<50	< 0.4945	<0.0998				<0.0998	<0.0998					<0.0998		<0.0998					<0.0980	< 0.0980	< 1.00	< 0.500	0.343	< 1.00	0.358	0.496	0.497	0.0420		7.5 1.2 7.3 1.0
2102226 2102321	Discharge	2/15/2021	2/17/2021	<196				< 0.0998	< 0.0998		<0.0998	< 0.0998		< 0.0998	<0.0998	< 0.0998	< 0.0998	< 0.0998		< 0.0998	<0.0998	-	- <0.0998		< 0.0998									<1.00 <1.00	7.4 1.2
2102321 2103014	Discharge Discharge	2/22/2021 3/1/2021	2/24/2021 3/3/2021	<199 <197			<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993	<0.0991 <0.0993		- <0.0991 - <0.0993		<0.0991 <0.0993									<1.00 <1.00	7.5 0.9 7.6 1.4
2103124	Discharge	3/8/2021	3/10/2021	<199.6					<0.0989		<0.0989		<0.0989			1			<0.0989						<0.0989										7.5 1.2

### Table F-3 Construction Stormwater General Permit Performance and Compliance Monitoring Data Stormwater Treatment System Block 38 West Site Seattle, Washington Farallon PN: 397-019

																	4	Analytical Re	esults (micro	rams per lite	r)																
				Petrole	um Hydro	ocarbons					Polycyclic	Aromatic Hy	drocarbons							Carcino	genic Polyc	yclic Aror	natic Hydro	ocarbons			Chlor	inated Vol	atile Orga	nic Compo	ounds		Metals		Chloroform	Field I	Data
FA ID	Sample Name	ie Sample D	ate Report Da	ë NWTPH-Dx: Diesel & Oil	NWTPH-Gx: Gasoline	втех	Acenaphthene	Acenaphthylene	Anthracene	Benzo(g,h,i)perylene	Fluoranthene	Fluorene	Napthalene	1-Methyinaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene	Benzo(a) anthracene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene**	Benzo(j)fluoranthene**	Benzo(k)fluoranthene**	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Chrysene	Tetrachloroethylene	Trichloroethylene	cis-1,2 Dichloroethene	1,2-Dichloroethane	Vinyl Chloride	Chromium, Total	Lead, Total	Mercury, Total	Chloroform	pH (standard units)*	Turbidity (NTU)*
			AO Indicator Lev	el 250	250	2.0	0.4	0.6	0.6	1.0	0.6	0.6	0.6	10	10	0.6	0.6	1.0	0.6	1.6	2.6	1.0	1.6	1.6	1.0	0.6	2.0	2.0	5.0	2.0	2.0	15.0	27.47	2.10	2.0	6.5 - 8.5	25
2103228	Discharge	3/15/202	3/17/2021	<199	<50	< 0.4945	< 0.0983	< 0.0983	<0.0983	< 0.0983	< 0.0983	< 0.0983	< 0.0983	< 0.0983	<0.0983	< 0.0983	< 0.0983	< 0.0983	< 0.0983	< 0.0983	< 0.0983	-	-	< 0.0983	< 0.0983	< 0.0983	< 1.00	< 0.500	0.865	< 1.00	< 0.200	1.64	0.461	<0.100	<1.00	7.4	0.7
2103339	Discharge	3/22/202	3/24/2021	<196.8	<50	< 0.4945	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	< 0.0984	-		< 0.0984	< 0.0984	< 0.0984	< 1.00	< 0.500	0.472	< 1.00	0.460	2.07	<0.500	<0.100	<1.00	7.5	1.4
2103485	Discharge	3/29/202	4/2/2021	<197	<50	< 1.209	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	< 0.0992	-		< 0.0992	< 0.0992		< 0.400					3.11	<0.500	<0.100	<0.500	7.5	1.2
2104048	Discharge	4/5/202	1 4/8/2021	<197	<50	< 1.209	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	0.0208	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	< 0.0990	-	-	< 0.0990	< 0.0990	< 0.0990	< 0.400	< 0.500	< 0.500	< 0.400	< 0.350	2.25	< 0.500	<0.100	< 0.500	-	-
2104155	Discharge	4/12/202	4/14/2021	<196.2	<50	< 1.209	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994	< 0.0994		-	< 0.0994	< 0.0994	< 0.0994	< 0.400	< 0.500	< 0.500	< 0.400	< 0.350	4.32	<0.500	<0.100	<0.500	-	-
Bold (red) =	neter detected, bu parameter detect	ted at/above indic	ator level																												BTEX = be NTU = Nep			enzene and x	ylenes		
<ul> <li>denotes sar</li> <li>*Indicates fie</li> </ul>	mple not analyzed Id measurement v	d or not measured with Oakton pH n	the laboratory repo l. leter and/or HACH sum of the j and	2100Q Turbidii	meter.	luoranthene	+ benzo(k)fl	luoranthene) 1	īhe																												

\*\*Benzo(j,k)fluoranthene is reported as the sum of the j and k isomers (i.e. benzo(j)fluoranthene + benzo(k)fluoranthene). The Washington State Department of Ecology approved this reporting method in emails dated 10/23/2019. Grey shading indicates that the values reflect water from the Block 37 bore pit; no water from Block 38 was included in these sample results.

### Table E-4 King County Industrial Wastewater Discharge Compliance Data Block 38 West Site Seattle, Washington Farallon PN: 397-019

						Ana	lytical Resu	lts (microgra	ms per lite	er)		_	Analytical Results (milligrams per liter)	Field Data
FA ID	Sample Name	Sample Date	Report Date	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Naphthalene	Tetrachloroethene	Trichloroethene	1,2-Dichloroethene (Total cis- and trans-)	Vinyl Chloride	HEM (oil, total)	pH (standard units)*
	King	g County Industri	al Waste Limit	70	1400	1700	2200	3820	240	500	2000	120	100	5.5 - 12.0
1910392	Discharge	10/22/2019	10/24/2019	< 1.00	< 1.00	< 1.00	< 2.00	< 0.0988	< 1.00	< 0.5	11.6	4.79	< 3.82	-
1911372	Discharge	11/25/2019	12/4/2019	< 1.00	< 1.00	< 1.00	< 2.00	< 0.0989	< 1.00	< 0.5	25.7	14.4	< 3.83	-
1912145	Sewer	12/10/2019	12/17/2019	< 1.00	< 1.00	< 1.00	< 2.00	< 0.0997	< 1.00	< 0.5	30.6	15.0	< 4.18	-
2002190	Discharge	2/11/2020	2/18/2020	< 1.00	< 1.00	< 1.00	< 2.00	2.26	< 1.00	< 0.500	< 2.00	< 0.200	< 3.83	8.1
2003077	Discharge	3/6/2020	3/13/2020	< 0.0747	< 0.0912	< 0.0868	< 0.2418	< 1.00	< 1.00	< 0.500	< 2.00	< 0.200	< 3.84	-
2003289	Discharge	3/17/2020	3/24/2020	< 0.0747	0.125	0.133	0.651	2.77	< 1.00	< 0.500	7.71	< 0.200	< 3.84	8.7
2004089	Sewer	4/7/2020	4/14/2020	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	14.0	< 0.200	9.11	-
2005388	Discharge	5/28/2020	6/4/2020	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	16.4	0.281	< 3.81	-
2006207	Discharge	6/11/2020	6/18/2020	< 0.0747	< 0.0912	< 0.0868	< 0.2418	< 1.00	< 1.00	< 0.500	34.9	< 0.200	< 5.00	-
2007100	Discharge	7/7/2020	7/14/2020	< 0.0747	< 0.0912	< 0.0868	< 0.2418	< 1.00	< 1.00	< 0.500	40.1	0.444	< 3.92	7.9
	Discharge	8/4/2020	8/11/2020	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	27.5	< 0.200	< 3.82	-
2009552	Sewer	9/29/2020	10/7/2020	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	43.4	< 0.200	< 3.80	7.1
2010464	Discharge	10/28/2020	11/3/2020	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	37.1	< 0.200	< 3.85	-
2102421	Discharge	2/26/2021	3/4/2021	< 1.00	< 1.00	< 1.00	< 2.00	< 1.00	< 1.00	< 0.500	28.23	0.867	< 3.86	-

<u>NOTES:</u>

**Bold** = parameter detected, but below KCIW limit.

Bold (red) = parameter detected at/above KCIW limit.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

- denotes sample not analyzed or not measured.

\*Indicates field measurement with Oakton pH meter.

Grey shading indicates that the values reflect water from the Block 37 bore pit; no water from Block 38 was included in these sample results.

HEM = hexane extractable materials KCIW = King County Industrial Waste Limit

### APPENDIX F DATA VALIDATION REPORT

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019



### **DATA VALIDATION REPORT**

### BLOCK 38 WEST SITE 500 THROUGH 536 WESTLAKE AVENUE NORTH SEATTLE, WASHINGTON

Agreed Order No. DE 17963 Facility Site Identification No. 62773 Cleanup Site Identification No. 15008

> Submitted by: Farallon Consulting, L.L.C. 975 5<sup>th</sup> Avenue Northwest Issaquah, Washington 98027

> > Farallon PN: 397-019

For: City Investors IX LLC 505 5<sup>th</sup> Avenue South Seattle, Washington 98104

August 13, 2021

Prepared by:

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Eric Buer, L.G., L.H.G. Principal Hydrogeologist



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	6.2 6.3 <b>SEM</b> 7.1 7.2 7.3 <b>PCB</b> 8.1 8.2 <b>MET</b> 9.1 9.2	6.2 FIELI 6.3 LABC 6.3.1 6.3.2 6.3.3 6.3.4 <b>SEMIVOLA</b> 7.1 TIME 7.2 FIELI 7.3 LABC 7.3.1 7.3.2 7.3.3 7.3.4 <b>PCB AROCI</b> 8.1 TIME 8.2 LABC 8.2.1 8.2.2 8.2.3 8.2.4 <b>METALS Q</b> 9.1 TIME 9.2 LABC 9.2.1 9.2.2 9.2.3	6.2       FIELD QUALITY CONTROL SAMPLES

### **TABLES**

Table 1Overview of	of Soil	Sample	Analyses
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- Table 2Summary of Qualified Data
- Table 3FMW-134 Sample and Field Duplicate Precision Summary



### **1.0 INTRODUCTION**

This report provides a summary of quality assurance (QA) data validation findings. Data validation was performed for the following environmental samples:

Project Name:	Block 38 West Site
Project No.:	397-019
Lab Name:	OnSite Environmental Inc. (OnSite), Redmond, Washington
Lab Reference No.:	55 Sample Delivery Groups identified in Table 1
Matrices:	Soil and Groundwater

Table 1 identifies the 55 Sample Delivery Groups (SDGs) analyzed by OnSite, the number of samples within each delivery group, the sample matrix, and the analytical methods used to analyze one or more samples within each delivery group.

This review of project data was performed using the U.S. Environmental Protection Agency's (EPA) National Functional Guidelines for Organic Superfund Methods Data Review (USEPA-540-R-2017-002) dated January 2017, and National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA-540-R-2017-001) dated January 2017.

This report includes a review of holding times, method blanks, matrix spike and spike blank recoveries, matrix spike duplicate and spike blank duplicate data, duplicates, surrogates, and chainof-custody records. As shown in Table 1, select samples were analyzed for total petroleum hydrocarbons (TPH) in the diesel- and oil-range by Northwest Method NWTPH-Dx, TPH in the gasoline-range by Northwest Method NWTPH-Gx, and TPH by Northwest Method NWTPH-HCID (hydrocarbon identification); volatile organic compounds (VOCs) by EPA Method 8021B; VOCs by EPA Method 8260C or 8260D; semivolatile organic compounds (SVOCs) by EPA Method 8270D/Selective Ion Monitoring (SIM) mode or 8270E/SIM; polychlorinated biphenyl (PCB) Aroclors by EPA Method 8082A; metals by EPA Method 6010D or 6020B, and mercury by EPA Method 7471B.

### 1.1 OVERALL DATA ASSESSMENT

All data are of known quality and are acceptable for use. No results were rejected as a result of this data assessment. Data qualified during this validation effort is summarized in Table 2 and discussed in the sections below.



### **1.2 DATA QUALIFIER DEFINITIONS**

Following are definitions of data qualifiers used during data validation:

- J+ (Estimated High Bias): The result is an estimated quantity and the result may be biased high based on non-conformances identified during data validation.
- J- (Estimated Low Bias): The result is an estimated quantity and the result may be biased low based on non-conformances identified during data validation.
- J- (Estimated): The result is an estimated quantity based on non-conformances identified during data validation.
- UJ (Non-detected estimated): The analyte was reported as not detected by the laboratory; however, the reporting limit is estimated due to non-conformances identified during data validation.

### **1.3** CHAIN-OF-CUSTODY

Field chain-of-custody forms were complete. All chain-of-custody forms were signed and dated. No issues with sample receipt conditions were indicated in the Case Narrative section of the laboratory reports except as noted below. All samples listed on the chain-of-custody forms were analyzed as indicated:

- **SDG 1901-097:** Volatile organic analysis vials were not received for sample PH-13-3.0-011219 in accordance with Method 5035A for analysis by Northwest Method NWTPH-Gx. A sample aliquot was extracted from a 4-ounce jar for analysis and some loss of volatiles may have occurred. The non-detect result for this sample is qualified as not detected and the reporting limit is an estimate (UJ) as shown in Table 2.
- **SDG 1901-158:** Volatile organic analysis vials were not received for sample PH-11A-4.0-011919 in accordance with Method 5035A for analysis by Northwest Method NWTPH-Gx. A sample aliquot was extracted from a 4-ounce jar for analysis and some loss of volatiles may have occurred. The non-detect result for this sample is qualified as not detected and the reporting limit is an estimate (UJ) as shown in Table 2.
- **SDG 2002-223:** Soil samples I3-B-15.0, I3-B-20.0, N2-B-10.0, and N2-B-15.0 were received by the laboratory 2 hours outside the 48-hour holding time specified by Method 5035A for unpreserved samples to be analyzed by Northwest Method NWTPH-Gx and



EPA Method 8021B. The non-detect results for these samples are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.

### **1.4 COMPLETENESS**

Completeness is expressed as the ratio of valid results to the amount of data expected to be obtained under normal conditions. Completeness is determined by assessing the number of samples for which valid results were obtained versus the number of samples that were submitted to the laboratory for analysis. Valid results are results that are determined to be usable during the data validation review process.

The completeness of this data set is 100 percent.



### 2.0 PETROLEUM HYDROCARBON NWTPH-DX QA REVIEW

### 2.1 TIMELINESS AND PRESERVATION

The recommended holding time for Northwest Method NWTPH-Dx soil and preserved groundwater samples is 14 days to extract and 40 days to analyze after extraction. All samples were extracted and analyzed within holding times except for the following sample:

• **SDG 1912-093:** Soil sample N3-20.0-121019 was analyzed 1 day outside of the holding time. The non-detect results for this sample are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.

### 2.2 FIELD QUALITY CONTROL SAMPLES

One field duplicate water sample was collected and analyzed by Northwest Method NWTPH-Dx. The duplicate sample and parent sample are:

Field Duplicate Sample ID	Parent Sample ID
FMW500-122818	FMW134-122818

See Table 3 for the calculation of the relative percent difference (RPD) for diesel- and oil-range organics. The results were less than five times the practical quantitation limit (PQL) so the absolute differences between the results were calculated. The absolute RPD differences were below standard RPD limits of less than one times the PQL when the original or duplicate sample results are less than five times the PQL.

### **2.3** LABORATORY QUALITY CONTROL SAMPLES

### 2.3.1 Quality Control Analysis Frequency

Method blanks were analyzed at a minimum frequency of 5 percent (or one per batch). Duplicates were analyzed at a rate of 1 duplicate per 10 samples with a minimum of 1 duplicate per SDG. These criteria were met for all delivery groups.

### 2.3.2 Method Blanks

No target analytes were detected in the soil or groundwater method blanks at or exceeding the reporting limits for all delivery groups.

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### 2.3.3 Laboratory Duplicates

RPDs of all analytes were within the laboratory's quality control (QC) limits for all delivery groups. In cases where the RPD was elevated, the duplicate was performed on a non-project sample where heterogeneity and matrix impacts may have been present. No qualification of project samples is needed.

### 2.3.4 Surrogate Recoveries

The laboratory used one surrogate spike compound for Method NWTPH-Dx. All surrogate recoveries were within the laboratory's QC limits for all delivery groups except as noted below. The o-terphenyl surrogate spike was not recovered in the following samples due to sample dilution to address high concentrations of target analyses:

- **SDG 1808-229:** Sample FB-01-5.0-082118;
- **SDG 1901-158:** Sample PH-12-4.0-011919;
- **SDG 1912-207:** Sample TP-2-15.0-121919;
- **SDG 1912-230:** Sample FB-08-2.5;
- **SDG 2001-179:** Sample M1-24.5;
- **SDG 2001-349:** Sample UST-01-line-21.0;
- SDG 2002-097: Sample N1-WSW-17.0; and
- **SDG 2002-150:** Sample K3-B-20.0.

No qualifications of sample results are needed based on the lack of surrogate recovery in these samples.



### **3.0 PETROLEUM HYDROCARBON NWTPH-GX QA REVIEW**

### 3.1 TIMELINESS AND PRESERVATION

The recommended holding time for Northwest Method NWTPH-Gx soil and preserved groundwater samples is 14 days. All samples were extracted and analyzed within this period except as noted below:

- **SDG 1912-093:** Soil sample N3-20.0-121019 was analyzed 1 day outside of the holding time. The non-detected gasoline result for this sample is qualified as not detected and the reporting limit is an estimate (UJ) as shown in Table 2.
- **SDG 2002-032:** Soil samples H4-ESW-20.0 and H4-ESW2-20.0 were analyzed 7 days outside of the holding time. The non-detected gasoline results for these two samples are qualified as non-detected estimated (UJ) as shown in Table 2.
- **SDG 2002-223:** Soil samples I3-B-15.0, I3-B-20.0, N2-B-10.0, and N2-B-15.0 were received by the laboratory 2 hours outside the 48-hour holding time specified for unpreserved samples to be analyzed by Northwest Method NWTPH-Gx as noted in Section 1.3. The non-detect results for these samples are qualified as non-detected estimated (UJ) as shown in Table 2.

### **3.2** FIELD QUALITY CONTROL SAMPLES

One field duplicate water sample was collected and analyzed by Northwest Method NWTPH-Gx. The duplicate sample and parent sample are:

Field Duplicate Sample ID	Parent Sample ID
FMW500-122818	FMW134-122818

See Table 3 for the calculation of the RPDs for gasoline-range organics. Gasoline-range organics were not detected in the field duplicate or parent sample.



### **3.3** LABORATORY QUALITY CONTROL SAMPLES

### 3.3.1 Quality Control Analysis Frequency

Method blanks were analyzed at a frequency of 1 method blank per 10 samples. Duplicates, spike blanks/spike blank duplicates, and/or matrix spikes/matrix spike duplicates were analyzed at a frequency of 1 per 10 samples. These criteria were met for all delivery groups.

### 3.3.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 3.3.3 Laboratory Duplicates, Spike Blanks/Spike Blank Duplicates, and/or Matrix Spikes/Matrix Spike Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups.

### 3.3.4 Surrogate Recoveries

The laboratory used one surrogate spike compound for Method NWTPH-Gx. All surrogate recoveries were within the laboratory's QC limits for all delivery groups.



### 4.0 PETROLEUM HYDROCARBON NWTPH-HCID QA REVIEW

### 4.1 TIMELINESS AND PRESERVATION

The recommended holding time for Northwest Method NWTPH-HCID soil samples is 14 days to extract and 40 days to analyze after extraction. All samples were extracted and analyzed within holding times.

### 4.2 LABORATORY QUALITY CONTROL SAMPLES

### 4.2.1 Quality Control Analysis Frequency

Method blanks were analyzed at a frequency of 1 method blank per 10 samples. These criteria were met for all delivery groups.

### 4.2.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 4.2.3 Surrogate Recoveries

The laboratory used one surrogate spike compound for Method NWTPH-HCID. Surrogates were not able to be recovered for the following:

- **SDG 2001-179:** The surrogate o-terphenyl was not able to be recovered in Sample M1-24.5-Product due to the necessary dilution of the sample as a result of the elevated concentrations of target analytes. No qualifications of sample results are needed.
- **SDG 2002-043:** The surrogate o-terphenyl was not able to be recovered in Sample UST-02-Product due to the necessary dilution of the sample as a result of the elevated concentrations of target analytes. No qualifications of sample results are needed.



### 5.0 VOLATILE ORGANIC COMPOUND 8021B QA REVIEW

### 5.1 TIMELINESS

The recommended holding time for EPA Method 8021B is 14 days for soil samples and 14 days for preserved water samples. All samples were extracted and analyzed within this period except as noted below:

- **SDG 1912-093:** Soil sample N3-20.0-121019 was analyzed 1 day outside of the holding time. The non-detected results for this sample are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.
- **SDG 2002-223:** Soil sample I3-B-20.0 was received by the laboratory 2 hours outside the 48-hour holding time specified by Method 5035A for preservation of samples to be analyzed by EPA Method 8021B as noted in Section 1.3, Chain-of-Custody. The non-detect results for this sample are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.

### 5.2 LABORATORY QUALITY CONTROL SAMPLES

### 5.2.1 Quality Control Analysis Frequency

Method blanks were analyzed at a frequency of 1 method blank per 10 samples. Duplicates, spike blanks/spike blank duplicates, and/or matrix spikes/matrix spike duplicates were analyzed at a frequency of 1 per 10 samples. These criteria were met for all delivery groups.

### 5.2.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 5.2.3 Laboratory Duplicates, Spike Blanks/Spike Blank Duplicates, and/or Matrix Spikes/Matrix Spike Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups.

### 5.2.4 Surrogate Recoveries

The laboratory used one surrogate spike compound for EPA Method 8021B. All surrogate recoveries were within the laboratory's QC limits for all delivery groups.

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### 6.0 VOLATILE ORGANIC COMPOUND 8260C/D QA REVIEW

### 6.1 TIMELINESS

The recommended holding time for EPA Method 8260C/8260D is 14 days for preserved soil samples and 14 days for preserved water samples. All samples were extracted and analyzed within this period.

### 6.2 FIELD QUALITY CONTROL SAMPLES

One field duplicate water sample was collected and analyzed by EPA Method 8260C. The duplicate sample and parent sample are:

Field Duplicate Sample ID	Parent Sample ID
FMW500-122818	FMW134-122818

See Table 3 for calculation of the RPDs for VOCs. VOCs were not detected in the field duplicate or parent sample.

### 6.3 LABORATORY QUALITY CONTROL SAMPLES

### 6.3.1 Quality Control Analysis Frequency

Method blanks were analyzed at a frequency of 1 method blank per 10 samples. Spike blanks/spike blank duplicates were analyzed at a frequency of 1 per 10 samples. These criteria were met for all delivery groups.

### 6.3.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 6.3.3 Spike Blanks/Spike Blank Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups.



### 6.3.4 Surrogate Recoveries

The laboratory used three surrogate spike compounds for EPA Method 8260C/8260D. All surrogate recoveries were within the laboratory's QC limits for all delivery groups.



### 7.0 SEMIVOLATILE ORGANIC COMPOUND QA REVIEW

### 7.1 TIMELINESS

The recommended holding time for EPA Method 8270D/SIM or 8270E/SIM soil samples is 14 days to extract and 40 days to analyze after extraction; and the recommended holding time for water samples is 7 days to extract and 40 days to analyze after extraction. All samples were extracted and analyzed within this period except for the following:

- **SDG 1808-272:** Soil sample FB-06-10.0-082218 was extracted and analyzed 1 day outside of the holding time. The non-detect results for this sample are qualified as not detected, the reporting limits are estimates (UJ), and the one detected analyte (pyrene) is qualified as an estimate (J) as shown in Table 2.
- **SDG 2002-069:** Soil sample N2-B-20.0 was extracted and analyzed 5 days outside of the holding time. The results for this sample are qualified as estimates (J).

### 7.2 FIELD QUALITY CONTROL SAMPLES

One field duplicate water sample was collected and analyzed by EPA Method 8270D/SIM. The duplicate sample and parent sample are:

Field Duplicate Sample ID	Parent Sample ID
FMW500-122818	FMW134-122818

See Table 3 for calculation of the RPDs for SVOCs. Where sample results were less than five times the PQL, the absolute difference between the results was calculated instead of an RPD. The results were compared to the following criteria: an RPD less than 20 percent, or an absolute difference less than the PQL for results less than five times the PQL. Four polycyclic aromatic hydrocarbons results for water sample FMW134-122818 and its duplicate did not meet the criteria, and these original and duplicate results are qualified as estimates (J) as shown on Table 2.



### 7.3 LABORATORY QUALITY CONTROL SAMPLES

### 7.3.1 Quality Control Analysis Frequency

Method blanks and spike blanks/spike blank duplicates (or matrix spikes/matrix spike duplicates) were analyzed at a minimum frequency of 5 percent (or one per batch). These criteria were met for all delivery groups.

### 7.3.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 7.3.3 Spike Blanks/Spike Blank Duplicates and/or Matrix Spikes/Matrix Spike Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups except for the following:

• **SDG 1808-272:** The percent recovery of pentachlorophenol in the spike blank duplicate exceeded the upper control limit. This analyte was not detected in the one sample in the associated batch and no action is needed.

### 7.3.4 Surrogate Recoveries

The laboratory used between three and six surrogate spike compounds for EPA Method 8270D/SIM or 8270E/SIM for soil and water samples depending on the list of reported SVOCs. Surrogate recoveries were within the laboratory's QC limits for all delivery groups except as noted below:

- **SDG 1808-293:** The percent recovery of the surrogate 2,4,6-tribromophenol was less than the lower control limit for soil sample FMW-133-20.0-082418. The non-detect results associated with this surrogate for this sample are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.
- **SDG 1808-374:** The percent recovery of the surrogate 2-fluorobiphenyl exceeded the upper control limit in the water method blank. Surrogate recoveries in all project samples in this delivery group were within control limits and no action is needed.
- **SDG 1808-375:** The percent recovery of the surrogate 2-fluorobiphenyl exceeded the upper control limit in the water method blank. Surrogate recoveries in all project samples in this delivery group were within control limits and no action is needed.



- **SDG 1901-158:** The percent recovery of the surrogate terphenyl-d14 was less than the lower control limit for soil sample PH-11A-4.0-011919. All results are qualified as estimates with a low bias (J-) as shown in Table 2.
- **SDG 1912-256:** The percent recovery of the surrogate pyrene-d10 exceeded the upper control limit for water sample FMW-146-122619. The analytes associated with this surrogate compound, benzo(a)anthracene and chrysene, were detected in the sample and the results are qualified as estimates with a high bias (J+). The percent recovery of pyrene-d10 exceeded the upper control limit in spike blank SB1226W1 and spike blank duplicate SB1231W2. No action is needed as this surrogate was within control limits for the other project samples in the batch except for FMW-146-122619 as described earlier.
- **SDG 2001-349:** The percent recovery of the surrogate 2-fluorobiphenyl exceeded the upper control limit in soil sample UST-01-line-21.0. The analytes associated with this surrogate compound, 2-methylnaphthalene and 1-methylnaphthalene, were detected in the sample and the results are qualified as estimates with a high bias (J+).
- **SDG 2002-032:** Surrogates were not able to be recovered in soil sample I4-ESW-20.0 due to the necessary dilution of the sample as a result of elevated concentrations of target analytes. No qualifications of sample results are needed.



### 8.0 PCB AROCLORS QA REVIEW

### 8.1 TIMELINESS

There is no recommended holding time specified in the method for soil and water samples analyzed by EPA Method 8082A due to the stability of PCBs in environmental samples. However, many programs and laboratories default to the holding time for SVOCs of 7 days to extraction for water samples, 14 days to extraction for soil samples, and 40 days to analyze after extraction for both matrices. All samples were analyzed within 1 to 3 days after collection.

### 8.2 LABORATORY QUALITY CONTROL SAMPLES

### 8.2.1 Quality Control Analysis Frequency

Method blanks and spike blanks/spike blank duplicates (or matrix spikes/matrix spike duplicates) were analyzed at a minimum frequency of 5 percent (or one per batch). These criteria were met for all delivery groups.

### 8.2.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 8.2.3 Spike Blanks/Spike Blank Duplicates and/or Matrix Spikes/Matrix Spike Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups.

### 8.2.4 Surrogate Recoveries

The laboratory used one surrogate spike compound for EPA Method 8082A for soil and water samples. Surrogate recoveries were within the laboratory's QC limits for all delivery groups except as noted below:

• **SDG 1912-256:** The percent recovery of the surrogate decachlorobiphenyl was less than the lower control limit for water samples FMW-145-122619 and FMW-146-122619. Aroclors were not detected in the samples and all results are qualified as not detected and the reporting limits are estimates (UJ) as shown in Table 2.



### 9.0 METALS QA REVIEW

### 9.1 TIMELINESS

The recommended holding time for EPA Method 6010D or 6020B is 6 months for soil samples. The recommended holding time for EPA Method 7471B (mercury in soil) is 28 days. All samples were extracted and analyzed within holding times.

### 9.2 LABORATORY QUALITY CONTROL SAMPLES

### 9.2.1 Quality Control Analysis Frequency

Method blanks, matrix spikes/matrix spike duplicates, and laboratory duplicates were analyzed at a frequency of 5 percent (or one per batch). These criteria were met for all delivery groups.

### 9.2.2 Method Blanks

No target analytes were detected at or exceeding the reporting limits in the method blanks for all delivery groups.

### 9.2.3 Matrix Spikes/Matrix Spike Duplicates and Laboratory Duplicates

Recoveries and RPDs of all analytes were within the laboratory's QC limits for all delivery groups except as noted below:

- **SDG 1808-217:** The laboratory duplicate RPD for chromium exceeded the RPD control limit. The laboratory duplicate analysis was conducted on a non-project sample within the batch; the laboratory noted that the result may be due to sample soil material heterogeneity. The laboratory re-analyzed the sample with similar results. No action is needed as the duplicate analysis was not performed on a project sample.
- **SDG 1808-229:** The laboratory duplicate RPD for chromium exceeded the RPD control limit. The laboratory duplicate analysis was conducted on a non-project sample within the batch; the laboratory noted that the result may be due to sample soil material heterogeneity. The laboratory re-analyzed the sample with similar results. No action is needed as the duplicate analysis was not performed on a project sample.
- **SDG 2001-279:** The laboratory duplicate RPD for lead exceeded the RPD control limit. The laboratory duplicate analysis was conducted on a non-project sample within the batch; the laboratory noted that the result may be due to sample soil material heterogeneity. The

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laboratory re-analyzed the sample with similar results. No action is needed as the duplicate analysis was not performed on a project sample.

• **SDG 2001-280:** The laboratory duplicate RPD for lead exceeded the RPD control limit. The laboratory duplicate analysis was conducted on a non-project sample within the batch; the laboratory noted that the result may be due to sample soil material heterogeneity. The laboratory re-analyzed the sample with similar results. No action is needed as the duplicate analysis was not performed on a project sample.



### **10.0 REFERENCES**

- U.S. Environmental Protection Agency (EPA). 2017a. National Functional Guidelines for Inorganic Superfund Methods Data Review. OLEM 9355.0-135, EPA-540-R-2017-001. January.
- ———. 2017b. National Functional Guidelines for Organic Superfund Methods Data Review. OLEM 9355.0-136, EPA-540-R-2017-002. January.

### TABLES

### DATA VALIDATION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

## Table 1Overview of Soil Sample AnalysesBlock 38Seattle, WashingtonFarallon PN: 397-019

Lab Sample		Number of	Analytical Method							
Delivery Group	Matrix	Samples	NWTPH-Dx	NWTPH-Gx	NWTPH-HCID	EPA 8021B	EPA 8260C/D	EPA 8270D/E/SIM	EPA 8082A	EPA 6010D/6020B//7471B
1808-217	Soil	4	Х	Х		Х	Х	Х		Х
1808-229	Soil	8	Х	Х		Х	Х	Х		Х
1808-272	Soil	7	Х	X		Х	Х	Х		Х
1808-271	Soil	3	Х	Х		Х	Х	Х		Х
1808-277	Soil	6	Х	Х		Х		Х		Х
1808-292	Soil	6	Х	Х		Х	Х	Х		Х
1808-293	Soil	3	Х	Х		Х		Х		Х
1808-374	Groundwater	4	Х	Х			Х	Х		
1808-375	Groundwater	2	Х	Х			Х	Х		
1812-267	Groundwater	7	Х	Х			Х	Х		
1901-097	Soil	1	Х	Х				Х		
1901-158	Soil	2	Х	Х				Х		
1901-216	Soil	1						Х		
1903-242	Groundwater	6	Х	Х		Х		Х		
1912-093	Soil	1	Х	Х		Х				
1912-141	Soil	1	Х	Х		Х				
1912-207	Soil	4	Х	Х		Х		Х		
1912-230	Soil	10	Х	Х		Х		Х		
1912-231	Soil	18	Х	Х		Х		Х		
1912-240	Soil	1	Х	Х			Х	Х	Х	Х
1912-256	Groundwater	5	Х	Х		Х	Х	Х	Х	
2001-112	Soil	2	Х							
2001-179	Soil	1	Х		Х					
2001-199	Soil	1		Х			Х	Х	Х	Х
2001-279	Soil	1	Х	Х			Х	Х	Х	Х
2001-280	Soil	4	Х				Х	Х		Х
2001-348	Soil	4	Х					Х		
2001-349	Soil	1	Х					Х		Х
2002-014	Soil	4	Х					Х		
2002-115	Soil	4	Х					Х		
2002-032	Soil	9	Х	Х				Х		
2002-043	Soil	2	Х	Х	Х		Х	Х	Х	
2002-069	Soil	7	Х			Х		Х		
2002-081	Soil	10	Х					Х		
2002-097	Soil	4	Х							Х
2002-150	Soil	3	Х	Х				Х		
2002-163	Soil	10	Х	Х			Х	Х		
2002-174	Soil	1	Х							
2002-199	Soil	3	Х	Х				Х		
2002-208	Soil	2		Х				Х		
2002-215	Soil	1	Х							
2002-223	Soil	14	Х	Х		Х		Х		
2002-240	Soil	11	Х	Х				Х		
2002-241	Soil	3		Х						

### Table 1Overview of Soil Sample AnalysesBlock 38Seattle, WashingtonFarallon PN: 397-019

Lab Sample		Number of	Analytical Method							
Delivery Group	Matrix	Samples	NWTPH-Dx	NWTPH-Gx	NWTPH-HCID	EPA 8021B	EPA 8260C/D	EPA 8270D/E/SIM	EPA 8082A	EPA 6010D/6020B//7471B
2002-263	Soil	6	Х	Х						
2002-275	Soil	15	Х	Х				Х		
2002-293	Soil	9	Х	Х				Х		
2002-303	Soil	9	Х					Х		
2003-002	Soil	2						Х		
2004-206	Soil	1	Х							
2004-218	Soil	1						Х		
2005-017	Soil	5						Х		
2005-214	Soil	1	Х	Х		Х		Х		
2006-023	Soil	1	Х	Х		Х		Х		
2006-045	Soil	4	Х	Х		Х		Х		

NOTES:

An "X" indicates one or more samples within the delivery group were analyzed by the method specified in that column.

EPA = U.S. Environmental Protection Agency

### Table 2Summary of Qualified DataBlock 38Seattle, WashingtonFarallon PN: 397-019

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	n-Nitrosodimethylamine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Pyridine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Phenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Aniline	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	bis(2-Chloroethyl)ether	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Chlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,3-Dichlorobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,4-Dichlorobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzyl alcohol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,2-Dichlorobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Methylphenol (o-Cresol)	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	bis(2-Chloroisopropyl)ether	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	(3+4)-Methylphenol (m,p-Cresol)	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	n-Nitroso-di-n-propylamine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Hexachloroethane	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Nitrobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Isophorone	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Nitrophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4-Dimethylphenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	bis(2-Chloroethoxy)methane	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4-Dichlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,2,4-Trichlorobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Naphthalene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Chloroaniline	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Hexachlorobutadiene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Chloro-3-methylphenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Methylnaphthalene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1-Methylnaphthalene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Hexachlorocyclopentadiene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4,6-Trichlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,3-Dichloroaniline	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4,5-Trichlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Chloronaphthalene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2-Nitroaniline	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,4-Dinitrobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Dimethylphthalate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,3-Dinitrobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,6-Dinitrotoluene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1,2-Dinitrobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Acenaphthylene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	3-Nitroaniline	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4-Dinitrophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Acenaphthene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Nitrophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,4-Dinitrotoluene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Dibenzofuran	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,3,5,6-Tetrachlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	2,3,4,6-Tetrachlorophenol	UJ	Sample analyzed outside of holding time

### Table 2Summary of Qualified DataBlock 38Seattle, WashingtonFarallon PN: 397-019

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Diethylphthalate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Chlorophenyl-phenylether	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Nitroaniline	UJ Sample analyzed outside of holding time	
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Fluorene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4,6-Dinitro-2-methylphenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	n-Nitrosodiphenylamine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	1.2-Diphenvlhydrazine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	4-Bromophenyl-phenylether	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Hexachlorobenzene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Pentachlorophenol	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Phenanthrene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Anthracene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Carbazole	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Di-n-butylphthalate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Fluoranthene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzidine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Pyrene	J	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Butylbenzylphthalate	, UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	bis-2-Ethylhexyladipate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	3.3'-Dichlorobenzidine	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzo[a]anthracene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Chrysene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	bis(2-Ethylhexyl)phthalate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Di-n-octylphthalate	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzo[b]fluoranthene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzo(j,k)fluoranthene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzo[a]pyrene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Indeno[1,2,3-cd]pyrene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Dibenz[a,h]anthracene	UJ	Sample analyzed outside of holding time
FB-06-10.0-082218	1808-272	Soil	EPA 8270D/SIM	Benzo[g,h,i]perylene	UJ	Sample analyzed outside of holding time
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	4-Chloro-3-methylphenol	UJ	Percent recovery of surrogate 2.4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	2.4.6-Trichlorophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	2,4,5-Trichlorophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	2,4-Dinitrophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	4-Nitrophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	2,3,5,6-Tetrachlorophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM	2,3,4,6-Tetrachlorophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM EPA 8270D/SIM	4,6-Dinitro-2-methylphenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW-133-20.0-082418	1808-293	Soil	EPA 8270D/SIM EPA 8270D/SIM	Pentachlorophenol	UJ	Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit Percent recovery of surrogate 2,4,6-tribromophenol was below the lower control limit
FMW134-122818	1808-293	Groundwater	EPA 8270D/SIM EPA 8270D/SIM	Naphthalene	J	
FMW134-122818 FMW134-122818	1812-267	Groundwater	EPA 8270D/SIM EPA 8270D/SIM	2-Methylnaphthalene	J	Parent sample and field duplicate RPD exceeds control limit Parent sample and field duplicate RPD exceeds control limit
FMW134-122818	1812-267	Groundwater	EPA 8270D/SIM EPA 8270D/SIM	1-Methylnaphthalene	J	Parent sample and field duplicate RPD exceeds control limit
FMW134-122818	1812-267	Groundwater	EPA 8270D/SIM EPA 8270D/SIM	7 I	J	Parent sample and field duplicate RPD exceeds control limit
FMW134-122818 FMW500-122818	1812-267		EPA 8270D/SIM EPA 8270D/SIM	Acenaphthene	J	
		Groundwater		Naphthalene	J	Parent sample and field duplicate RPD exceeds control limit
FMW500-122818	1812-267	Groundwater	EPA 8270D/SIM	2-Methylnaphthalene	J	Parent sample and field duplicate RPD exceeds control limit
FMW500-122818	1812-267	Groundwater	EPA 8270D/SIM	1-Methylnaphthalene	J	Parent sample and field duplicate RPD exceeds control limit
FMW500-122818	1812-267	Groundwater	EPA 8270D/SIM	Acenaphthene	J	Parent sample and field duplicate RPD exceeds control limit

# Table 2Summary of Qualified DataBlock 38Seattle, WashingtonFarallon PN: 397-019

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
PH-13-3.0-011219	1901-097	Soil	NWTPH-Gx	Gasoline	UJ	VOA vials not provided for sample per Method 5035A; sample extracted from 4-ounce jar
PH-11A-4.0-011919	1901-158	Soil	NWTPH-Gx	Gasoline	UJ	VOA vials not provided for sample per Method 5035A; sample extracted from 4-ounce jar
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Benzo[a]anthracene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Chrysene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Benzo[b]fluoranthene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Benzo(j,k)fluoranthene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Benzo[a]pyrene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Indeno(1,2,3-c,d)pyrene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
PH-11A-4.0-011919	1901-158	Soil	EPA 8270D/SIM	Dibenz[a,h]anthracene	J-	Percent recovery of surrogate terphenyl-d14 was below the lower control limit
N3-20.0-121019	1912-093	Soil	NWTPH-Gx	Gasoline	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	EPA 8021B	Benzene	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	EPA 8021B	Toluene	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	EPA 8021B	Ethyl Benzene	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	EPA 8021B	m,p-Xylene	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	EPA 8021B	o-Xylene	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	NWTPH-Dx	Diesel Range Organics	UJ	Sample analyzed outside of holding time
N3-20.0-121019	1912-093	Soil	NWTPH-Dx	Oil Range Organics	UJ	Sample analyzed outside of holding time
FMW-146-122619	1912-256	Groundwater	EPA 8270E/SIM	Benzo[a]anthracene	J+	Percent recovery of surrogate pyrene-d10 exceeded the upper control limit
FMW-146-122619	1912-256	Groundwater	EPA 8270E/SIM	Chrysene	J+	Percent recovery of surrogate pyrene-d10 exceeded the upper control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1016	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1221	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1232	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1242	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1248	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1254	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-145-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1260	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1016	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1221	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1232	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1242	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1248	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1254	UJ	Percent recovery of surrogate DCB was below the lower control limit
FMW-146-122619	1912-256	Groundwater	EPA 8082A	Aroclor 1260	UJ	Percent recovery of surrogate DCB was below the lower control limit
UST-01-line-21.0	2001-349	Soil	EPA 8270E/SIM	2-Methylnaphthalene	J+	Percent recovery of surrogate 2-fluorobiphenyl exceeded the upper control limit
UST-01-line-21.0	2001-349	Soil	EPA 8270E/SIM	1-Methylnaphthalene	J+	Percent recovery of surrogate 2-fluorobiphenyl exceeded the upper control limit
H4-ESW-20.0	2002-032	Soil	NWTPH-Gx	Gasoline	UJ	Sample analyzed outside of holding time
H4-ESW2-20.0	2002-032	Soil	NWTPH-Gx	Gasoline	UJ	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Benzo[a]anthracene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Chrysene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Benzo[b]fluoranthene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Benzo(j,k)fluoranthene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Benzo[a]pyrene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Indeno(1,2,3-c,d)pyrene	J	Sample analyzed outside of holding time
N2-B-20.0	2002-069	Soil	EPA 8270E/SIM	Dibenz[a,h]anthracene	J	Sample analyzed outside of holding time
I3-B-15.0	2002-223	Soil	NWTPH-Gx	Gasoline	UJ	Sample received outside of Method 5035A preservation holding time
N2-B-15.0	2002-223	Soil	NWTPH-Gx	Gasoline	UJ	Sample received outside of Method 5035A preservation holding time
N2-B-10.0	2002-223	Soil	NWTPH-Gx	Gasoline	UJ	Sample received outside of Method 5035A preservation holding time

## Table 2 Summary of Qualified Data Block 38 Seattle, Washington Farallon PN: 397-019

Sample Identification	SDG	Matrix	Method	Analyte	Qualifier	Reason
I3-B-20.0	2002-223	Soil	NWTPH-Gx	Gasoline	UJ	Sample received outside of Method 5035A preservation holding time
I3-B-20.0	2002-223	Soil	EPA 8021B	Benzene	UJ	Sample received outside of Method 5035A preservation holding time
I3-B-20.0	2002-223	Soil	EPA 8021B	Toluene	UJ	Sample received outside of Method 5035A preservation holding time
I3-B-20.0	2002-223	Soil	EPA 8021B	Ethyl Benzene	UJ	Sample received outside of Method 5035A preservation holding time
I3-B-20.0	2002-223	Soil	EPA 8021B	m,p-Xylene	UJ	Sample received outside of Method 5035A preservation holding time
I3-B-20.0	2002-223	Soil	EPA 8021B	o-Xylene	UJ	Sample received outside of Method 5035A preservation holding time

NOTES:

DCB = decachlorobiphenyl

EPA = U.S. Environmental Protection Agency

J = result is an estimate

J+ = result is an estimate with a high bias J- = result is an estimate with a low bias

RPD = relative percent difference

SDG = sample delivery group

UJ = analyte not detected exceeding the laboratory reporting limit and reporting limit is an estimate

# Table 3FMW-134 Sample and Field Duplicate Precision Summary<br/>Block 38Block 38Seattle, Washington<br/>Farallon PN: 397-019

			0	Driginal Samp	ole	D	uplicate Sam	ole			
				FMW-134			FMW-134			Absolute	
			F	FMW134-122818		FMW500-122818				Difference when	
			12/28/2018		12/28/2018			RPD	Results are less	RPD	
Analytical Method	Analyte	Unit	Result	Detect	PQL	Result	Detect	PQL	(percent)	than 5x PQL	Criteria Met
NWTPH-Dx	Diesel-Range Organics	mg/l	0.56		0.26	0.68		0.26		0.12	Yes
NWTPH-Dx	Oil-Range Organics	mg/l	0.41	U	0.41	0.49		0.41		0.08	Yes
NWTPH-GX	Gasoline-Range Organics	μg/l	100	U	100	100	U	100			ND
EPA 8260C	1,1,1,2-Tetrachloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1,1-Trichloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1,2,2-Tetrachloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1,2-Trichloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1-Dichloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1-Dichloroethene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,1-Dichloropropene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2,3-Trichlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2,3-Trichloropropane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2,4-Trichlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2-Dibromo-3-chloropropane	μg/l	1	U	1	1	U	1			ND
EPA 8260C	1,2-Dibromoethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2-Dichlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2-Dichloroethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,2-Dichloropropane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,3-Dichlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,3-Dichloropropane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	1,4-Dichlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	2,2-Dichloropropane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	2-Chloroethyl Vinyl Ether	μg/l	1	U	1	1	U	1			ND
EPA 8260C	2-Chlorotoluene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	4-Chlorotoluene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Benzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Bromobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Bromochloromethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Bromodichloromethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Bromoform	μg/l	1	U	1	1	U	1			ND
EPA 8260C	Bromomethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Carbon Tetrachloride	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Chlorobenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND

# Table 3FMW-134 Sample and Field Duplicate Precision Summary<br/>Block 38Block 38Seattle, Washington<br/>Farallon PN: 397-019

			0	Driginal Samp	ole	D	uplicate Samp	ole			
				FMW-134			FMW-134		1	Absolute	
			F	MW134-1228	18	FMW500-122818				Difference when	
			12/28/2018		12/28/2018			RPD	Results are less	RPD	
<b>Analytical Method</b>	Analyte	Unit	Result	Detect	PQL	Result	Detect	PQL	(percent)	than 5x PQL	Criteria Met
EPA 8260C	Chloroethane	μg/l	1	U	1	1	U	1			ND
EPA 8260C	Chloroform	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Chloromethane	μg/l	1	U	1	1	U	1			ND
EPA 8260C	cis-1,2-Dichloroethene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	cis-1,3-Dichloropropene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Dibromochloromethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Dibromomethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Dichlorodifluoromethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Ethylbenzene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Hexachlorobutadiene	μg/l	1	U	1	1	U	1			ND
EPA 8260C	Iodomethane	μg/l	1	U	1	1	U	1			ND
EPA 8260C	m,p-Xylene	μg/l	0.4	U	0.4	0.4	U	0.4			ND
EPA 8260C	Methylene Chloride	μg/l	1	U	1	1	U	1			ND
EPA 8260C	o-Xylene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Tetrachloroethene (PCE)	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Toluene	μg/l	1	U	1	1	U	1			ND
EPA 8260C	trans-1,2-Dichloroethene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	trans-1,3-Dichloropropene	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Trichloroethene (TCE)	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Trichlorofluoromethane	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8260C	Vinyl Chloride	μg/l	0.2	U	0.2	0.2	U	0.2			ND
EPA 8270D/SIM	1-Methylnaphthalene	μg/l	0.67		0.11	1.7		0.1	86.9		No
EPA 8270D/SIM	2-Methylnaphthalene	μg/l	0.77		0.11	2.3		0.1	99.7		No
EPA 8270D/SIM	Acenaphthene	μg/l	0.71		0.11	1.6		0.1	77.1		No
EPA 8270D/SIM	Acenaphthylene	μg/l	0.11	U	0.11	0.1	U	0.1			ND
EPA 8270D/SIM	Anthracene	μg/l	0.11	U	0.11	0.1	U	0.1			ND
EPA 8270D/SIM	Benzo(a)Anthracene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Benzo(a)Pyrene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Benzo(b)Fluoranthene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Benzo(g,h,i)Perylene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Benzo(j,k)Fluoranthene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Chrysene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Dibenzo(a,h)Anthracene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Fluoranthene	µg/l	0.11	U	0.11	0.1	U	0.1			ND

# Table 3FMW-134 Sample and Field Duplicate Precision Summary<br/>Block 38Block 38Seattle, WashingtonFarallon PN: 397-019

				Original Sample FMW-134 FMW134-122818		Duplicate Sample FMW-134 FMW500-122818				Absolute Difference when	
				12/28/2018		12/28/2018		RPD	<b>Results are less</b>	RPD	
<b>Analytical Method</b>	Analyte	Unit	Result	Detect	PQL	Result	Detect	PQL	(percent)	than 5x PQL	Criteria Met
EPA 8270D/SIM	Fluorene	μg/l	0.11	U	0.11	0.15		0.1		0.04	Yes
EPA 8270D/SIM	Indeno(1,2,3-cd)Pyrene	μg/l	0.011	U	0.011	0.01	U	0.01			ND
EPA 8270D/SIM	Naphthalene	μg/l	23		1.1	62		2.1	91.8		No
EPA 8270D/SIM	Phenanthrene	μg/l	0.11	U	0.11	0.1	U	0.1			ND
EPA 8270D/SIM	Pyrene	µg/l	0.11	U	0.11	0.1	U	0.1			ND

NOTES:

mg/l = milligrams per liter

 $\mu g/l = micrograms per liter$ 

ND = analyte not detected in both original sample and field duplicate

PQL = practical quantitation limit

RPD = relative percent difference

U = analyte not detected at or exceeding the laboratory practical quantitation limit

# APPENDIX G UST01 AND UST 02 DECOMMISSIONING RECORDS

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

# **Construction Group International, LLC**

19407 144th Avenue NE. Building D



Environmental \* Demolition \* Waterproofing \* Coatings

Washington License #CONSTIGI953NA

Woodinville,	NA 98072							
(425)487-2618	* (425)487-2619		2				Billing	
Customer:	/ulcan			Date: 3/3/20	)20			
Attn: F	Raymond Burdick			Project Nam		38 Developme	ent UST Rem	oval, Seattle
	505 -5th Ave S, Suite 900, Seattle, Wa 98104		e	Job #:	U20065			
2 <del>.</del>	206-342-2451			P.O.#	10120-000	A A		
					10120-000	44		
Fax: 2	206-342-3000			Other #:	<u></u>			
	200-gal & 2500-gal bunker oil tanks, approximately1 ampling, and reporting to regulatory agencies (DOE)			ai Contractor	on site to pr	UNICE EXCAVAIO	n iut lank ten	iovai.
	Item or Function	Qty	Rate	Labor	Material	Equipment	Disposal	Total
Mobilization	Item or Function	Qty 2	Rate 500	Labor 1,000.00	Material	Equipment	Disposal	
UST Labor - Lic	censed Decommissioner				Material	Equipment	Disposal	<b>Total</b> \$1,000.00 \$6,250.00
Project Manage	censed Decommissioner	2	500	1,000.00	Material	Equipment	Disposal	\$1,000.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc)	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop	2 50 2 2	500 125 95 600	1,000.00 6,250.00	Material		Disposal	\$1,000.00 \$6,250.00 \$190.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator	2 50 2 2 2 10	500 125 95 600 140	1,000.00 6,250.00		Equipment		\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,200.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal	2 50 2 2 2 10 3600	500 125 95 600 140 0.65	1,000.00 6,250.00	1,200.00		<b>Disposal</b>	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,200.00 \$1,400.00 \$2,340.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit	2 50 2 2 10 3600 2	500 125 95 600 140 0.65 414	1,000.00 6,250.00 190.00				\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis	censed Decommissioner er ovide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert	2 50 2 2 10 3600 2	500 125 95 600 140 0.65 414 1545	1,000.00 6,250.00 190.00 3,090.00	1,200.00	1,400.00		\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis UST Haul Away	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert	2 50 2 2 10 3600 2 2 2 2 2 2	500 125 95 600 140 0.65 414 1545 250	1,000.00 6,250.00 190.00	1,200.00		2,340.00	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis JST Haul Away	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert / on	2 50 2 2 10 3600 2	500 125 95 600 140 0.65 414 1545	1,000.00 6,250.00 190.00 3,090.00	1,200.00	1,400.00		\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00 \$1,390.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis JST Haul Away	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert	2 50 2 2 10 3600 2 2 2 2 2 2	500 125 95 600 140 0.65 414 1545 250	1,000.00 6,250.00 190.00 3,090.00 1,250.00	1,200.00	1,400.00	2,340.00	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00 \$1,390.00 <b>\$19,438.00</b>
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis UST Haul Away Tank Destructio	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert f on TOTALS wotation Response is valid for thirty (30) days. Payn	2 50 2 2 10 3600 2 2 2 2 2 2 2 2	500 125 95 600 140 0.65 414 1545 250 695 75 are	1,000.00 6,250.00 190.00 3,090.00 1,250.00	1,200.00 828.00	1,400.00 500.00	2,340.00 1,390.00 \$19,4	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00 \$1,390.00 \$1,390.00 \$19,438.00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis UST Haul Away Tank Destruction	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert / on TOTALS uotation Response is valid for thirty (30) days. Payn ays from date of invoice, with interest accruing at 1.5	2 50 2 10 3600 2 2 2 2 2 2 2 2 2 5% per m	500 125 95 600 140 0.65 414 1545 250 695 ms are nonth on	1,000.00 6,250.00 190.00 3,090.00 1,250.00	1,200.00 828.00 Total Cost	1,400.00 500.00	2,340.00 1,390.00 \$ <b>19,4</b> \$0.	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00 \$1,390.00 \$19,438.00 38.00 .00
UST Labor - Lic Project Manage Excavator - Pro Small tools (fire saw, etc) Tank Pump and Wash Water Di Seattle Fire De Marine Chemis UST Haul Away Tank Destruction	censed Decommissioner er wide by GC on site. e extinguisher, no smoking signs, visqueen, chop d Rinse, Vac Truck & Operator sposal pt Permit t, Gas Tank Inert f on TOTALS wotation Response is valid for thirty (30) days. Payn	2 50 2 10 3600 2 2 2 2 2 2 2 2 2 5% per m	500 125 95 600 140 0.65 414 1545 250 695 ms are nonth on	1,000.00 6,250.00 190.00 3,090.00 1,250.00 0verhea Sal	1,200.00 828.00	1,400.00 500.00 t ncluded	2,340.00 1,390.00 \$19,4 \$0, \$1,90	\$1,000.00 \$6,250.00 \$190.00 \$1,200.00 \$1,400.00 \$2,340.00 \$828.00 \$3,090.00 \$1,750.00 \$1,390.00 \$1,390.00 \$19,438.00

Mark A. Marcell

Mark A. Marcell - Construction Group International, LLC

**Authorized Signature** 

Mark A. Marcell - President Printed Name and Title

**Printed Name and Title** 

Date

#### George D. Blair - Northwest Marine Chemist, Inc. P.O. Box 7084, Tacoma, WA 98417 Office: 253-752-0149 Fax: Email: gbcmc637@gmail.com

# MARINE CHEMIST CERTIFICATE

Serial

637-01078 Page 1 of 1

ECI Survey Requested by			GLY/C	GI Owner Agent	Jan 27, 2020
Tank Farm Vessel HFO as Fuel Last Three 3 Loadings			Underg Type of O <sub>2</sub> , LEL	round Storage Tank Vessel , Visual, VOC erformed	Date 500 N. Westlake Specific Location of Vessel 10:46 Time Survey Completed
Inspected Spaces: Group 1. 1-1800 Gal. UST				SAFE FOR LIMITEI LIMITATIONS: Specific Location Hot Work Type: any flammable resig	s: FE FOR WORKERS D HOT WORK
Test Results Inspected spaces group 1	<u>% 02</u> 20.8%	<u>% LEL</u> <1%	VOC < 1 ppm		
Limits of Detection					

0.1 ppm VOC

1.00

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is volded; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

CUALIFICATIONS: Transfer of ballast, cargo, fuel or manipulation of valves or closure equipment tending to after conditions in pipelines, tanks, or compartment subject to gas accumulation, unless specifically approved an INIT Certificate, requires inspection and a new Certificate for spaces so effected. All lines, vents, heating colis, valves, and similar enclosed appurtnances shall be considered "intersection and a new Certificate for spaces so effected. All lines, vents, heating colis, valves, and similar enclosed appurtnances shall be considered "intersection and a new Certificate for spaces for an 20 and 10 and 1

NOT SAFE FOR WORKERS in the compartment or space so designated, entry shall not be permitted. EVITER WITH RESTRICTIONS: in the compartment or space so designated, entry for work is permitted dony if conditions of proper protective equipment, or clothing, or time, or all of the storementioned, as SAFE FOR HOT WORK: In the compartment or space so designated, entry for work is permitted dony if conditions of proper protective equipment, or clothing, or time, or all of the storementioned, as SAFE FOR HOT WORK: In the compartment or space so designated () the novigen contraint of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the indigence of the storementiation of the new explosive limit; (c) the residues; scale, or preservice coatings are cleaned sufficiently bereast the spread of its and are not be capable of producing a coatings to prevent the spread of itsr; or they are intered. Ship's tell tanks, the tanks, or engine room of the room billego. or other machinery spaces, are treated in accordance with the Marine Chemistr's and the nature or type of hour work shall imments for Safe for Hot Work; and Hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work; in the compartment or space so designated (), or to not be space file coations; (c) portions of the space shall meet the requirements for Safe for Hot Work; as applicable, or (b) the space is and the nature or type of thour work shall be fully informed to space is the forearistic is a space shall meet the requirements for Safe for Hot Work; as applicable, not Work; as applicable; NOT SAFE FOR HOT WORK: In the compartment or space so designated (hot is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the

"The undersigned acknowledges receipt of this Cartificate under NFPA 306 and understands conditions and limitations under which it was issued, and the requirements for maintaining its validity."

ECI Company

Jan 27, 2020 Date

This. Certificate is based on conditions existing at the time the impection harsin set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Marine Chemist

637 CMC No.

Authorized Representative



Practical Environmental Compliance Solutions

Offices In: Anchorage | Tacoma | Porland

January 27, 2020 ECI Project No.: 0520-26

# **Underground Storage Tank Decommissioning Certification**

This is a statement of Underground Storage Tank Decommissioning provided by EcoCon, Inc. (ECI). ECI states this decommissioning has occurred under the supervision of an ICC Certified UST Decommissioner following the local and state rules and regulations as defined by the Uniform Fire Code (UFC) and Washington Administrative Code (WAC). Following Northwest Marine Chemist and Seattle Fire Department certification, the UST was excavated and transported off site to be cut up then disposed at a local metal recycling company.

Project Client:	Construction Group International
Project Name:	Block 38 - Bunker Oil UST #1
Project Address:	500 Westlake Ave. N., Seattle, WA
Type of Decommissioning:	Excavation and removal from sub-surface
UST Installation Date:	Unknown (pre 1980)
UST Decommissioning Date:	1/27/2020
Permit Issuance Date:	1/27/2020
UST #:	Tank #1
UST(s) Dimensions:	4.0 x 12 feet (Approximate) – 1 UST
UST(s) Total Gallons:	1200 Gallons (Approximate)
UST(s) Construction:	Steel – Single Wall Construction

Certified UST Decommissioner: Certification Number:

Brad Reilly 8289423 ~ Exp: 2/14/2020

Brad N. Reilly

January 28, 2020

Date

ECI | Environmental Services Phone: (253) 921-7059 | Fax: (253) 369-6228 | brad@alleci.com

File: UST Decommissioning Certification-500 Westlake Ave. N., Seattle-051018

Anchorage | Seattle/Tacoma | Portland

•			
Your Seattle Fire Department	APPLICATION F	OR TEMPORARY	PERMIT
Code 7908 C	ommercial Tank	Removal/Decomr	nissioning
<b>Permit Fee:</b> TO BE COMPLETED BY PERMIT APPI	LICANT Tank		Date Issued: <u>1/23/2020</u> com site on the same day as permit is issued!
BUSINESS NAME: ECI Envi	ronmental		
MAILING ADDRESS: P.O. BO	x 153		SUITE:
CITY: Fox Island		STATE: WA	ZIP: <b>98333</b>
JOBSITE ADDRESS: 500 Wes	stlake Avenue	9	
CONTACT PERSON: Brad Re	illy	PHONE NUMBER:	(206)779-0050
Number of Tank(s):1	Tank Size(s):18	800 gallon	Aboveground tank
Product(s) Previously Contained:	Bunker (	Jil	Underground tank
Removal (Marine Chemist inspe	ction and certificate requ	uired for all tanks regard	lless of size or contents)
Abandonment-in-Place (Marine and/or unknowns)	Chemist certificate requi	ired for tanks previously	containing Class I flammable liquids
Hot work being conducted:	No	Yes (If yes, a separ	rate hot work permit is required)
Permit applications may be submitted in	person weekdays from 8	:00 a.m. to 4:30 p.m., or 1	nailed to:

Seattle Fire DepartmentTo pay with a Visa or Master Card, email this completed application to us,Fire Marshal's Office – Permits**THEN CALL US TO CONFIRM RECEIPT AND MAKE PAYMENT.**220 Third Ave S, 2<sup>nd</sup> FloorTel: (206) 386-1450Seattle, WA 98104-2608E-mail: permits@seattle.gov

Call 206-386-1450, at least 24 hours prior to needed inspection time to arrange for an appointment.

TANKS MAY BE REMOVED/DECOMMISSIONED ONLY AFTER FIRE DEPARTMENT INSPECTION

NO HOT WORK IS ALLOWED ON A TANK SYSTEM PRIOR TO ISSUANCE OF THIS FIRE DEPARTMENT PERMIT!

Permission is hereby granted to remove or decommission the tank(s) identified in this permit in accordance with the attached conditions, all noted special conditions, and all applicable provisions of the Seattle Fire Code, and federal, state UST THIS PERMIT IS NULL AND VOID IF PERMIT CONDITIONS ARE NOT ATTACHED.

I understand the conditions of this permit and will ensure all tank removal/decommissioning operations are conducted accordingly. I acknowledge that I received an inspection by a Seattle Fire Department inspector today.

Brad Reilly

**Print Name** 

	60/
Signature	2

UST Decommissioner

Title

Special permit conditions: Tank removal/decommissioning must be performed, or directly supervised, by an ICC certified individual (WAC 173-360-600)

FMO USE:	APPROVED BY:	
Check No.:	Inspector:	SFD ID#
Receipt No.:	Name of Marine Chemist	Certificate #
Application ID#:	Date:	

# COMMERCIAL TANK REMOVAL/DECOMMISSIONING PERMIT CONDITIONS

- 1. Two (2) portable fire extinguishers each having a minimum rating of 40 BC shall be on site within 50 feet of the operation. Fire extinguishers shall be inspected, approved and certified annually.
- 2. Rope or ribbon barricades located at least 10 feet from the tank shall surround every outdoor storage tank removal or decommissioning operation or the operation shall be enclosed in a fenced yard.
- 3. "No Smoking" signs shall be posted in readily visible locations.

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- 4. No hot work is allowed on a tank system prior to issuance of this permit and the tank is certified "Safe for Hot Work" by a Certified Marine Chemist. Hot work means any activities involving riveting, welding, burning, brazing, soldering, heating, chopping, grinding, ripping, drilling, cutting with a chop saw or "Sawzall", abrasive blasting, use of powder-actuated tools or similar spark-producing operations, crushing or mechanically shearing to facilitate opening for cleaning, disposal, scrapping for recycling purposes.
- 5. A separate temporary Seattle Fire Department permit (Code 4913) or a validation number assigned in conjunction with an annual hot work permit (Code 4911 or 4912) is required prior to any hot work operations.
- 6. Permits may cover multiple tanks located at the same address. If additional tanks are to be removed or abandoned at later dates, separate permits shall be obtained. Each address location requires a separate permit application regardless of whether multiple address locations are physically next to one another.
- 7. Additional fees will be charged if inspectors are required to work other than normal business hours. (Normal business hours are Monday through Friday, 8:00 a.m. to 4:30 p.m.)
- 8. No excavation of an underground tank is permitted prior to inspection by the Seattle Fire Marshal's Office. Exception: Removal of the top layer of asphalt or concrete only with no removal of dirt, pea gravel or soil over the underground storage tank. Further excavation may be allowed by a Seattle Fire Department Special Hazards Unit Inspector prior to the initial inspection depending on conditions and if the tank has been inerted by a Marine Chemist who is present on site. The name of the inspector and the time permission was given shall be made available at time of inspection.
- Prior to inspection, to ensure tanks and connected piping are completely free of all flammable or combustible liquids, a receipt
  or certificate must be on site indicating the tanks have been pumped and rinsed by an approved company. Product and rinse
  water must be disposed of in an approved manner.
- 10. For tanks being decommissioned in place that previously contained Class I liquids, a Certified Marine Chemist certificate must be issued and available on site for inspection certifying that the tank has been properly inerted prior to filling.
- 11. No tank shall be filled prior to an inspection by the Seattle Fire Marshal's Office.
- 12. Tanks being decommissioned in place must be filled with a lean concrete mixture. Filling with foam is prohibited.
- 13. A Marine Chemist's certificate verifying the tank has been properly inerted or is otherwise certified "Safe for Hot Work" shall be issued and available on site for inspection for each underground and aboveground tank being removed regardless of the product previously contained.
- 14. If tanks are being removed, the tanks' atmosphere must be inert using one of the following approved methods:
  - Dry ice (pellets or chunks of solid CO<sub>2</sub>). Minimum 40 lbs per 1000 gallons of tank capacity is recommended.
  - Compressed CO<sub>2</sub> gas in cylinders (Note: This method may only be performed by a Certified Marine Chemist).
  - Purging with air (gas-freeing) using Venturi tube apparatus, with proper bonding and grounding and after the tank has been pumped and rinsed by an approved company.
- 15. A maximum reading of less than 6% of oxygen must be obtained prior to the removal of the tanks if CO<sub>2</sub> or another inert gas, as approved by the Marine Chemist, is used to inert the tank or, a reading of 0% LEL must be obtained prior to removal of the tank if the air-purging (Venturi air moving devices) method is used.
- 16. All local, state and federal regulations for confined space entry shall be complied with prior to entering an underground storage tank.
- 17. Tanks with baffles to prevent movement of liquid must be certified gas-freed or inerted by a Certified Marine Chemist or a Petroleum Industry Safety Engineer regularly engaged in that business prior to removal.
- 18. Tanks being removed must be removed from the site and relocated to a remote, approved facility on the same day that the permit is issued.
- 19. During the hot work operations, digging, excavating, hauling or transport of petroleum storage tanks that have not been cleaned and gas-freed, tanks must be inerted to less than 6% oxygen. All openings are to be cap closed and secured except for one 1/8" hole drilled through a cap. These tanks are to be sprayed painted with "INERTED, DO NOT ENTER" or "INERTED WITH CO<sub>2</sub>, NOT SAFE FOR WORKERS".

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<u>ب</u> ۲	BILL OF LADING PRODUCT TRANSPORT MANI MARINE VACUUM SERVIC 24 HOUR EMERGENCY PHONE NUMBER ( FAX NUMBER 206-763-8084 TRUCK NUMBER DATE	
TO DESTINATION NAME STREET CITY/STATE QUANTITY 7-1500	Marine Vacuum Service, Inc.       FROM         1516 South Graham Street       SHIPPER         Seattle, WA 98108       STREET         PROPER SHIPPING NAME         UST       for         Jor	Construction Wattake Are D cattle, way UN (PLACARD) NUMBER
	SLUDGE DATE 1/27/22 SHIPPE conel 1/27	B DATE/27/2020

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

George D. Blair - Northwest Marine Chemist, Inc. P.O. Box 7084, Tacoma, WA 98417 Office: 253-752-0149 Fax: Email: gbcmc637@gmail.com

# MARINE CHEMIST CERTIFICATE

Serial

637-01081 Page 1 of 1

Inspected Spaces:	Safaty Dealemations.	
Last Three 5 Loadings	Tests Performed	Time Survey Completed
Last Three 3 Loadings	O <sub>2</sub> , LEL, Visual, VOC	12:50
HFO as Fuel		
Vessel	Type of Vessel	Specific Location of Vessel
M. I		500 N. Westlake
Tank Farm	Underground Storage Tank	
Survey Requested by	Vessel Owner Agent	Date
Survey Requested by		Feb 7, 2020
ECI	GLY/CGI	Eab 7, 2020

Group 1. 12-2,500 Gal. UST

#### Safety Designations: ATMOSPHERE SAFE FOR WORKERS SAFE FOR LIMITED HOT WORK LIMITATIONS:

Specific Location: At job site.

Hot Work Type: This tank has been pressure washed free of any flammable residues, and is safe for excavation and cleaning in place. Tests of residues show no propagated flame when exposed to propane torch. Sparks will not ignite residues.

#### Instructions

\_\_\_\_

Maintain firewatch with charged extinguisher at ready during excavation operations.

Test Results	<u>% 0</u> 2	<u>% LEL</u>	VOC	
Inspected spaces group 1	20.8%	<1%	10 ppm	

#### **Limits of Detection**

0.1 ppm VOC

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is volded; spaces not listed on the Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1915; or If In any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of belast, cargo, fuel or manipulation of valves or closure equipment tending to after conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically otherwise specifically designated. Movement of the vessel from its specific location voide the Certificate index antifing of the vessel within the facility has been specifically designated. Movement of the vessel from its specific location voide the Certificate index antifing of the vessel within the facility has been specifically designated. Movement of the vessel from its specifically 306, Subsections 4.3.1 through 4.3). Introduced and the facility has been specifically designated. Movement of the vessel from its specifically 306, Subsections 4.3.1 through 4.3). Introduced and the facility has been specifically under state of the facility has been specifically and the specifically designated. Movement or space to designated (a) the oxygen content of the strangehees shall be at least 19.5 percent and not greater than 22 percent by volume; (b) the compariment or space so designated, entry shall not be permitted. EXTERN WITH RESTRUCTIONS: In the compartment or space so designated, entry shall not be permitted. EXTERN WITH RESTRUCTIONS: In the compartment or space so designated, entry shall not be permitted. EXTERN WITH RESTRUCTIONS: In the compartment or space so designated, entry shall not be permitted. SAFE FOR HOT WORK: In the compartment or space so designated, entry shall not be permitted only if conditions of proper protective equipment, be aread of the and not designated has not be invested in the time estimate and not designated be and and not designated for and and not be specifically updated on the specifically updated on

Compariso prevent the spread to line, or usey are invited. Comp atomics, how which, how cannot be space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is SAFE FOR LIMITED HOT WORK. In the compartment or space so designated (a) portions of the space meet the requirements Safe for Hot Work and Partial Cleaning, as applicable, or (b) the space is and the nature or type of hot work shall be limited or restricted. NOT SAFE FOR HOT WORK. In the compartment or space so designated, hot is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

nowledges receipt of this Certificate under NFPA 306 and understands conditions and imitations and, and the requirements for maintaining its validity."

Authorized Representative

ECI Company

Feb 7, 2020 Date

Signed Marine Chemist

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

637 CMC No.



1.

Practical Environmental Compliance Solutions

Officestn: Anchorage | Tacoma | Porland

February 10, 2020 ECI Project No.: 0520-26-02

# **Underground Storage Tank Decommissioning Certification**

This is a statement of Underground Storage Tank Decommissioning provided by EcoCon, Inc. (ECI). ECI states this decommissioning has occurred under the supervision of an ICC Certified UST Decommissioner following the local and state rules and regulations as defined by the Uniform Fire Code (UFC) and Washington Administrative Code (WAC). Following Northwest Marine Chemist and Seattle Fire Department certification, the UST was excavated and transported off site to be cut up then disposed at a local metal recycling company.

Construction Group International
Block 38 - Bunker Oil UST #2
500 Westlake Ave. N., Seattle, WA
Excavation and removal from sub-surface
Unknown (pre 1980)
2/07/2020
2/07/2020
Tank #1
5.0 x 16 feet (Approximate) – 1 UST
2500 Gallons (Approximate)
Steel – Single Wall Construction

Certified UST Decommissioner: Certification Number:

Brad Reilly 8289423 – Exp: 2/14/2020

Brad N. Reilly

February 10, 2020

Date

File: UST Decommissioning Certification-500 Westlake Ave. N., Seattle-02032020

Your	
Seattle	
<b>Fire D</b>	epartment



# **APPLICATION FOR TEMPORARY PERMIT**

Code 7908 C	ommercial Tank <b>F</b>	Removal/Decommi	ssioning
Permit Fee: TO BE COMPLETED BY PERMIT APP	LICANT Tank	(s) must be removed from	Date Issued: <u>02/06/2020</u> a site on the same day as permit is issued!
BUSINESS NAME: ECI Envi			× +
MAILING ADDRESS: P.O. BO	x 153		SUITE:
CITY: Fox Island		STATE: WA	ZIP: 98333
JOBSITE ADDRESS: 500 Wes	stlake Avenue		
CONTACT PERSON: Brad Re	illy	PHONE NUMBER: (	206 ) 779-0050
Number of Tank(s):1			Aboveground tank
Product(s) Previously Contained: _	Bunker (	Dil 📃	Underground tank
Removal (Marine Chemist insp	ection and certificate requ	nired for all tanks regardles	ss of size or contents)
Abandonment-in-Place (Marine and/or unknowns)	Chemist certificate requi	red for tanks previously co	ontaining Class I flammable liquids
Hot work being conducted:	🔳 No	☐ Yes (If yes, a separat	e hot work permit is required)
Permit applications may be submitted i	in person weekdays from 8:	:00 a.m. to 4:30 p.m., or ma	iled to:
Seattle Fire Department Fire Marshal's Office – Permits 220 Third Ave S, 2 <sup>nd</sup> Floor Seattle, WA 98104-2608		CONFIRM RECEIPT AND MA	completed application to us, AKE PAYMENT.
Call 206-386-1450, at lea	ast 24 hours prior to ne	eded inspection time to	o arrange for an appointment.
TANKS MAY BE REMO	OVED/DECOMMISSION	ED ONLY AFTER FIRE	DEPARTMENT INSPECTION
NO HOT WORK IS ALLOWED	ON A TANK SYSTEM P	RIOR TO ISSUANCE OF	THIS FIRE DEPARTMENT PERMIT!
Permission is hereby granted to removall noted special conditions, and all PERMIT IS NULL AND VOID IF P	applicable provisions of the	he Seattle Fire Code, and	t in accordance with the attached conditions, federal, state, and local regulations. THIS
understand the conditions of this per acknowledge that I received an inspec	ermit and will ensure all ta tion by a Seattle Fire Depa	ank removal/decommissio	ning operations are conducted accordingly.
Brad Reilly		1	UST Decommissioner
Print Name	Signature		Title
presial permit conditions: <u>Tank ren</u>	10vai/decommissioning must b	e performed, or directly supervi	sed, by an ICC certified individual (WAC 173-360-600)

pector:	
P.00101.	SFD ID#
me of Marine Chemist	Certificate #
te:	

#### **COMMERCIAL TANK REMOVAL/DECOMMISSIONING PERMIT CONDITIONS**

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	PROE	BILL OF LADING	EST Nº 3092
		ACUUM SERVIC RGENCY PHONE NUMBER (2 FAX NUMBER 206-763-6084 MBERDATE 2-7	06) 752-0240
TO DESTINATION NAME	Marine Vacuum Service, Inc.	FROM SHIPPERCGI	Construction
STREET	1516 South Graham Street Seattle, WA 98108	CITY/STATE Sass	Minker Aver N
QUANTITY	PROPER SHIPPING NAME		
ILKT.	1800 Gal Tank	(Energy)	UN (PLACARD) NUMBER
RECEIVER	SLUDGI DATE		
NOTE: # D		7-20 SHIPPER	DATE

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Harden .....

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Customer warrants that the veste petroleum products being transformed by the above collector do not contain any contactnestes including without limitations, pesticides, chipricated extends at concentrations greater than 1000 PPM, any detectable tends of PCBs, or any other material classified as dengenus or hazarchous waster by 40 CFR Part 351, Subpart C and D (intermenting the Federal Resource Conservation and Recover Act, or by any equivalent state dangerous or hazarchous substance classification programs. Should laboratory less find this waste not or contained with 40 CFR Part 251, customer (generator) agrees to pay for at deposal costs incurred.

# APPENDIX H VAPOR BARRIER SPECIFICATIONS

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

stegoindustries.com

# BACKGROUND

From October 2015 through August 2018, Drago Wrap Vapor Intrusion Barrier was subjected to a series of diffusion and sorption tests to obtain the film's diffusion, partitioning, and permeation characteristics. This testing was designed and overseen by an expert in the permeation of volatile organic compounds (VOCs) at a prominent university. The results of this testing, combined with further modeling and analysis, have been used to empirically determine the attenuation efficacy of Drago Wrap against various hydrocarbons and chlorinated solvents. The purpose of this document is to briefly discuss the theory behind diffusive vapor intrusion (VI); summarize and explain the robust testing protocol utilized; and relay the results of the testing and analysis.

# CHEMICALS TESTED

 $f = -D_g \frac{dc_g}{d_z}$ 

 $S_{gf} = \frac{C_g}{C_f}$ 

 $f = S_{gf} D_g \frac{dc_g}{d_z} = \frac{P_g}{l} \Delta C$ 

Drago Wrap has been tested with regard to permeation of the following chemicals: Trichloroethylene (TCE); Perchloroethylene (PCE); the BTEX family: Benzene, Toluene, Ethylbenzene, Xylene; Dichloromethane; 1,4 Dichlorobenzene; Methyl tert-butyl ether (MTBE) and Naphthalene. This list was chosen based on a survey of the most often found chemicals on brownfield projects.

# THEORY

The practical purpose behind obtaining permeation, diffusion, and partitioning coefficients is to apply them to the equations governing mass flux per Fick's laws during design of VI mitigation systems. The following briefly explains the theory and physics behind Fick's First Law.

The diffusion coefficient, D<sub>g</sub> (units expressed in [m<sup>2</sup>/s]), is the parameter defining the membrane's resistance to the diffusive mass flux [g/m<sup>2</sup>s] transported within the membrane as governed by Fick's First Law:

due to a concentration gradient  $dc_g/d_z [g/m^4]$  in the membrane layer. If the contaminant source is an aqueous solution adjacent to the membrane, the concentration of the contaminant in the membrane can be related to that in the fluid (at equilibrium) by the partitioning coefficient,  $S_{af}$  (where  $S_{af}$  is analogous to a Henry's coefficient). It is given by Equation 2 and depends on the solubility of the contaminant in the material:

where  $c_f$  is the concentration of the contaminant in the fluid, adjacent to and in equilibrium with, the concentration,  $c_{q_r}$ in the membrane.

Thus, the mass flux (f) from the fluid on one side of the membrane to the fluid on the other side (at steady state) is given by:

Stego is involved in the research, design, development, production and distribution of the highest quality construction products in the industry. Stego's technical department scientific principles, and knowledge of current industry expert recommendations, Stego can advise on issues related to utility versus cost in order to assist in creating installation best practices. However, Stego does not employ design professionals. Therefore, Stego cannot interpret ASTM installation standards (E1643) and must defer to the project's assigned design professional on final design decisions. Version 1.3 | Last Update: February 1, 2019 | Created: September 12, 2017

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(Eq. 1)

(Eq. 2)

(Eq. 3)



where *l* is the thickness of the film/membrane, and  $\Delta C$  is the difference in concentration between the two sides of the film/membrane at steady state, and the product of the two parameters (S<sub>gf</sub> D<sub>g</sub>) is called the permeation coefficient, P<sub>g</sub> (m<sup>2</sup>/s):

$$P_g = S_{gf} D_g \tag{Eq. 4}$$

It can be gleaned from Equations 1-4 that the diffusion coefficient,  $D_g$ , is not enough to characterize the film's mass transfer properties for contaminants moving from below the membrane to above it. Diffusive mass transfer through an intact geomembrane is a 3-step process: partitioning into the geomembrane; diffusion through the geomembrane; and partitioning out of the geomembrane. Both  $D_g$  and  $S_{gf}$  (or simply  $P_g$ ) must be known in order to effectively utilize Fick's steady state mass transfer equations. Therefore, to allow for full and complete analysis, Drago Wrap's permeation was fully characterized with all three values (permeation, diffusion, and partitioning coefficients) for each chemical tested. Those values are contained in Table 2. It is also imperative to understand the differences in methodologies between lab and site-specific field-testing setups. If such differences exist, the addition of the phase transition coefficient between water and air, Henry's coefficient (H), may also be required in the analysis. A deeper discussion on accounting for these differences is beyond the scope of this summary. Please contact the Stego Industries' Technical Department for additional assistance.

# **TESTING METHODOLOGY**

Two types of tests and subsequent modeling have been employed in characterizing Drago Wrap's relevant characteristics: diffusion testing, sorption testing, and the finite layer modeling and analysis program, POLLUTE v7 (Rowe and Booker 2004).

The diffusion testing setup used stainless steel double-compartment cells (Figure 1), such that source and receptor volumes were separated by the Drago Wrap membrane. The cell was screwed together, with the membrane secured using two Viton rings (Figure 2) to prevent the loss of contaminant at the connection between each compartment and the membrane. Both the source and receptor were filled with double deionized (DDI) water, and a septum was inserted into the sampling ports to prevent losses. A stock solution of contaminants was added to the source compartment to form a dilute aqueous solution with a known concentration. Before assembly, and after disassembly, the mass of the membrane was recorded.

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<sup>2</sup> 



# DRAGO<sup>®</sup> WRAP VAPOR INTRUSION BARRIER SUMMARY OF PERMEATION AND ATTENUATION TESTING



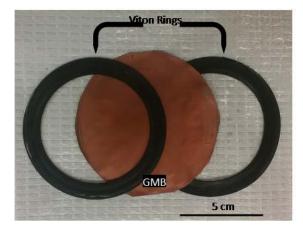


Figure 1: Double Compartment Cell

Figure 2: Membrane and Viton Rings

Sorption testing was also performed to directly measure the partitioning coefficients for each chemical. The sorption testing was conducted using 20-ml vials where a specimen was placed in double deionized water. The mass of the specimen was recorded beforehand. The vials were filled with double deionized water so that there was no airspace in the vial. Known masses of contaminants were added and 50 µl samples were taken daily from the vials for analysis and replaced with double deionized water until equilibrium was reached. The chemical analysis of these specimens was performed in the same manner as chemical analysis of the diffusion tests. This analysis is described in Appendix B.

The results from the diffusion and sorption tests were transduced and analyzed using the finite layer modeling and analysis program, POLLUTE v7, to create the results seen in Table 2.

In addition to whole-film testing, the discrete layers that make up Drago Wrap were tested to determine their respective permeation, diffusion and partitioning coefficients. The results obtained from the mathematical modeling of these tests do not necessarily equate to the values obtained from whole-film permeation testing. In other words, the full membrane benefits from a synergistic effect: the whole is greater than the sum of its parts. Due to its unique design, the testing demonstrated a very important feature to Drago Wrap: its ability to degrade chlorinated solvents like TCE. The results show about a 50-day half-life for TCE when the membrane is installed in its intended orientation. The results in Table 2 come from the most conservative approach to analyzing the results and do not consider these synergies.

# RESULTS

As described earlier, the values displayed in Table 2 result from a conservative approach to the analysis of data generated from several phases and years of testing, and subsequent numerical modeling. The preferred methodology for obtaining accurate results requires an aqueous-to-aqueous testing scenario. Table 2 depicts these results. There exist scenarios where mass flux design with Drago Wrap requires additional consideration of phase-change analysis beyond what is offered in Table 2. Please contact the Stego Industries' Technical Department for assistance should the need arise.

Stego is involved in the research, design, development, production and distribution of the highest quality construction products in the industry. Stego's technical department offers technical advice and additional information regarding the specific properties of all Stego products. Based on the department's experience, understanding of relevant scientific principles, and knowledge of current industry expert recommendations, Stego can advise on issues related to utility versus cost in order to assist in creating installation best practices. However, Stego does not employ design professionals. Therefore, Stego cannot interpret ASTM installation standards (E1643) and must defer to the project's assigned design professional on final design decisions. Version 1.3 | Last Update: February 1, 2019 | Created: September 12, 2017

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## Table 1 – Descriptions of the Tested Chemicals

Chemical	Abbreviation	Family	Use
Benzene	Btex	Aromatic Hydrocarbon	Gasoline byproduct
Toluene	bTex	Aromatic Hydrocarbon	Gasoline byproduct
Ethylbenzene	btEx	Aromatic Hydrocarbon	Gasoline byproduct
M&P-Xylenes	bteX	Aromatic Hydrocarbon	Gasoline byproduct
O-Xylene	bteX	Aromatic Hydrocarbon	Gasoline byproduct
Trichloroethylene	TCE	Chlorinated Hydrocarbon	Dry Cleaning and Solvent
Tetrachloroethylene	PCE	Chlorinated Hydrocarbon	Dry Cleaning and Solvent
Methyl tert-butyl ether	MTBE	Oxygenate	Octane-increasing additive to fuel
Dichloromethane	DCM	Chlorinated Hydrocarbon	Paint Stripper, Decaffeinate, Aerosol propellant
Naphthalene	Naphthalene	Polycyclic Aromatic Hydrocarbon	Fumigant, Pyrotechnics, Wetting Agent
1,4-Dichlorobenzne	1,4-DCB	Chlorinated Hydrocarbon	Pesticide, Disinfectant, Deodorant

## Table 2 – Aqueous Coefficients

Chemical	Diffusion, D <sub>g</sub> [x 10 <sup>-15</sup> m²/s]	Partitioning, S <sub>gf</sub> [-]	Permeation, P <sub>g</sub> [x 10 <sup>-13</sup> m <sup>2</sup> /s]
Benzene	2.6	171	4.5
Toluene	1.5	339	5.1
Ethylbenzene	0.41	764	3.1
M&P-Xylenes	0.4	743	2.9
O-Xylene	0.4	670	2.7
TCE	3.9	251	9.8
PCE	1.1	610	6.6
MTBE	1	1	0.01
DCM	0.95	475	4.5
Naphthalene	0.014	1710	0.25
1,4-DCB	0.94	760	7.1

# CONCLUSION

Drago Wrap has proven to be a superior barrier to standard geomembranes like HDPE (by a factor of about 10 to 200 – See Appendix A) for all contaminants where comparisons could be made to HDPE and has remarkably low values for BTEX, TCE; PCE; MTBE; Naphthalene; DCM; and 1,4 DCB with permeation coefficients of the order of magnitude of  $10^{-13}$  –  $10^{-14}$  m<sup>2</sup>/s. In addition, the testing has shown that chlorinated solvents experience degradation while permeating through the membrane with a half-life of 50 days for TCE when the film is correctly oriented relative to the contaminant source.

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# APPENDIX A - COMPARISON TO HDPE (WHERE AVAILABLE)

	Permeati Dr	on Coeff 20-mil ago Wra			on Coef mil HD	ficients – PE <sup>1</sup>	
	$D_g$	$\mathbf{S}_{\mathrm{gf}}$	$P_{g}$	Dg	$\mathbf{S}_{\mathrm{gf}}$	$P_{g}$	Ratio
	(m <sup>2</sup> /s)	(-)	(m <sup>2</sup> /s)	(m <sup>2</sup> /s)	(-)	(m <sup>2</sup> /s)	$(P_{gDrago}/P_{gHDPE})$
Benzene	2.6x10 <sup>-15</sup>	171	4.5x10 <sup>-13</sup>	3.5x10 <sup>-13</sup>	30	1.05 x10 <sup>-</sup>	23
Toluene	1.5x10 <sup>-15</sup>	339	5.1x10 <sup>-13</sup>	3.0 x10 <sup>-13</sup>	100	3.0 x10 <sup>-11</sup>	60
Ethylbenzene	4.1x10 <sup>-16</sup>	764	3.0x10 <sup>-13</sup>	1.8 x10 <sup>-13</sup>	285	5.1 x10 <sup>-11</sup>	170
m&p-Xylenes	4.0x10 <sup>-16</sup>	743	2.9x10 <sup>-13</sup>	1.7 x10 <sup>-13</sup>	347	5.9 x10 <sup>-11</sup>	200
o-Xylene	4.0x10 <sup>-16</sup>	670	2.7x10 <sup>-13</sup>	1.5 x10 <sup>-13</sup>	240	3.6 x10 <sup>-11</sup>	130
TCE	3.9x10 <sup>-15</sup>	251	9.8x10 <sup>-13</sup>	4.0 x10 <sup>-13</sup>	85	3.4 x10 <sup>-11</sup>	35
PCE	1.1x10 <sup>-15</sup>	610	6.6x10 <sup>-13</sup>	-	-	-	-
MTBE	1.0x10 <sup>-15</sup>	1	1.0x10 <sup>-15</sup>	-	-	-	-
DCM	9.5x10 <sup>-16</sup>	475	4.5x10 <sup>-13</sup>	6.5 x10 <sup>-13</sup>	6	3.9 x10 <sup>-12</sup>	9
Naphthalene	1.4x10 <sup>-17</sup>	1710	2.5x10 <sup>-14</sup>	-	-	-	-
1,4-DCB	9.4 x10 <sup>-16</sup>	760	7.1x10 <sup>-13</sup>	-	-	-	-

<sup>1</sup>Sangam & Rowe (2001)

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# **APPENDIX B– CHEMICAL ANALYSIS**

The cells were sampled at regular time intervals. During each sampling event, 10 ul to 100 ul was removed from the cell, and that volume was replaced with DDI water so there was no airspace in the cell.

The samples were added to a vial containing 0.4 ml of methanol, 0.01 ml internal standard, and water was added so the total fluid volume in the vial was 1.6 ml. A Solid Phase Micro Extraction (SPME) fiber was inserted into vial headspace and the volatile compounds sorbed onto the fiber. This fiber was analyzed using gas chromatography (GC), and results compared to a certified laboratory standard calibration curve for the contaminant in question. Two types of detectors were used (depending on the cell in question); namely, a mass selective detector and a flame ionization detector. A quality assurance certified lab standard (from a different source to the calibration standards) was assessed during each sampling event.

All laboratory testing was conducted in a Canadian Association for Laboratory Accreditation (CALA) lab and followed CALA methods. This means that rigorous quality assurance practices were followed during chemical analysis. CALA frequently reviews the methods used and the accreditation is renewed every two years.

# REFERENCES

Rowe, R. K., and Booker, J. R. (2004). "POLLUTE V.7 - 1D Pollutant Migration through a Non-homogenous Soil." GAEA Environmental Engineering Ltd.

Sangam, H. P., and Rowe, R. K. (2001). "Migration of dilute aqueous organic pollutants through HDPE geomembranes." Geotextiles and Geomembranes, 19(6), 329–357.

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Drago Wrap Vapor Intrusion Barrier, and the technologies that underlie this game-changing vapor intrusion protection product, has undergone extensive testing to determine its ability to attenuate VOCs and other relevant material properties. These tests exposed Drago Wrap to a host of deleterious chemicals that may exist at or below a project site, including various petroleum distillates, chlorinated solvents, etc. The results of these tests are positive and telling; they show that Drago Wrap is extremely impermeable to a wide range of chemical vapors and, more importantly for our current considerations, maintains such impermeability over the course of years of exposure to these deleterious compounds.

While the results of such testing speak extensively to Drago Wrap's ability to resist degradation in extreme exposure conditions, we wished to pursue multiple exposure scenarios to further increase the confidence project team members should have in Drago Wrap as a critical component of the vapor intrusion systems they utilize on their projects. The following pages detail these measures. The conclusions indicate that there were no significant changes in mass or volume of Drago Wrap when exposed to direct contact with soils contaminated with benzene, toluene, ethylbenzene, xylene (collectively known as BTEX), trichloroethylene (TCE), perchloroethylene (PCE, or tetrachloroethylene), cis-1,2-dichloroethylene (C-DCE), trans-1,2-dichloroethylene (T-DCE), and sulfates. Additionally, we tested the post-exposure samples to determine their tensile strength (ASTM E882) and permeance to water vapor (F1249), and we observed that Drago Wrap maintains its ability to meet each corresponding performance threshold for high-performance water vapor barriers: for D882, Drago Wrap remains a Class A Vapor Barrier per ASTM E1745; for F1249, Drago Wrap maintains a permeance well below 0.01 perms.

If additional questions remain regarding any aspect of Drago Wrap, please be sure to contact the Stego Technical Department. We are happy to help and look forward to the opportunity to provide an effective and economical solution to your barrier needs.

Regards,

Mulz

Dan Marks CSI CDT LEED Green Associate Technical Director | Stego Industries, LLC O: (949) 325-2035| F: (949) 325-2062 danmarks@stegoindustries.com

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# SETUP

To simulate a hydrocarbon contaminated brownfield site, a senior chemist at a research and testing lab prepared contaminated water to contain 1,000 ppb of each benzene, toluene, ethylbenzene, and xylene (BTEX). Two liters of this mixture were placed in a chamber, 49 cm x 23.5 cm wide by 27 cm tall. ASTM C778 standard 20-30 sand was added to the vessel until it was 5 cm above the original water line. At this level, the sand was damp with no free-standing water. Drago Wrap samples were placed on top of the damp sand, and the entire surface of the membrane were weighted down with sand-filled plastic bags to ensure full contact of the Drago Wrap with the damp sand. The test vessel was covered and sealed. After 30 days of exposure under ambient laboratory conditions (21-25°C), the samples were removed for evaluation.

## Simply stated:

We took relatively large amounts of often-seen hydrocarbons resulting from fuel spills and old service station sites and put them into a water table just 2 inches below a sample of Drago Wrap. This can be considered an extreme situation in that water tables are not typically that close to the slab and vapor barrier membrane. After a 30-day exposure, the mass and volume changes were analyzed, and we subsequently tested the material for its water vapor permeance rating and tensile strength.

# RESULTS

## Mass and Volume

The chemist conducted mass and volume measurements before and after exposure. The following comes directly from her report: "All of the test coupons exhibited slight changes in mass and volume, no matter what their exposure conditions were. Statistical analysis by the two-tailed t-test showed that the changes for the BTEX-exposed coupons were not significantly different from the changes for the control-exposed coupons."

Conclusion: In other words, Drago Wrap mass and volume were not significantly affected by the BTEX exposure.

## Tensile Strength

Samples were sent by the lab to our in-house lab and tested per ASTM E882 in both the machine and transverse directions. After the 30-day extreme BTEX solvent exposure, the results were 50.2 lbf/in and 49.6 lbf/in for machine and transverse directions respectively. These results were not significantly different than the water-exposed control samples (48.7 lbf/in, 48.5 lbf/in) or the unexposed samples (48.5 lbf/in, 46.8 lbf/in). For another point of comparison, consider that to be labeled as Class A per ASTM E1745, new-material tensile need only test at 45 lbf/in.

Conclusion: BTEX exposure has little to no effect on Drago Wrap's physical integrity in below-slab applications.

## Water Vapor Permeance

The testing lab then sent exposed and control samples to our in-house lab where they were subsequently tested per ASTM F1249. The results were very positive. The permeance of the sample exposed to the BTEX solution (0.00733 perms) increased minimally compared to the control (0.00614 perms), both staying well below the threshold of 0.01 perms.

Conclusion: BTEX exposure had minimal effect on Drago Wrap's ability to retard water vapor.

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# SETUP

To simulate a dry-cleaning brownfield site, a senior chemist at a research and testing lab prepared contaminated water to contain 3,600 ppb perchloroethylene (PCE), 12,500 PPB trichloroethylene (TCE), 16,200 PPB CIS-1,2-dichloroethylene (C-DCE), AND 1,700 PPB trans-1,2-dichlorothylene (T-DCE). Two liters of this mixture were placed in a chamber, 49 cm x 23.5 cm wide and 27 cm tall. ASTM C778 standard 20-30 sand was added to the vessel until it was 5 cm above the original water line. At this level, the sand was damp with no free-standing water. Drago Wrap samples were placed on top of the damp sand, and the entire surface of the vapor barrier was weighted down with sand-filled plastic bags to ensure full contact of the Drago Wrap with the damp sand. The test vessel was covered and sealed. After 30 days of exposure under ambient laboratory conditions (21-25°C), the samples were removed for evaluation.

## Simply stated:

We took an actual soils report from an old dry cleaning site and recreated the conditions, roughly. In the actual scenario the water table was 20 feet below the vapor barrier. In our setup, we created a contaminated water table just 2 *inches* below Drago Wrap. After a 30-day exposure, the mass and volume changes were analyzed, and we subsequently tested the material for its water vapor permeance rating and tensile strength.

# RESULTS

## Mass and Volume

The chemist conducted mass and volume measurements before and after exposure. The following comes directly from her report: "All of the test coupons exhibited slight changes in mass and volume, no matter what their exposure conditions were. Statistical analysis by the two-tailed t-test showed that the changes for the chlorinated solvent-exposed coupons were not significantly different from the changes for the control-exposed coupons."

Conclusion: Drago Wrap's mass and volume were not significantly affected by the chlorinated solvent exposure.

# Tensile Strength

Samples were sent by the lab to our in-house lab and tested per ASTM E882 in both the machine and transverse directions. After the 30-day extreme chlorinated solvent exposure, the results were 51.2 lbf/in and 49.7 lbf/in for machine and transverse directions respectively. These results were not significantly different than the water-exposed control samples (48.7 lbf/in, 48.5 lbf/in) or the unexposed samples (48.5 lbf/in, 46.8 lbf/in). For another point of comparison, consider that to be labeled as Class A per ASTM E1745, new-material tensile need only test at 45 lbf/in.

Conclusion: Chlorinated solvent exposure has little to no effect on Drago Wrap's physical integrity in below-slab applications.

## Water Vapor Permeance

The testing lab then sent exposed and control samples to our in-house lab where they were subsequently tested per ASTM F1249. The results were very positive. The permeance of the sample exposed to the BTEX solution (0.00713 perms) increased minimally compared to the control (0.00614 perms), both staying well below the threshold of 0.01 perms.

Conclusion: Chlorinated solvent exposure had minimal effect on Drago Wrap's ability to retard water vapor.

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# SETUP

To simulate the worst possible sulfate exposure, a senior chemist at a research and testing lab prepared water contaminated with 10,000 PPM of SO4 (sulfate.) This sulfate concentration was chosen because it was rated as "very severe" (the highest or worst classification) by UC Berkeley professors conducting research for the Caltrans Long Life Pavement Rehabilitation Strategy (LLPRS) Program. The Chemist took this worst-case scenario concentration and soaked samples of Drago Wrap in it for 28 days. Upon removal, the samples were analyzed for changes in mass and volume, and subsequently the exposed product was tested to determine its tensile strength and water vapor permeance rate.

# RESULTS

## Mass & Volume

The chemist conducted mass and volume measurements before and after exposure. The following comes directly from her report: "All of the test coupons exhibited slight changes in mass and volume, no matter what their exposure conditions were. Statistical analysis by the two-tailed t-test showed that the changes for the sulfate-exposed coupons were not significantly different from the changes for the control-exposed coupons."

Conclusion: In other words, Drago Wrap's mass and volume were not significantly affected by the sulfate exposure.

## <u>Tensile</u>

Samples were sent by the lab to our in-house lab and tested per ASTM E882 in both the machine and transverse directions. After the 28-day extreme sulfate exposure, the results were 49.6 lbf/in and 52.3 lbf/in for machine and transverse directions respectively. These results were not significantly different than the water-exposed control samples (48.7 lbf/in, 50.8 lbf/in) or the unexposed samples (48.5 lbf/in, 46.8 lbf/in). For another point of comparison, consider that to be labeled as Class A per ASTM E1745, new-material tensile need only test at 45 lbf/in.

Conclusion: Sulfate exposure has little to no effect on Drago Wrap's physical integrity in below-slab applications.

## Water Vapor Permeance

The testing lab then sent exposed and control samples to our in-house lab where they were subsequently tested per ASTM F1249. The results were very positive. The permeance of the sample exposed to the sulfate solution (0.00734 perms) increased minimally compared to the control (0.00698 perms), both staying well below the threshold of 0.01 perms.

Conclusion: Sulfate exposure had no significant effect on Drago Wrap's ability to retard water vapor.

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# DRAGO<sup>®</sup> WRAP VAPOR INTRUSION BARRIER

A STEGO TECHNOLOGY, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: 2/22/2019

# 1. PRODUCT NAME

DRAGO WRAP VAPOR INTRUSION BARRIER

## 2. MANUFACTURER

c/o Stego® Industries, LLC\* 216 Avenida Fabricante, Suite 101 San Clemente, CA 92672 Sales, Technical Assistance Ph: (877) 464-7834 Fx: (949) 257-4113 www.stegoindustries.com



# 3. PRODUCT DESCRIPTION

USES: Drago Wrap is specifically engineered to attenuate volatile organic compounds (VOCs) and serve as a below-slab moisture vapor barrier.

COMPOSITION: Drago Wrap is a multi-layered plastic extrusion that combines uniquely designed materials with only high grade, prime, virgin resins.

ENVIRONMENTAL FACTORS: Drago Wrap can be used in systems for the control of various VOCs including hydrocarbons, chlorinated solvents, radon, methane, soil poisons, and sulfates.

# .) TECHNICAL DATA

## TABLE 4.1: PHYSICAL PROPERTIES OF DRAGO WRAP VAPOR INTRUSION BARRIER

PROPERTY	TEST	RESULTS
Under Slab Vapor Retarders	ASTM E1745 – Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	ASTM E1745 Compliant
Water Vapor Permeance	ASTM F1249 – Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0069 perms
Push-Through Puncture	ASTM D4833 – Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products	183.9 Newtons
Tensile Strength	ASTM D882 – Test Method for Tensile Properties of Thin Plastic Sheeting	53.5 lbf/in
Permeance After Conditioning (ASTM E1745 Sections 7.1.2 - 7.1.5)	ASTM E154 Section 8, F1249 – Permeance after wetting, drying, and soaking ASTM E154 Section 11, F1249 – Permeance after heat conditioning ASTM E154 Section 12, F1249 – Permeance after low temperature conditioning ASTM E154 Section 13, F1249 – Permeance after soil organism exposure	0.0073 perms 0.0070 perms 0.0062 perms 0.0081 perms
Hydrocarbon Attenuation Factors	Contact Stego Industries' Technical Department	
Chlorinated Solvent Attenuation Factors	Contact Stego Industries' Technical Department	
Methane Transmission Rate	ASTM D1434 – Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting	7.0 GTR** (mL(STP)/m <sup>2</sup> *day)
Radon Diffusion Coefficient	K124/02/95	9.8 x 10 <sup>-14</sup> m <sup>2</sup> /second
Thickness		20 mil
Roll Dimensions		14' x 105' or 1,470 ft <sup>2</sup>
Roll Weight		150 lb

Note: perm unit = grains/(ft<sup>2</sup>\*hr\*in-Hg) \*\* GTR = Gas Transmission Rate

# DRAGO<sup>®</sup> WRAP VAPOR INTRUSION BARRIER

A STEGO TECHNOLOGY, LLC INNOVATION | VAPOR RETARDERS 07 26 00, 03 30 00 | VERSION: 2/22/2019

# INSTALLATION

UNDER SLAB: Unroll Drago Wrap over a tamped aggregate, sand, or earth base. Overlap all seams a minimum of 12 inches and tape using Drago<sup>®</sup> Tape. All penetrations must be sealed using a combination of Drago Wrap and Drago Accessories.

Review Drago Wrap's complete installation instructions prior to installation.

# AVAILABILITY & COST

Drago Wrap is available nationally through our network of building supply distributors. For current cost information, contact your local Drago distributor or Stego Industries' Sales Representative.

# 7. WARRANTY

Stego Industries, LLC believes to the best of its knowledge, that specifications and recommendations herein are accurate and reliable. However, since site conditions are not within its control, Stego Industries does not guarantee results from the use of the information provided and disclaims all liability from any loss or damage. Stego Technology, LLC does offer a limited warranty on Drago Wrap. Please see www.stegoindustries.com/legal.

# MAINTENANCE

Store Drago Wrap in a dry and temperate area.

# 9. TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting Stego Industries or by visiting the website.

Contact Number: (877) 464-7834 Website: www.stegoindustries.com

# 10. FILING SYSTEMS

• www.stegoindustries.com



#### (877) 464-7834 | www.stegoindustries.com

DATA SHEETS ARE SUBJECT TO CHANGE. FOR MOST CURRENT VERSION, VISIT WWW.STEGOINDUSTRIES.COM

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DRAGO<sup>®</sup> WRAP LIMITED WARRANTY ISSUER: STEGO TE<u>CHNOLOGY, LLC ("Stego Tech")</u>



Applicable Date: January 1, 2018 | Revision Date: October 30, 2018 | Version Number: 2.0

P1 of 3

This Drago Wrap Limited Warranty ("the Warranty") commences on the Effective Date and applies to Drago Wrap Vapor Intrusion Barrier (for the purposes of this Warranty "Drago Wrap").

Stego Tech recommends installation of Drago Wrap per ASTM E1643, its published installation instructions, and in accordance with all site-specific recommendations of the project's design team. Drago Wrap is specifically engineered to be installed in conjunction with its proprietary accessories, including Drago<sup>®</sup> Tape, DragoTack<sup>™</sup> Tape, Drago<sup>®</sup> Sealant, and Drago<sup>®</sup> Sealant Form. Additionally, to avoid puncturing Drago Wrap and comply with ASTM E1643, Stego Tech recommends utilizing the Beast<sup>®</sup> Screed system of vapor barrier-safe accessories.

# WARRANTY TERMS AND CONDITIONS

# **1** DRAGO WRAP WARRANTY

Stego Tech recognizes the most current version of ASTM E1745 (at the time of the material purchase) as the governing standard specification for under-slab vapor retarders. Subject to the limitations set forth below, for the Life of the Building<sup>™</sup> Stego Tech warrants that Drago Wrap:

- (a) meets all of the requirements for its designated ASTM E1745 classification;
- (b) has been tested in accordance with each of the following ASTM test methods:
  - i. ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs
  - ii. ASTM F1249 Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
  - iii. ASTM D1709 Test Methods for Impact Resistance of Plastic Film by Free-Falling Dart Method
  - iv. ASTM D882 Test Method for Tensile Properties of Thin Plastic Sheeting
  - v. ASTM E154 Sections 8, 11, 12, 13 Permeance After Conditioning<sup>1</sup>
  - vi. ASTM D1434 Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting
  - vii. ASTM D4833 Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products
- (c) will be free from Manufacturing Composition Defects;
- (d) eligible for input on project-specific installation best practices by a Stego Tech-authorized representative during the preconstruction phase upon reasonable notice, in-person or remotely; and
- (e) eligible for Site Review by a Stego Tech-authorized representative, in-person or digitally, for input on installation prior to concrete placement upon reasonable notice.
- (f) will meet or exceed its published product literature for a period not less than two (2) years from the Date of Installation.

This Warranty is the sole Warranty given by Stego Tech or its Affiliates as to Drago Wrap. All installations or uses of Drago Wrap automatically activate this Warranty. If you do not wish to be bound by the terms of this Warranty, please return the Drago Wrap for a full Refund. Otherwise, all installations will be presumed to have agreed to the terms herein.

# **2** NOTICE AND CLAIMS

Any Claim pursuant to this Warranty must be Certified and must be made within sixty (60) days of the date discovered or the date it should reasonably have been discovered in order for Stego Tech to evaluate the Claim and replace the Drago Wrap. Claims may be made at any time during the Life of the Building. Such replacement (or at Stego Tech's option, Refund of the verified purchase price) shall be your sole and exclusive remedy for any such Claim.

<sup>1</sup> Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.



DRAGO<sup>®</sup> WRAP LIMITED WARRANTY ISSUER: STEGO TECHNOLOGY, LLC ("Stego Tech")

Applicable Date: January 1, 2018 | Revision Date: October 30, 2018 | Version Number: 2.0

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## WARRANTY AND CONDITIONS TO COVERAGE

This Warranty excludes any defect or damage caused by: (a) faulty or improper installation of the Drago Wrap, including the failure to comply with published specification and installation recommendations in effect at the time of installation; (b) improper use, storage or site conditions (e.g noncompliance with the terms of the Drago Wrap Material Safety Data Sheet); (c) any below-concrete slab or similar activity, and any other maintenance, repair, alteration or new installation to the Building that occurs after the completion of the original installation that impacts the Drago Wrap; (d) damage caused by non-Stego Tech materials; (e) factors beyond the reasonable control of Stego Tech or its Affiliates, including, but not limited to, natural disasters such as lightning, floods, windstorms, seismic disturbances, hurricanes, tornadoes, or impact of foreign objects or other violent storms or casualty; (f) damage resulting from any form of misuse, abuse or negligence; (g) structural defects or failures in the Building to which the Drago Wrap is installed.

Your sole remedy under this Warranty is, at Stego Tech's option: (a) Refund of the purchase price paid; or (b) replacement of so much of the Drago Wrap as Stego Tech deems necessary.

# WARRANTY EXCLUSIONS

Except where prohibited by law, this Warranty and the remedies expressly stated herein are the exclusive warranties and remedies provided to you with respect to the Drago Wrap and supersede any prior, contrary or additional representations, whether oral or written. No representative, distributor, dealer or any other person is authorized to make, or makes any warranty, representation, condition or promise with respect to the Drago Wrap. ALL OTHER WARRANTIES ARE DISCLAIMED AND EXCLUDED – WHETHER EXPRESS, IMPLIED, OR STATUTORY – INCLUDING ANY **WARRANTY OF MERCHANTABILITY**, ANY **WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE**, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.

In no event shall Stego Tech or its Affiliates be liable for any incidental, special, indirect, consequential damages, including but not limited to lost income or loss of use. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or any other legal or equitable theory.

# 5 SEVERANCE

If any provision in this Warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect, and the invalid provision shall be modified or partially enforced to the maximum extent permitted by law to effectuate the purpose of the Warranty.

# DISPUTE RESOLUTION

It is the intention of the parties to use their reasonable best efforts to informally resolve, where possible, any dispute, claim, demand or controversy arising out of the performance of this Warranty by mutual negotiation and cooperation. In the event that the parties are unable to informally resolve a dispute, the Parties agree that such disputes shall be completely and finally settled by submission to arbitration before a single arbitrator under the Judicial Arbitration and Mediation Services (JAMS) Arbitration Rules then in effect. Good faith mediation shall be a condition precedent to initiating arbitration. Unless the parties agree otherwise, the arbitration shall take place in Orange County, California, U.S.A. The award of the arbitrator shall be in writing, shall be final and binding upon the parties, shall not be appealed from or contested in any court and may, in appropriate circumstances, include injunctive relief. Judgment on such award may be entered in any court of appropriate jurisdiction, or application may be made to that court for a judicial acceptance of the award and an order of enforcement, as the party seeking to enforce that award may elect. The prevailing party shall be entitled to recover its attorney fees and costs. This Agreement shall be governed in all respects by the laws of the State of California without regard to the conflict of law provisions thereof. Neither party will consolidate, or seek class treatment for any action unless previously agreed to in writing by all parties.





Applicable Date: January 1, 2018 | Revision Date: October 30, 2018 | Version Number: 2.0

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# DEFINITIONS

*"Affiliates"* means Stego Tech affiliated entities, partners, joint venturers, suppliers, vendors, subcontractors, representatives, and agents.

"*Applicable Date*" means the Limited Warranty applies to material sold on or after January 1, 2018.

"Building" means the building above which Drago Wrap was installed, as verified by Stego Tech.

*"Certified"* means that you have investigated whether a breach of this Warranty occurred and obtained and provided a qualified inspector report confirming evidence exists of such a Defect. Stego Tech reserves the right to independently verify any Claims.

"Claim" means a claim for relief under the Warranty.

"*Date of Installation*" means the date Drago Wrap was installed, as verified by Stego Tech.

"Effective Date" means date of first sale as verified.

*"Life of the Building"* means the duration of which the building originally installed atop of the Drago Wrap is in good and working condition.

*"Manufacturing Composition Defect"* means any condition of the Drago Wrap that does not meet the material's intended design and is disclosed to Stego Tech during the Life of the Building.

*"Refund"* means Stego Tech providing a monetary return in the amount verified to be the cost of the Drago Wrap subject to the Claim.

"*Site Review*" means a review of representative portions of the Drago Wrap installation (digitally or in-person, when possible, and as determined by Stego Tech authorized representative) prior to concrete placement to help ensure compliance with governing installation standard, ASTM E1643, Stego Tech's installation instructions, and/or, if applicable, the design team's recommendations (e.g. contract documents). Site Reviews are not a full site inspection.

*"Stego Tech"* means Stego Technology, LLC, a California limited liability company with its principal place of business located at 216 Avenida Fabricante, #101, San Clemente, California 92672. Stego Industries, LLC is the exclusive representative of Drago Wrap and accessory products, owned by Stego Technology, LLC, a wholly independent company.

"Warranty" means this Drago Wrap Limited Warranty.



Stego Industries, LLC is the exclusive Representative for all products, including Drago® Wrap and accessory products, owned by Stego Technology, LLC, a wholly independent company from Stego Industries, LLC. Drago, the Drago logo, and DragoTack are deemed to be registered and/or protectable trademarks of Stego Technology, LLC. Stego and the stegosaurus logo are deemed to be registered and/or protectable trademarks of Stego Industries, LLC. Life of the Building [LDTB] and the LOTB logo are deemed to be registered and/or protectable trademarks of Stego Industries, LLC. Life of the Building [LDTB] and the LOTB logo are deemed to be registered and/or protectable trademarks of Stego Industries, LLC Life of the Building [LDTB] and the LOTB logo are deemed to be registered and/or protectable trademarks of Stego Industries, LLC Life of the Building Information: www.stegoindustries.com/legal.



# DRAGO<sup>®</sup> WRAP SAFETY DATA SHEET

Revision Date: July 30, 2018 | Date of Issue: June 1, 2017 | Version Number: 2.0

## **SECTION 1: IDENTIFICATION**

Product Identifier Product Name: Drago Wrap

## Intended Use of the Product

Vapor Intrusion Barrier

## Company Name, Address, and Telephone of the Responsible Party

Stego Technology, LLC or C/O Stego<sup>®</sup> Industries, LLC\* 216 Avenida Fabricante #101 San Clemente, CA 92672

# Emergency Telephone Number

Emergency Number: 1 (800) 424-9300 (24 Hrs.) CHEMTREC Main Contact Number: (877) 464-7834

# **SECTION 2: HAZARDS IDENTIFICATION**

Classification: This product is not classified as hazardous in accordance with 29 C.F.R. § 1910.1200.

Signal word: None.

Pictogram(s): None.

Hazard statement(s): None.

Precautionary statement(s): None.

**Hazards not otherwise classified:** Polymer film can burn if exposed to excessive temperatures beyond the normal use of the product.

# **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS Number	% by WT.
Copper	Proprietary*	<10%*

The selections marked with an '\*' are proprietary and considered to be Trade Secrets. This is the reason that they are listed as such, or provided as a range.

## **SECTION 4: FIRST AID MEASURES**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Inhalation:** Not a respirable film. If exposed to fumes from combustion, move subject to fresh air; if breathing is difficult, give oxygen and get medical attention; if victim has stopped breathing, give artificial respiration and get medical attention.

**Eye Contact:** Not a probable route of exposure. If exposed to fumes from overheating or from combustion, move subject to fresh air. Flush with plenty of water; if irritation continues, get medical attention.

**Skin Contact:** No treatment necessary. For thermal burns, cool molten materials with water and get medical attention.

Ingestion: Not a probable route of exposure.





# DRAGO<sup>®</sup> WRAP SAFETY DATA SHEET

## Revision Date: July 30, 2018 | Date of Issue: June 1, 2017 | Version Number: 2.0

## **SECTION 5: FIRE-FIGHTING MEASURES**

**Unusual Hazards:** Polymer film can burn if exposed to excessive temperature beyond the normal use of the product. **Extinguishing Agents:** Use extinguishing media appropriate for surrounding fire: carbon dioxide, foam, dry chemical, and water fog.

**Personal Protective:** Equipment unnecessary unless resin is burned, which is not an intended use of the product. If resin is burning, wear self-contained breathing apparatus (pressure-demand MSHAINIOSH approved or equivalent) and full protective gear.

Note: See Section 10 for hazardous combustion and thermal decomposition information.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** None necessary. **Procedures:** None necessary.

## **SECTION 7: HANDLING AND STORAGE**

Storage Conditions: Cool, dry storage recommended. Indoor storage recommended.

Avoid storing films in areas containing aromatic hydrocarbons, halogenated compounds, chlorinated compounds, oxidative agents, solvents or other known polyethylene solubilizers, prodegradants, as they may impact the product performance and/or service life.

Handling Procedures: Avoid direct sunlight. Avoiding direct UV exposure of product. Avoid contact with incompatible materials.

**Installation Temperature Range:** Below 110°F (ambient). Please also see technical and safety data sheets for accessory products installation/application temperature ranges.

In-Service Temperature Range: Below 85°F (soil and slab temperature, beginning 28 days following slab placement).
 Please also see technical and safety data sheets for accessory products installation/application temperature ranges.
 Exposure to Ultraviolet Radiation/Weather Events: The amount of time between when Stego Wrap is installed and when

concrete is placed or other complete protection from sunlight and weather events is provided should be minimized while not exceeding 7 days.

Please review the remainder of the SDS and this wrap's technical data sheet for storage and additional information. If any of the conditions cited above pose a problem for the typical installation of Drago Wrap, please contact Stego Industries for additional information and solutions.

# **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ingredient	OSHA PEL	ACGIH TWA
Copper	0.1 mg/m <sup>3</sup> (Cu fume)	0.2 mg/m <sup>3</sup> (Cu fume)

**Respiratory Protection:** None required during handling. Local exhaust to remove fumes from heat sealing and hot wire cutting areas of packaging or bag converting for worker comfort.

Eye Protection: None necessary.

Hand Protection: None necessary.

Engineering Controls (Ventilation): Use local exhaust ventilation when routinely heat sealing this product.

Recommended ventilation is with a minimum capture velocity of 100 ft/min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of *Industrial Ventilation: A Manual of Recommended Practice* published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.





# DRAGO<sup>®</sup> WRAP SAFETY DATA SHEET

Revision Date: July 30, 2018 | Date of Issue: June 1, 2017 | Version Number: 2.0

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES Continued...

General Physical Form: Solid plastic film.

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Plastic film
Color:	Copper and Gray
State:	Solid
Odor Characteristics:	None
Odor Threshold:	None
pH:	Not Applicable
Melting Point/Freezing Point:	Not Applicable
Initial Boiling Point and Boiling Point Range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability (solid, gas):	Not Applicable
Upper flammability:	Not Applicable
Lower Flammability:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Relative Density:	Not Applicable
Solubility:	Not Applicable
Partition Coefficient: n-octanol/water:	Not Applicable
Auto ignition-temperature:	Not Applicable
Decomposition temperature:	>325°C (617°F)
Viscosity:	Not Applicable

## **SECTION 10: STABILITY AND REACTIVITY**

**Instability:** This material is considered stable. Thermal decomposition is dependent on time and temperature.

## HAZARDOUS DECOMPOSITION PRODUCTS

Substance	Condition
Hydrocarbons	Combustion by-product
Carbon Monoxide	Combustion by-product
Carbon Dioxide	Combustion by-product
Copper Fume	Combustion by-product

**Hazardous Polymerization:** Product will not undergo hazardous polymerization. Product does not decompose at ambient temperatures.

**Incompatibility:** Lead azide and lead stiphanate commonly used in high explosive detonators react violently with copper. **Reactivity:** Reacts and binds with polar gases such as Hydrogen sulfide ( $H_2S$ ), Ozone ( $0_3$ ), Carbonyl sulfide (COS), Sulfur Dioxide ( $S0_2$ ), Hydrogen chloride (HCI), Formic Acid, Acetic Acid.

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.





## Revision Date: July 30, 2018 | Date of Issue: June 1, 2017 | Version Number: 2.0

## SECTION 11: TOXICOLOGICAL INFORMATION

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Acute Data: No Toxicity data are available for this material.

## PRIMARY ROUTES OF EXPOSURE

Skin Contact:	Only if burned.
Eye Contact:	Only if burned.
Respiratory Contact:	Only if burned.

## ACUTE EFFECTS OF EXPOSURE

**Ingestion:** Not a probable route of exposure.

**Inhalation:** No inhalation risk unless product is heated to point of burning, which in normal applications does not occur. Fumes from combustion are unlikely to be produced during heat shrinking. Local ventilation should be used for comfort. Testing data shows copper/polymer particulate count at approximately 0.007mg/m<sup>3</sup>, which is well below OSHA PEL of 0.1 mg/m<sup>3+</sup>.

**Eye Contact:** No eye exposure risk during all product usage except during heating if plastic is heated to point of combustion, which does not occur during the intended use of the product. Fumes from combustion, which have a low toxicity, may be produced during hot wire cutting or heat sealing. Fumes are unlikely to be produced during heat shrinking when used as directed.

**Skin Contact:** Not irritating when used as directed. Hot polymer created during heat shrinking, wire cutting, or heat sealing, may produce thermal bums.

**Chronic Effects of Exposure:** None known when used as directed.

Carcinogenicity: None known when used as directed.

## **SECTION 12: ECOLOGICAL INFORMATION**

This material is insoluble in water and not expected to present any environmental problems in normal application, however areas containing aromatic hydrocarbons, halogenated compounds, chlorinated compounds, pH extremities, oxidative agents, solvents or other known polyethylene solubilizers, prodegradants, etc. may impact the product performance and/or service life.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Procedure:** Reclaim if feasible. If product can't be reclaimed, no special requirements are necessary; dispose of as ordinary solid waste. Pick up film for good "housekeeping" and to prevent a slipping hazard. Incineration or landfill in compliance with federal, state and local regulations. *Since regulations vary, consult applicable regulations or authorities before disposal.* 

## **SECTION 14: TRANSPORT INFORMATION**

**US DOT Hazard Class:** Not regulated.



STEGO

## DRAGO<sup>®</sup> WRAP SAFETY DATA SHEET

## Revision Date: July 30, 2018 | Date of Issue: June 1, 2017 | Version Number: 2.0

## **SECTION 15: REGULATORY INFORMATION**

**Workplace Classification:** This product is not considered hazardous under the OSHA Hazard Communication Standard (29 C.F.R. § 1910.1200).

**CERCLA Information (40 C.F.R. 302.4):** Because of the form in which copper is contained within the resin, releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

**Waste Classification:** When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40 C.F.R. 261).

## **SECTION 16: OTHER INFORMATION**

## HAZARD RATING

Health: 0 | Flammability: 1 | Reactivity: 0 | Special Hazards: None

Scale: 4 = Extreme | 3 = High | 2 = Moderate | 1 = Slight | 0 = Insignificant

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material, but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Rating are based on internal supplier's guidelines, and they are intended for internal use only.

## ABBREVIATIONS

ACGIH = American Conference of Governmental Industrial Hygienists OSHA = Occupational Safety and Health Administration TLV = Threshold Limit Value PEL = Permissible Exposure Limit TWA = Time Weighted Average STEL = Short-Term Exposure Limit

**Disclaimer:** The information contained herein relates only to the specific material identified. Stego Technology, LLC believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Stego Technology, LLC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

## Please read the product statements for all Drago<sup>®</sup> products by navigating here: http://www.stegoindustries.com/legal



## DRAGO® WRAP VAPOR INTRUSION BARRIER

# INSTALLATION INSTRUCTIONS

Engineered protection to create a *healthy* built environment.

# DRAGO® WRAP VAPOR INTRUSION BARRIER



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**IMPORTANT:** Please read these installation instructions completely, prior to beginning any Drago Wrap installation. The following installation instructions are generally based on ASTM E1643 – *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.* There are specific instructions in this document that go beyond what is stated in ASTM E1643 to take into account vapor intrusion mitigation. If project specifications call for compliance with ASTM E1643, then be sure to review the specific installation sections outlined in the standard along with the techniques referenced in these instructions.

## UNDER-SLAB INSTRUCTIONS:

Drago Wrap has been engineered to be installed over a tamped aggregate, sand, or earth base. It is not typically necessary to have a cushion layer or sand base, as Drago Wrap is tough enough to withstand rugged construction environments.

## NOTE: Drago Wrap must be installed with the gray facing the subgrade.

#### Fig.1: UNDER-SLAB INSTALLATION



Unroll Drago Wrap over the area where the slab is to be placed. Drago Wrap should completely cover the concrete placement area. All joints/seams should be overlapped a minimum of 12 inches and taped using Drago<sup>®</sup> Tape. (Fig. 1). If additional protection is needed, install DragoTack<sup>™</sup> Tape in between the overlapped seam in combination with Drago Tape on top of the seam.

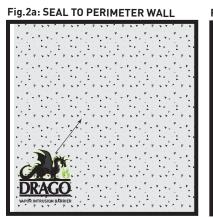
NOTE: The area of adhesion should be free from dust, dirt, moisture, and frost to allow maximum adhesion of the pressure-sensitive tape. Ensure that all seams are taped with applied pressure to allow for maximum and continuous adhesion of the pressure-sensitive Drago Tape. Adhesives should be installed above 40°F. In temperatures below 40°F, take extra care to remove moisture/frost from the area of adhesion.

3. ASTM E1643 requires sealing the perimeter of the slab. Extend vapor retarder over footings and seal to foundation wall or grade beam at an elevation consistent with the top of the slab or terminate at impediments such as waterstops or dowels. Consult the structural and environmental engineer of record before proceeding.

## SEAL TO PERIMETER WALL OR FOOTING WITH DRAGOTACK TAPE: (Fig. 2a and 2b)

- **a**. Make sure area of adhesion is free of dust, dirt, debris, moisture, and frost to allow maximum adhesion.
- **b**. Remove release liner on one side and stick to desired surface.
- When ready to apply Drago Wrap, remove the exposed release liner and press firmly against DragoTack Tape to secure.
- **d**. If a mechanical seal is needed, fasten a termination bar over the top of the Drago Wrap inline with the DragoTack Tape.

NOTE: If sealing to the footing, the footing should receive a hand float finish to allow for maximum adhesion.



### Fig. 2b: SEAL TO FOOTING





In the event that Drago Wrap is damaged during or after installation, repairs must be made. Cut a piece of Drago Wrap to a size and shape that covers any damage by a minimum of 6 inches in all directions. Clean all adhesion areas of dust, dirt, moisture, and frost. Tape down all edges using Drago Tape. (Fig. 3)





**IMPORTANT: ALL PENETRATIONS MUST BE SEALED.** All pipe, ducting, rebar, and block outs should be sealed using Drago Wrap, Drago Tape, and/or Drago<sup>®</sup> Sealant and Drago<sup>®</sup> Sealant Form. (Fig. 4a). Drago accessories should be sealed directly to the penetrations.

### Fig. 4a: PIPE PENETRATION SEALING



#### Fig. 4b: DETAIL PATCH FOR PIPE PENETRATION SEALING



### DETAIL PATCH FOR PIPE PENETRATION SEALING: (Fig. 4b)

- **a.** Install Drago Wrap around pipe penetrations by slitting/cutting material as needed. Try to minimize void space created.
- **b.** If Drago Wrap is close to pipe and void space is minimized, proceed to step d.
- **c.** If void space exists, then
  - i. Cut a detail patch to a size and shape that creates a 6-inch overlap on all edges around the void space at the base of the pipe.
  - ii. Cut an "X" slightly smaller than the size of the pipe diameter in the center of the detail patch and slide tightly over pipe.
  - iii. Tape the edges of the detail patch using Drago Tape.
- d. Seal around the base of the pipe using Drago Tape and/or Drago Sealant and Drago Sealant Form.
  i. If Drago Sealant is used to seal around pipe, make sure Drago Wrap is flush with the base of the penetration prior to pouring Drago Sealant.



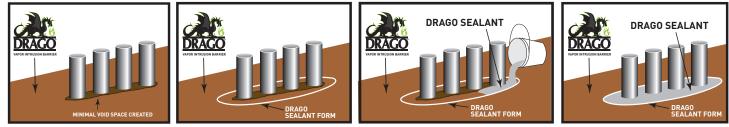
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## **MULTIPLE PIPE PENETRATION SEALING: (Fig. 5)**

## NOTE: Multiple pipe penetrations in close proximity may be most efficiently sealed using Drago Wrap, Drago Sealant, and Drago Sealant Form for ease of installation.

- **a.** Cut a hole in Drago Wrap such that the membrane fits over and around the base of the pipes as closely as possible, ensuring that it is flush with the base of the penetrations.
- **b.** Install Drago Sealant Form continuously around the entire perimeter of the group of penetrations and at least 1 inch beyond the terminating edge of Drago Wrap.
- c. Pour Drago Sealant inside of Drago Sealant Form to create a seal around the penetrations.
- **d.** If the void space between Drago Wrap and the penetrations is not minimized and/or the base course allows for too much drainage of sealant, a second coat of Drago Sealant may need to be poured after the first application has cured.

#### Fig. 5: MULTIPLE PIPE PENETRATION SEALING





## **BEAST® CONCRETE ACCESSORIES - VAPOR BARRIER SAFE**

and lock it down!

Stego Industries\* recommends the use of BEAST vapor barrier-safe concrete accessories, to help eliminate the use of non-permanent penetrations in Drago Wrap installations.



Improve efficiency and maintain concrete

floor levelness with the BEAST SCREED SYSTEM!





BEAST<sup>®</sup> FORM STAKE

*The Stego barrier-safe forming system that prevents punctures in the vapor barrier.* 

IMPORTANT: AN INSTALLATION COMPLETED PER THESE INSTRUCTIONS SHOULD CREATE A MONOLITHIC MEMBRANE BETWEEN ALL INTERIOR INTRUSION PATHWAYS AND VAPOR SOURCES BELOW THE SLAB AS WELL AS AT THE SLAB PERIMETER. THE UNDERLYING SUBBASE SHOULD NOT BE VISIBLE IN ANY AREA WHERE CONCRETE WILL BE PLACED. IF REQUIRED BY THE DESIGN ENGINEER, ADDITIONAL INSTALLATION VALIDATION CAN BE DONE THROUGH SMOKE TESTING.

**NOTE:** While Drago Wrap installation instructions are based on ASTM E1643 - *Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs,* these instructions are meant to be used as a guide, and do not take into account specific job site situations. Consult local building codes and regulations along with the building owner or owner's representative before proceeding. If you have any questions regarding the above-mentioned installation instructions or products, please call us at 877-464-7834 for technical assistance. While Stego Industries' employees and representatives may provide technical assistance regarding the utility of a specific installation practice or Stego product, they are not authorized to make final design decisions.



STEGO INDUSTRIES, LLC • SAN CLEMENTE, CA • 949-257-4100 • 877-464-7834 • www.stegoindustries.com

\*Stego Industries, LLC ("Stego") is the exclusive Representative for Drago Wrap and Pango Wrap. All designated trademarks are the intellectual property of Stego or the entity for which it is acting as a Representative Installation, Warranty, State Approval Information and Disclosure of Representative Status: www.stegoindustries.com/legal. ©2019 Stego Industries, LLC. All rights reserved. 11/2019

Hycrete, Inc.

14 Spielman Road Fairfield, NJ 07004 201.386.8110



#### DATA SHEET

## Hycrete Endure WP

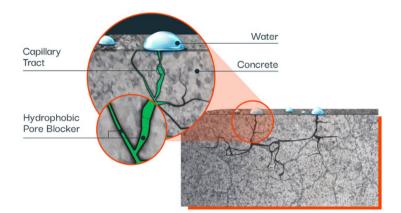
For Maximum Waterproofing Protection in Concrete Mixes

## PRODUCT DESCRIPTION

Hycrete Endure WP (formerly W1000), Hycrete's patented flagship concrete waterproofing admixture, dramatically reduces water ingress through concrete. Ordinary concrete absorbs water and dissolved salts through its network of pores, leading to water infiltration and corrosion of steel reinforcement. Hycrete Endure WP reduces absorption to 1% or lower and forms a protective coating around steel reinforcement. Less water and fewer chlorides are able to penetrate the concrete and the reinforcement has enhanced protection from corrosion. Hycrete Endure WP delivers consistent and reliable performance and is easy to use. Hycrete Endure WP is an environmentally responsible, Cradle to Cradle<sup>™</sup> certified product. Using Hycrete Endure WP allows owners and builders to have the comfort of knowing their investment /project remains secure against one of nature's most damaging elements ...water.

## USES AND APPLICATIONS

- Included in Hycrete360; see separate data sheet for Hycrete360.
- · Extra protection for walls and slabs
- Above and below grade construction
- Water containment reservoirs
- · Sewage and water treatment plants
- Secondary containment structures
- Underground vaults
- Tilt-up panel walls
- Pre-cast components
- · Architectural water features and fountains
- Bridges, dams and highway infrastructure
- Aquatic centers, marinas and zoos
- Swimming pools



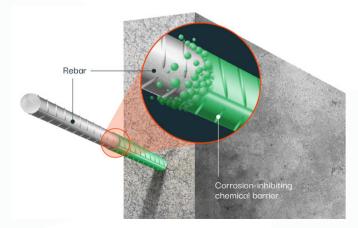
## KEY BENEFITS

- Maximum waterproofing protection in concrete: less than 1% water absorption
- Corrosion protection; protective coating formed around steel reinforcement
- Neutral concrete set time performance, even in high fly ash and GGBS (slag) mixes
- Resists hydrostatic pressure
- Can heal cracks up to 0.4mm
- · Consistent performance and verifiable dosage
- Easy to use; no additional labor required
- · Safe to use

### PRODUCT FEATURES

- Cradle to Cradle<sup>™</sup> certified by MBDC
- NSF/ANSI 61 approved for use in potable water tanks
- Compatible with standard admixture metering equipment
- ISO 14021 compliant recycled content in accordance with Type II environmental labeling; applicable for LEED Materials and Resources Credit

4.1/4.2 - Recycled Content



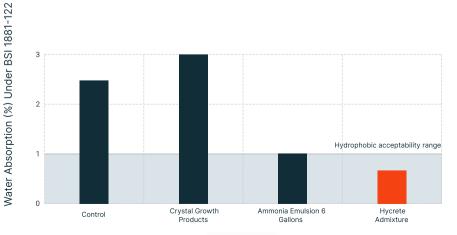


201.386.8110

## **PRODUCT PERFORMANCE\***

Water absorption	BSI 1881-122	Less than 1% absorption		
Permeability/hydrostatic pressure	DIN 1048 BS EN 12390-8	Passes DIN 1048; up to 70% reduction in permeability		
Crack healing	ASTM C597	Concrete with Hycrete fosters faster and 100% complete healing compared to untreated control		
Set time	ASTM C403	Set neutral		
Drying shrinkage	ASTM C157	Neutral to the control		
Slump	ASTM C143	Neutral		
Workability	N/A	Excellent		
Effect on concrete color	N/A	None		
Compressive strength	ASTM C39	Water/cement ratios may need to be lowered to account f possible, minor strength decreases associated with some materials. Perform trial mixes.		
Potable water	NSF/ANSI 61	Approved for use in potable water tanks 50,000 gallons or greater and pipes 84" in diameter and greater		
Adhesion	ASTM C1583, ASTM C1072, ASTM D3359	Neutral; no adverse effect on bond with concrete		

\*All benefits and results are based on actual test results. Results may vary according to concrete mix designs, Hycrete Endure WP dosage, or other factors.



## WATERPROOFING PERFORMANCE

South Carolina independent Lab Testing: 40/60 Structural Mix, 0.40 W/C 611 Type I-II Cement Polycarboxylate Superplasticizer

hycrete.com



14 Spielman Road Fairfield, NJ 07004 201.386.8110

## GENERAL PROPERTIES AND CHARACTERISTICTS

Physical characteristics:		Compatibility:				
Form:	Liquid	Most concrete admixtures				
Specific gravity:	1.05	Most Portland cements or replacements including fly ash and GGBS (	(slag)			
Chloride content:	Nil	Shotcrete mixes and application				
pH:	8.5	Most surface-applied sealants and external membrane protection sys	stems			
-						

#### Recommended dosage:

1.0 U.S. gallon per cubic yard of concrete (5.0 liters per cubic meter)

#### Usage guidelines:

- Superplasticizer at the manufacturer's recommended rate and appropriate for the placement requirements of the project.
  Cementitious Content: The cementitious content of concrete containing Hydrophobic Concrete Admixture will not be less than
- 550 lbs/yd3 (325 kg/m3) with up to 15% fly ash or 50% slag maximum.
- Water-Cement Ratio: 0.42 maximum. Water content of Hydrophobic Concrete Admixture and other admixtures to be included in the water-to cementitious ratio.

#### Packaging:

1 gallon bottles; 5 gallon pails; 55 gallon drums; 275 gallon totes; bulk tanker delivery

#### Storage and handling:

Store above 32°F (0°C) and below 120 °F (48 °C). Slight flocculation can occur over time due to pH reductions. Such flocculation does not affect product performance

#### Notes

- For air-entrained concrete mixes speak to your local Hycrete Rep for proper mix design.
- User should perform trial mixes prior to placement and make necessary adjustments to the mix design as needed.
- If considering dosages other than recommended dosage contact Technical Services before use.

#### Safety

• Hycrete Endure WP (formerly W1000) is a water-based material and should not be swallowed or come into contact with skin or eyes. Wear suitable protective gloves and goggles. If material comes in contact with the skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with sufficient water and seek medical support. If swallowed, seek immediate medical attention. For further information please consult the Material Safety Data Sheet.

#### **Related Documents**

- Hycrete Mixing Instructions
- Hycrete Material Safety Data Sheet Hycrete Endure WP
- For air-entrained concrete mixes speak to your local Hycrete Rep for proper mix design.



Hycrete, Inc.| 14 Spielman Rd | Fairfield, NJ 07004 USA | Phone: (+1) 201.386.8110 | Fax: (+1) 201.386.8155 | www.hycrete.com

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Hycrete warrants that its products are free from manufacturing defects and, when applied in accordance with the current specification and application instructions, will perform as so stated in its product literature.

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1002002-DEC22

## APPENDIX I VAPOR BARRIER INSPECTION SUMMARY

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019



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TO Vulcan LLC C/O Raymond Burdick EMAIL RaymondB@vulcan.com Vulcan LLC 505 5th Avenue South, Suite 900 Seattle, WA 98104 R-20372.000 Block 38 Building Enclosure Consulting

DATE November 23, 2022

### **REGARDING** Completed Action Items

Dear Mr. Burdick,

As requested, RDH Building Science Inc. is pleased to provide you this letter to confirm that all action items noted in our site visit reports (SVRs) have been addressed to the best of our knowledge, based on our observations in the field as well as correspondence with the GLY Construction team.

RDH's scope of work for this project included building enclosure design peer review of drawings and specifications. RDH also reviewed submittals and attended pre-construction meetings as requested, and periodically reviewed representative samples of construction for conformance with project documents. We provide this letter based on the conditions observed at the time and locations of our site visits, consistent with our role as a quality assurance observer of construction progress. Daily quality control during construction of this project was the responsibility of GLY Construction staff.

As is typical in construction, modifications to details and specified materials occurred and are documented through typical construction administration correspondence (RFI, ASI, Change Orders, and SVRs). A copy of our action list report noting that all items requiring action have been resolved is attached. We appreciate the opportunity to continue to be of service to Vulcan, look forward to working with you again in the future.

Yours truly,

Luke Betteridge | EIT Building Science Consultant Ibetteridge@rdh.com T 206-324-2272 RDH Building Science Inc. **Denali Jones** | B.A.Sc., PE (WA) Associate, Senior Project Manager

Encl. - Completed Action Item List

Report has been modified to remove documentation not related to installation of the Vapor Barrier; October 2023.

Page 1

	20372.000 2022 11 23 Completed Action Item List							
tem	Location		Action	Trade	Closed By:	Information Only Or Action Required	Date Closed	Closure Information
.02	Waterproofing Assembly and Installation	Further to SVR Item 1.1, we reviewed the installation of the waterproofing and related components with GLY (Photo 1.2a). Inland is in the process of installing material at the northeast stairwell (GL: H/1-3, H-E/1). We observed the following: 1. Drainage mat is installed directly against the lagging wall down to elevation 20, where the water table is present (Photo 1.2b). Drainage mat sheets are lapped at edges, per Cetco requirements. 2. Drago Wrap vapor barrier membrane is installed against the drainage mat down to elevation 15 with seams heat welded together. We reviewed 10-linear feet of a seem and observed a hole in the vapor barrier between piles W36 and W35 (Photo 1.2c). Inland confirmed they will installed Drago tape over this hole, per manufacturer requirements. 3. Bentonite membrane is installed against the vapor barrier membrane and held in place with staples (Photo 1.2d) Inland confirmed that washer-headed fasteners will be installed at 24-inches O.C., per Cetco requirements. We anticipate reviewing this installation during a subsequent visit Membrane sheets are staggered and shingle lapped, per Cetco requirements We measured membrane edge laps at 4 locations an observed the laps range from 7 to 5-inches, which is over the 4-inch lap Cetco requirement (Photo 1.2e). 4. Whalers are installed at this northwest corner and GLY confirmed that these will be removed prior to placing concrete to allow for the bentonite membrane to be patched. 5. Cement board is installed at against the piles before any drainage mat is installed, to protect all of the membranes when the piles are torched off (Photo 1.2f). The waterproofing installation is in progress, and thus far aligns with that shown in Submittal 071713-002-0.		GLY	GLY Construction Inc.		6/18/2020	GLY provide photograph and confirmation of the completed repair.
.01	Vapor Barrier Installation	grade wall vapor barrier, DragoWrap at the north, west, and east elevations, and under the north slab pour. Inland Confirmed that they have not yet performed their final QC of this area after the iron workers finished the lower	Patch incomplete welds and punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.	GLY	GLY Construction Inc.	Action Required	7/16/2020	GLY provided photographs and documentation of the repairs made.
.02	Vapor Barrier Penetration Detailing	Further to SVR Item 3.1, we reviewed the penetration detailing through the vapor barrier membrane. There are rebar and support angle penetrations through the vapor barrier membrane which are detailed with Drago Mastic (Photos 3.2a-b). We observed various locations where the mastic installation is not consistently installed around the penetrations (Photos 3.2c-d). Inland advised that all penetrations will be reviewed and additional mastic will be installed as needed, to meet manufacturer installation requirements. We also observed ganged conduits that penetrate the vapor barrier at the slab (Photo 3.2e). We anticipate Drago Sealant and Foam to be used to seal this ganged penetration, per manufacturer detailing.	Apply additional mastic where the installation of the mastic is not consistent. Provide confirmation this has been completed and representative photographs of these repairs to RDH.	GLY	GLY Construction Inc.	Action Required	7/16/2020	GLY provided photographs and documentation of the additionally added mastic.

<mark>3.03</mark> )	Vapor Barrier Substrate	Further to SVR Item 3.1, at the above noted location we observed that a pile extends proud of the lagging wall creating a void at the pile to lagging transition behind the vapor barrier membrane. We probed and observed a 45° cant of EPS foam installed at this transition to provide backing, but the foam stops approximately 5-ft from the mud slab, creating a void behind the vapor barrier. GLY advised that spray foam will be installed at this location to provide backing for the vapor barrier through a hole in the membrane that would be patched.	GLY to provide confirmation and representative photographs of the added spray foam at this location to RDH.	GLY	GLY Construction Inc.	Action Required	7/16/2020	GLY provided photographs and documentation of the repairs made.
4.01	Underslab Vapor Barrier	RDH and GLY reviewed the installation of the underslab and below grade wall vapor barrier, DragoWrap at the west and east elevations, and under the south slab pour. Inland confirmed that they have not yet performed their final QC of this area after the iron workers finish the lower rebar mat installation. With reference to ASI 023 and Submittal 071713-002-0 we observed the following (Photo 4.1a): 1. Vapor barrier seams are welded together, and we probed approximately 75-ft of seams at the south end of the under slab vapor barrier (Photo 4.1b). We observed that the seams are consistently welded together. 2. We observed multiple punctures through the membrane which will need to be patched with Drago tape, per manufacturer requirements (Photo 4.1c). 3. Penetrations are detailed with Drago Mastic, per the above noted submittal (Photo 4.1d). We observed that the mastic is evenly applied around the penetrations reviewed. 4. At the tower crane footing, the DragoWrap is terminated at the top and bottom of the footing with a termination bar and Drago Mastic, per RFI 272 (Photo 4.1e).	GLY to patch punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.	GLY	GLY Construction Inc.	Action Required	7/22/2020	GLY provided confirmation and photos of patched Drego wrap with tape.
4.04	-	RDH and GLY reviewed the waterstop installation around the crane footing. No product packaging was on site during the visit, but GLY confirmed that Sika Swellstop is installed, per submittal 033006-001-0. We observed that waterstop is installed in two rows at side of the tower crane footing at the top and the bottom, per RFI 272 (Photo 4.4a). We were only able to access the northeast corner of the footing where we probed the waterstop and observed that it is adhered to the substrate and, where needed, further secured with washer headed fasteners per installation requirements (Photo 4.4b). We also visually observed one location on the south side of the footing where there is a 2-foot break in the waterstop where a section is not adhered (Photo 4.4c). GLY confirmed that this would be repaired.	Provide confirmation and photographs	GLY	GLY Construction Inc.	Action Required	7/22/2020	GLY provided confirmation and photographs of repaired waterstop
5.01	Underslab Vapor Barrier	RDH, GLY, and Inland (installers) reviewed the installation of the underslab vapor barrier, DragoWrap, at the above noted location at the south slab pour. Where the first bar has been laid over the vapor barrier Inland advised they have performed their final QC and where bar has not been laid they still need to perform their final GC. With reference to ASI 023 and Submittal 071713-002 0 we observed the following: We began by reviewing where reinforcement bar has been installed in Inland already performed their QC (GL A-H/11-12) (Photo 5.1a). 1. We probed approximately 25-ft of seams and observed consistent welds (Photo 5.1b). 2. Penetrations are detailed with Drago Mastic, per the above noted submittal (Photo 5.1c). We observed that the mastic is evenly applied around the penetrations reviewed. During the review of the area where the reinforcement bar is not yet placed we observed that the penetrations are detailed consistently with mastic and seams are fully welded, but we observed punctures through the membrane at various locations which will need to be patched with Drago tape, per manufacturer requirements (Photo 5.1d). Inland confirmed this will be completed during their final QC of this area.	GLY to patch punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.	GLY	GLY Construction Inc.	Action Required	9/8/2020	GLY provided photographs and confirmation of the completed repairs.



004 SVR

CLIENT	Vulcan Inc.	PROJECT	20372.000			
VISIT DATE	15 Jul, 2020		Block 38 - Building Enclosure Consulting			
WRITER	Luke Betteridge	REVIEWER	Denali Jones			
то	Sean Biehl (Vulcan)					
СС	Joe Worley (GLY); Karl Roesch (NBBJ)					
PURPOSE	To review the vapor barrier, water bar, and	bentonit	e installation.			
WEATHER	76°F, Sunny					
PRESENT	Joe Worley (GLY); Luke Betteridge (RDH)					

4.1 LOCATION: Underslab Vapor Barrier

### **TRADE: FLOOR:** P4; **GRID LINE:** A-H/9-15;

#### GLY COMMENTS:

RDH and GLY reviewed the installation of the underslab and below grade wall vapor barrier, DragoWrap at the west and east elevations, and under the south slab pour. Inland confirmed that they have not yet performed their final QC of this area after the iron workers finish the lower rebar mat installation. With reference to ASI 023 and Submittal 071713-002-0 we observed the following (Photo 4.1a):

1. Vapor barrier seams are welded together, and we probed approximately 75-ft of seams at the south end of the under slab vapor barrier (Photo 4.1b). We observed that the seams are consistently welded together.

2. We observed multiple punctures through the membrane which will need to be patched with Drago tape, per manufacturer requirements (Photo 4.1c).

3. Penetrations are detailed with Drago Mastic, per the above noted submittal (Photo 4.1d). We observed that the mastic is evenly applied around the penetrations reviewed.

4. At the tower crane footing, the DragoWrap is terminated at the top and bottom of the footing with a termination bar and Drago Mastic, per RFI 272 (Photo 4.1e).

#### **ACTION REQUIRED:**

GLY to patch punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.



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Photo 4.1a

Photo 4.1b

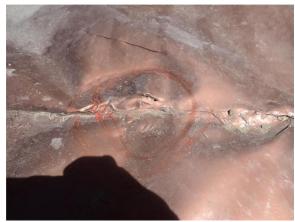


Photo 4.1c



Photo 4.1d



Photo 4.1e



4.2 LOCATION: Bentonite Waterproofing Installation

TRADE: FLOOR: Various; ELEVATION: East, South, West; GRID LINE: H/13-15, D-F/15, A/8-10;

## COMMENTS:

We reviewed the Bentonite installation at the above noted locations. We observed the following:

1. The bentonite installed at the above noted grid-lines aligns with the shop drawing extents provided in submittal 071713-003-0.

2. Bentonite membrane side labs are measured at 4 locations and are 7 and 9-inches, which meet the Cetco 4-inch lap requirement for cast-in-place walls and the 6-inch requirement for shotcrete walls (Photo 4.2a). All levels are anticipated to be cast-in-place except for P1 which is to be shotcrete.

3. Washer headed fasteners are installed at 20 to 24-inches O.C at membrane seams and within the field of the membrane, which meets the Cetco 24-inch fastening requirement (Photo 4.2b).

## **INFORMATION ONLY:**

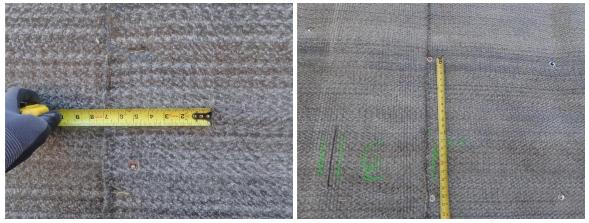


Photo 4.2a

Photo 4.2b

4.3 LOCATION: Water Bar Installation

TRADE: FLOOR: P4; ELEVATION: South;

## COMMENTS:

We reviewed the water bar installation at the anticipated cold joints within the slab and at slab to wall transitions. With reference to submittal 033006-001-0 and we observed the following:

1. The water bar is secured to lagging and the rat slab with fasteners installed within the outer edge of the membrane over constant substrate, per Sika requirements (Photo 4.3a).

2. Water bar seams are welded together with the profiles aligned with no burning or blistering, per Sika welding requirements.

3. Where bentonite membrane is installed at cold joints the water bar terminates at the edge of the bentonite membrane, per RFI 285 (Photo 4.3b).

## **INFORMATION ONLY:**



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Photo 4.3a

Photo 4.3b

4.4 LOCATION: Waterstop Installation at Crane Footing

## TRADE: FLOOR: P4;

## GLY COMMENTS:

RDH and GLY reviewed the waterstop installation around the crane footing. No product packaging was on site during the visit, but GLY confirmed that Sika Swellstop is installed, per submittal 033006-001-0. We observed that waterstop is installed in two rows at side of the tower crane footing at the top and the bottom, per RFI 272 (Photo 4.4a).

We were only able to access the northeast corner of the footing where we probed the waterstop and observed that it is adhered to the substrate and, where needed, further secured with washer headed fasteners per installation requirements (Photo 4.4b). We also visually observed one location on the south side of the footing where there is a 2-foot break in the waterstop where a section is not adhered (Photo 4.4c). GLY confirmed that this would be repaired.

## ACTION REQUIRED:

Re-install waterstop where it is not adhered so that it is continuous. Provide confirmation and photographs to RDH of the repair.





Photo 4.4a

Photo 4.4b



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Photo 4.4c

Luke Betteridge | EIT Building Science Engineer (EIT) lbetteridge@rdh.com



REGARDING ACTION LIST PROJECT 20372.000 Block 38 - Building Enclosure Consulting RDH Building Science Inc. 2101 N 34th Street #150 Seattle, WA 98103

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COMPANY GLY Construction Inc. DATE 07/21/2020

07/15/2020



4.1 LOCATION: Underslab Vapor Barrier

□ Signed off FLOOR: P4; GRID LINE: A-H/9-15;

Signoff Date:

Signoff By:

RDH and GLY reviewed the installation of the underslab and below grade wall vapor barrier, DragoWrap at the west and east elevations, and under the south slab pour. Inland confirmed that they have not yet performed their final QC of this area after the iron workers finish the lower rebar mat installation. With reference to ASI 023 and Submittal 071713-002-0 we observed the following (Photo 4.1a):

VISIT DATE:

1. Vapor barrier seams are welded together, and we probed approximately 75-ft of seams at the south end of the under slab vapor barrier (Photo 4.1b). We observed that the seams are consistently welded together.

2. We observed multiple punctures through the membrane which will need to be patched with Drago tape, per manufacturer requirements (Photo 4.1c).

3. Penetrations are detailed with Drago Mastic, per the above noted submittal (Photo 4.1d). We observed that the mastic is evenly applied around the penetrations reviewed.

4. At the tower crane footing, the DragoWrap is terminated at the top and bottom of the footing with a termination bar and Drago Mastic, per RFI 272 (Photo 4.1e).

## **Action Required**

GLY to patch punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.

## Signoff Comments:



Photo 4.1a

Photo 4.1b



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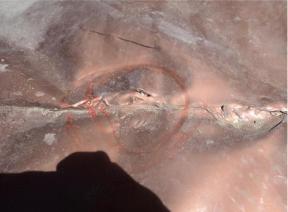




Photo 4.1c

Photo 4.1d



Photo 4.1e

4.4 LOCATION:

Waterstop Installation at Crane Footing VISIT DATE: 07/15/2020

□ Signed off FLOOR: P4;

Signoff Date:

Signoff By:

RDH and GLY reviewed the waterstop installation around the crane footing. No product packaging was on site during the visit, but GLY confirmed that Sika Swellstop is installed, per submittal 033006-001-0. We observed that waterstop is installed in two rows at side of the tower crane footing at the top and the bottom, per RFI 272 (Photo 4.4a).

We were only able to access the northeast corner of the footing where we probed the waterstop and observed that it is adhered to the substrate and, where needed, further secured with washer headed fasteners per installation requirements (Photo 4.4b). We also visually observed one location on the south side of the footing where there is a 2-foot break in the waterstop where a section is not adhered (Photo 4.4c). GLY confirmed that this would be repaired.

## Action Required

Re-install waterstop where it is not adhered so that it is continuous. Provide confirmation and photographs to RDH of the repair.

## Signoff Comments:



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Photo 4.4a

Photo 4.4b



Photo 4.4c



CLIENT	Vulcan Inc.	PROJECT	20372.000	005		
VISIT DATE	30 Jul, 2020		Block 38 - Building Enclosure Consulting	S		
WRITER	Luke Betteridge	REVIEWER	Denali Jones			
то	Sean Biehl (Vulcan)					
CC	Joe Worley (GLY); Karl Roesch (NBBJ)					
PURPOSE	To review the vapor barrier, bentonite men	nbrane, ai	nd waterstop installation.			
WEATHER	69°F, Sunny					
PRESENT	Joe Worley (GLY); Luke Betteridge (RDH)					

5.1 LOCATION: Underslab Vapor Barrier

## TRADE: FLOOR: P4; GRID LINE: A-H/11-14;

#### GLY COMMENTS:

RDH, GLY, and Inland (installers) reviewed the installation of the underslab vapor barrier, DragoWrap, at the above noted location at the south slab pour. Where the first bar has been laid over the vapor barrier Inland advised they have performed their final QC and where bar has not been laid they still need to perform their final GC. With reference to ASI 023 and Submittal 071713-002-0 we observed the following:

We began by reviewing where reinforcement bar has been installed in Inland already performed their QC (GL A-H/11-12) (Photo 5.1a).

1. We probed approximately 25-ft of seams and observed consistent welds (Photo 5.1b).

2. Penetrations are detailed with Drago Mastic, per the above noted submittal (Photo 5.1c). We observed that the mastic is evenly applied around the penetrations reviewed.

During the review of the area where the reinforcement bar is not yet placed we observed that the penetrations are detailed consistently with mastic and seams are fully welded, but we observed punctures through the membrane at various locations which will need to be patched with Drago tape, per manufacturer requirements (Photo 5.1d). Inland confirmed this will be completed during their final QC of this area.

#### **ACTION REQUIRED:**

GLY to patch punctures in the membrane with Drago tape. Provide confirmation this has been completed and representative photographs of these repairs to RDH.



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Photo 5.1a

Photo 5.1b



Photo 5.1c



Photo 5.1d



5.2 LOCATION: Bentonite Waterproofing Installation

TRADE: FLOOR: Various; ELEVATION: West and North;

## GLY COMMENTS:

We reviewed the Bentonite installation at the above noted locations. With reference to submittal 071713-001-0 we observed the following:

1. Bentonite membrane side labs are measured at 2 locations and are 8 and 9-inches, which meet the Cetco 4-inch lap requirement for cast-in-place walls and the 6-inch requirement for shotcrete walls (Photo 5.2a). All levels are anticipated to be cast-in-place except for P1 which is to be shotcrete.

2. Washer headed fasteners are installed at 19 to 22-inches O.C at membrane seams and within the field of the membrane, which meets the Cetco 24-inch fastening requirement (Photo 5.2b).

3. Drain gates are installed through the bentonite membrane at the anticipated water line per the above noted submittal (Photo 5.2c). These are detailed with Bentoseal mastic and we could feel a target patch of the bentonite membrane installed around the penetration underneath the field sheet.

4. At locations where water bar was previously installed over the bentonite membrane mastic is installed over the fastener penetration holes (Photo 5.2d).

5. At the north elevation we observed two tears in the bentonite membrane (Photo 5.2c). The installers confirmed that a bentonite patch will be installed over these tears with the edges detailed with mastic, per Cetco patching requirements.

## **ACTION REQUIRED:**

GLY to patch the bentonite tears with a bentonite patch with the edges detailed with mastic. Provide confirmation and photographs of the repair to RDH.



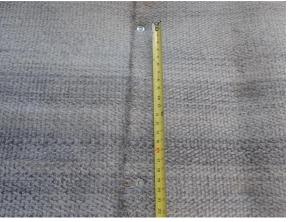


Photo 5.2a

Photo 5.2b



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Photo 5.2c

Photo 5.2d

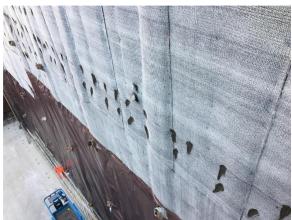


Photo 5.2e

5.3 LOCATION: Cold Joint Waterstop Installation

### TRADE: FLOOR: P4; ELEVATION: West; GRID LINE: A/1-4;

### COMMENTS:

We reviewed the waterstop installation at the slab to wall cold joint, at the above noted location. With reference to Submittal 033006-001-0, we observed the following:

1. Packaging is observed onsite for Sika Swellstop and Swellstop II per the above noted submittal (Photo 5.3a).

2. Two rows of waterstop are installed of Swellstop I and II. There is a minimum cover of 4.5-inches on each side of the rows of waterstop, which is over Sika's minimum 2-inch cover requirement (Photos 5.3b-c).

3. 3M Hi-strength 90 spray adhesive is used to secure the waterstop to the concrete. We proved approximately 10 linear feet of the installed waterstop and observed that it is adhered to the substrate (Photo 5.3d).

4. Waterstop ends are cut at 45° angles and butted together, per manufacturer requirements (Photo 5.3e).

## **INFORMATION ONLY:**



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Photo 5.3a

Photo 5.3b







Photo 5.3d



Photo 5.3e

Luke Betteridge | EIT Building Science Engineer (EIT) lbetteridge@rdh.com

## PlanGrid Task Report - Aug 6, 2020

Prepared by Joe Worley Aug 6, 2020

## Description

Closed RDH Action Items 5.1 and 5.2.

## Contents

#22 Inland	2
#21 Inland	4

## #22 Inland

Status Closed

Type Issue

Location South Mat

List RDH Site Report

Description RDH SVR # 005 item 5.1 20200730: patch punctures in vapor barrier.

20200803: vapor barrier punctures patched

## **Photos**

IMG\_2469 Joe Worley Aug 3, 2020 12:13 PM Assignees joe.worley@gly.com

Watchers joe.worley@gly.com

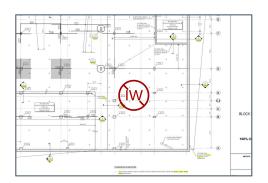
Start Date Jul 30, 2020

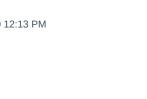
Created Aug 6, 2020 8:18 AM joe.worley@gly.com

Last Updated Aug 6, 2020 8:31 AM

Closed At Aug 6, 2020

## **Sheet** S1-002



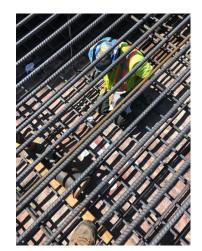




IMG\_2468 Joe Worley Aug 3, 2020 12:12 PM



IMG\_2467 Joe Worley Aug 3, 2020 12:12 PM



IMG\_2465 Joe Worley Aug 3, 2020 12:12 PM

## **#21 Inland**

**Status** Closed

Туре Issue

Location North Mat

List **RDH Site Report** 

## Description

RDH SVR # 005 Item 5.2

20200730: patch tears in bentonite

20200803: tears in vapor barrier patched

## **Photos**

IMG\_2471 Joe Worley Aug 3, 2020 2:21 PM Assignees joe.worley@gly.com

Watchers joe.worley@gly.com

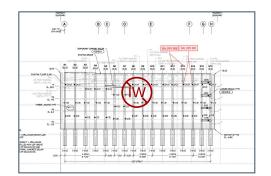
**Start Date** Jul 30, 2020

Created Aug 6, 2020 7:59 AM joe.worley@gly.com

Last Updated Aug 6, 2020 8:31 AM

**Closed At** Aug 6, 2020

## Sheet SH3.0





## APPENDIX J SOIL DISPOSAL TONNAGE SUMMARY

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

# Table 1Soil Disposal SummaryBlock 38 West PropertySeattle, WashingtonFarallon PN: 397-019

		Disposal Facility							
	Iron Mountain	Iron Mountain	Cadman	Cadman	Waste Management	Republic Services			
	Class 1	Class 2	Class 2	Class 3	Class 3	Class 3+			
Date Range:	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)			
11/21/2019 01/24/2020	0	0	0	0	0	6,546.43			
01/27/2020 01/31/2020	0	0	0	0	0	751.48			
02/03/2020 02/07/2020	0	0	0	0	0	1,751.11			
02/10/2020 02/14/2020	0	0	0	0	0	1,676.68			
02/17/2020 02/21/2020	0	0	0	0	4,795.75	3,445.35			
02/24/2020 02/28/2020	0	0	260.19	0	4,854.57	5,079.17			
03/02/2020 03/06/2020	0	0	2,939.29	2,749.26	2,630.71	2,181.14			
03/09/2020 03/13/2020	0	0	5,210.13	805.50	100.89	0			
03/16/2020 03/18/2020	0	0	681.24	0	1,207.32	943.20			
03/19/2020 03/20/2020	3,428.70	0	342.58	0	139.92	422.31			
03/23/2020 03/27/2020	0	869.49	1,365.45	0	0	81.17			
04/20/2020 04/24/2020	1,097.08	0	4,063.13	0	0	0			
04/27/2020 05/01/2020	0	0	1,617.54	0	1,111.40	1,697.82			
05/18/2020 05/22/2020	5,168.91	0	3,073.23	0	0	438.90			
05/26/2020 05/29/2020	5,373.81	0	0	0	54.28	237.50			
06/01/2020 06/05/2020	1,656.51	0	0	0	0	0			
06/08/2020 06/13/2020	3,846.61	0	0	0	0	0			
06/15/2020 06/19/2020	0	0	0	0	0	0			
06/22/2020 06/26/2020	2,743.60	0	27.49	0	0	0			
06/29/2020 07/02/2020	383.67	0	0	0	0	0			
07/06/2020 07/10/2020	1,058.24	0	0	0	0	0			
Totals Through:	7/9/2020	7/9/2020	7/9/2020	7/9/2020	7/9/2020	7/9/2020			
Truck Count	859	30	668	119	547	897			
Total (tons)	24,757.13	869.49	19,580.27	3,554.76	14,894.84	25,252.26			
				To	tal Class 1 Soil (tons)	24,757.13			
					tal Class 2 Soil (tons)	20,449.76			
					ass 3 & 3+ Soil (tons)	43,701.86			
			Total In	npacted Soil; Class	2, 3, & 3+ Soil (tons)	64,151.62			

## APPENDIX K TREATMENT MEDIA DISPOSAL SUMMARY

INTERIM ACTION REPORT Block 38 West Site 500 Through 536 Westlake Avenue North Seattle, Washington

Farallon PN: 397-019

## Dewatering System Spent Media Disposal Table Block 38 West Property Seattle, Washington Farallon PN: 397-019

Description	Data Exported Officita	Quantity	Wests Designation	Waste Profile Number	Waste Manifest	Dessiving Fasility	Date Received	Scale Weight
Description	Date Exported Offsite	Quantity	Waste Designation Vapor Phase Media		waste Mannest	<b>Receiving Facility</b>	Date Received	(tons)
Securit Cashara Madia	7/13/2020	4	Hazardous Waste	OR344667	01022(41511)	Columbia Didaa Landfil	8/7/2020	2 (0
Spent Carbon Media		4 supersacks			019236415JJK	Columbia Ridge Landfill		3.60
Spent Carbon Media	7/22/2020	5 supersacks	Hazardous Waste	OR344667	019923275JJK	Columbia Ridge Landfill	9/30/2020	4.25
Spent Potassium Permanganate	7/22/2020	5 supersacks	Hazardous Waste	OR344906	019236419JJK	Columbia Ridge Landfill	9/30/2020	4.25
Spent Carbon Media	9/2/2020	6 supersacks	Hazardous Waste	OR344667	019236457JJK	Columbia Ridge Landfill	9/24/2020	6.00
Spent Carbon Media	10/13/2020	5 supersacks	Hazardous Waste	OR344667	019234504 JJK	Columbia Ridge Landfill	11/9/2020	3.75
Spent Carbon Media	1/12/2021	10 supersacks	Hazardous Waste	OR344667	019236470JJK	Columbia Ridge Landfill	1/28/2021	9.00
Spent Potassium Permanganate	1/12/2021	5 supersacks	Hazardous Waste	OR344906	019236470JJK	Columbia Ridge Landfill	1/28/2021	4.50
Spent Carbon Media	3/23/2021	1 supersack	Hazardous Waste	OR344667	019234592JJK	Columbia Ridge Landfill	4/12/2021	0.13
Spent Potassium Permanganate	3/23/2021	1 supersack	Hazardous Waste	OR344906	019234592JJK	Columbia Ridge Landfill	4/12/2021	0.50
						Total Treatment Media Dispos	ed of as Hazardous Waste	35.98
			Liquid Phase Media	Treatment				
Spent Carbon Media	7/13/2020	10 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	7/18/2020	7.87
Spent Carbon Media	7/22/2020	6 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	8/6/2020	4.12
Spent Carbon Media	9/2/2020	10 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	9/4/2020	7.02
Spent Carbon Media	10/28/2020	11 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	11/12/2020	9.64
Spent Carbon Media	11/10/2020	15 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	11/12/2020	13.5
Spent Carbon Media	1/12/2021	4 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	1/16/2021	3.6
Spent Carbon Media	3/23/2021	12 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	3/31/2021	11.34
Spent Carbon Media	4/27/2021	26 supersacks	Non-Hazardous	115187WA	N/A	Columbia Ridge Landfill	4/28/2021 and 5/4/2021	22.49
Spent Carbon Media, Electrocoagulation Line	8/13/2021	4 supersacks	Non-Hazardous	OR347587	N/A	Columbia Ridge Landfill		3.75

Waste Management of the NorthWest Reprint 29 Cedar Springs Lane Ticket# 31068 Amaing transcorrenge 7812 Ph: (541) 454-2643 Customer Name CITY INVESTORS IX LLC CITY IN Carrier CRL Columbia Ridge Landfill Ticket Date 08/07/2020 Vehicle# RAIL Volume Ticket Date 08/07/2020 Payment Type Credit Account CWM Load# 477326 Container Driver Hauling Ticket# ESP Check# Billing # 0000888 Route State Waste Code Gen EPA ID Manifest 019236415JJK Destination Grid PO 397-019 Profile OR344667 (LF04-AIR TREATMENT MEDIA - CARBON) Generator 168-CITY INVESTORS IX LLC CITY INVESTORS IX LLC 500-536 WESTLAKE AVENUE NORT Time Scale Operator Inbound Gross 7200 lb\* 08/07/2020 10:34:28 MANUAL WT nfletche Tare Tn

 In
 08/07/2020
 10:34:28
 MANUAL WT
 nfletche
 Tare

 Out
 08/07/2020
 10:34:28
 nfletche
 Net

 Comments
 \* Manual Weight
 Tons

Proc	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA DRM-Each CY S EVF-P-Standard Env MFE-e-Manifest (La TRANS EA TOTE-TRAN	100 100	4.00 1.00 4.00	Each % Each Each	221.00 17.50 25.00 108.00	108.00	\$234.68 \$25.00	WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax	\$108.00
Total Ticket	\$1683.68

7200 lb

3.60

Driver`s Signature

Waste Management of the NorthWest Reprint 629 Cedar Springs Lane Ticket# 30947 Amaing transcorrenge 7812 Ph: (541) 454-2643 Customer Name CITY INVESTORS IX LLC CITY IN Carrier CRL Columbia Ridge Landfill Ticket Date 07/31/2020 Vehicle# RAIL Volume Ticket Date 07/31/2020 Payment Type Credit Account CWM Load# 477326 Container Driver Hauling Ticket# Check# Billing # 0000888 Route State Waste Code Gen EPA ID Manifest 019236415JJK Destination Grid BestinationGridPO397-019ProfileOR344667 (LF04-AIR TREATMENT MEDIA - CARBON)Generator168-CITY INVESTORS IX LLC CITY INVESTORS IX LLC 500-536 WESTLAKE AVENUE NORT Operator Inbound Gross Time Scale TimeScaleOperator07/31/202014:10:18MANUAL WTpslider1mailmailmailmail In Tare Out 07/31/2020 14:10:18 pslider1 Net

Comments

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

Tons

Driver`s Signature

				1/20	201					ES	P	CVMI	
e	T	rint or type.	4 Constal D No. 1	47	Sale						I. OMB N	p. 2050-003	
1	W	ASTE MANIFEST	1. Generator ID Number	132	2	rgency Respons	24-0300	4. Manifest	192	364:	15.	IJK	
	5. Ge	enerator's Name and Mailin CITY INVES			Generat	or's Šite Addres	s (if different t	than mailing addre	ess)				
	Gone		STLAKE AVENUE N WA 98109 (206)342-2614	ORTH									
		ansporter 1 Company Name	e	U					Number				
	7 7.		L WASTE MANAGE	MENT, INC.	144					089452	2353		
		ansporter 2 Company Name UPRR esignated Facility Name and								001792	910		
		ity's Pho <b>(541)454-2</b>	CHEM 17629	ICAL WASTE MANAGEMENT, INC. CEDAR SPRINGS LANE GTON OR 97812-9709					ORD089452353				
	9a.	9b. U.S. DOT Descriptio	on (including Proper Shipping Name		Contraction of the second	10. Conta	ainers	11. Total	12. Unit	12	. Waste Co	doa	
	HM	and Packing Group (if an				No.	Туре	Quantity	Wt./Vol.	13.	Waste CO	T	
OCINEINAL ON	х	(CARBON),	ZARDOUS WASTE, 9,PGIII	SOLID,N.O.S.	OR344667	4	BA	7,200	Р	F002		+	
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ſ					1.5								
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	14.5	OR344667-LF04	s and Additional Information 4						9	709	09		
							10	MKU -	à	1070	HA	P	
	Gener	marked and labeled/placard Exporter, I certify that the co I certify that the waste minin rator's/Offeror's Printed/Typ		to the terms of the attache	cording to applicable inter d EPA Acknowledgment	mational and na of Consent.	escribed abov tional governr all quantity ge	ve by the proper simental regulations	nipping nam	hipment and I	am the Pri	mary	
-	16. In	EAN BIE ternational Shipments		[ 	In	-/-/	2 g	f			(1)	) ac	
	Trans	porter signature (for export	is only):		Export from U.S.	Port of e Date leav		J				_	
		ansporter Acknowledgment			<u>.</u>	M							
		porter 1 Printed/Typed Nam porter 2 Printed/Typed Nam	(ABLA)	57	Signature	12			-	Mo	11:	3 120	
			(54/4	beimer		5A				Ď	>VE	10.	
		screpancy	57 - 77										
	18a. E	Discrepancy Indication Space	Quantity	Туре	L	Residue		Partial Rej	ection		Full Re	ejection	
	18h A	Iternate Facility (or Genera	(tor)		Ma	nifest Referenc	e Number:	U.S. EPA ID 1	lumber				
	100. P	internate r dointy (Or General						U.S. EPAID I	NUMBER				
		y's Phone:											
	18c. S	Signature of Alternate Facilit	y (or Generator)							Mo	onth Da	ay Year I	
	19. Ha	azardous Waste Report Mar	nagement Method Codes (i.e., code	s for hazardous waste trea	tment, disposal, and rec	(cling systems)							
	1.		2.		3.	g - y - Normal y		4.					
-	H	30	0										
	_	esignated Facility Owner or d/Typed Name	Operator: Certification of receipt of	pazardous materials cover	ed by the manifest excep Signature	t as noted in Ite	m 18a			Mo	onth Da	ay Year	
	1	nur	Sinlas			X					112	7120	
A	Form	8700-22 (Rev. 12-17)	Previous editions are obsolete.		CC C	DE	SIGNATE	D FACILITY	TO EP	A's e-MA	NIFEST	SYSTEM	
												Bn	

(Continuation Sheet)	WAL	tor ID Number		22. Page 2		ifest Tracking N		
Senerator's Name	SIXLL	100000132	1 17	0ĭ∠			0	)19236415JJK
0	17.	2.						
Transporter <u>COLI</u>	UMBIA	RIDGE LANDFILL			-	U.S. EPA ID	) Number	987173457
Transporter Company Name			3 Q 1	1		U.S. EPA IC		
27b. U.S. DOT Description (including Proper Sh	ipping Name,	Hazard Class, ID Number,	1.10	28. Contr	ainers	29. Total	30 Linit	
and Packing Group (if any))			1.16.1	No.	Туре	Quantity	Wt./Vol.	31. Waste Codes
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ardous Waste Report Management Method Codes	s (i.e., codes ic	or hazardous waste treatment, di	isposal, and recy	/cling systems)			I	
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	City Investors City Investors TransporterCompany Name Colu TransporterCompany Name 27b. U.S. DOT Description (including Proper Ship and Packing Group (if any))	City INVESTORS IX L.L.C. TransporterCompany Name COLUMBIA TransporterCompany Name 27b. U.S. DOT Description (including Proper Shipping Name, and Packing Group (if any))	Sererator's Name CITY INVESTORS IX L.L.C. Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name Table Transporter Company Name Table Transporter Company Name Columbia Ridge Landfill Transporter Company Name Transporter Company Name Columbia Ridge Landfill Transporter Company Name Transporter Company Name Columbia Ridge Landfill Transporter Company Name Columbia Ridge Landfill Transporter Company Name Transporter Company Name Columbia Ridge Landfill Company Name Columbia Ridge Landfill Company Ridge Landfill Company Company Company Ridge Landfill Company Co	Bererator's Name CITY INVESTORS IX L.L.C. Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name Z70. US. DOT Description (including Proper Shipping Name, fazard Class, ID Number, and Packing Group (if any)) Z70. US. DOT Description (including Proper Shipping Name, fazard Class, ID Number, and Packing Group (if any)) Company Name Compa	Serierator's Name CITY INVESTORS IX LLLC.  Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name 270. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, No. 28. Contain and Packing Group (if any) 28. Contain 29. Contain 20. Contain 20	Beneator's Name CITY INVESTORS IX L.L.C.  Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name COLUMBIA RIDGE LANDFILL Transporter Company Name Columbria Ridge Landfill Company Name Company Name Columbria Ridge Landfill Company Name Company	Binecidr's Name CITY INVESTORS IX LL C.  ItansporterCompany Name COLUMBIA RIDGE LANDFILL US EPAID 226. US Company Name Company Company Name Company Name Company Name Company Name C	Severator's Name CITY INVESTORS IX LLC.  Transporter Company Name COLUMBIA RIDGE LANDFILL US. EPA ID Number US. EPA ID Number 22.0.1.5. DOT Description (Including Proper Stipping Name, Stand Class, ID Number, No. Type 23.0.1.0.1 24.0.1.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1.0.1 25.0.1 25.0.1.0.1 25.0.1 25.0.1.0 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.0.1 25.

WASTE MANAGEMENT	Chemical Waste Mana 17629 Cedar Springs Arlington, OR, 9781 Ph: (541) 454-2643	Lane	e NorthWest	Reprint Ticket# 32565	
Customer Name CITY IN Ticket Date 09/30/2 Payment Type Credit CWM Load# 477450- Hauling Ticket# ESP Route State Waste Code Manifest 0199232	020 Account 2	N Carrier Vehicle# Container Driver Check# Billing # Gen EPA ID	RAIL 0000888	dge Landfill Volume	
Destination		Grid			
PO 397-019					
	7 (LF04-AIR TREATMENT		,		
Generator 168-CIT	Y INVESTORS IX LLC CI	TY INVESTORS	IX LLC 500-536	WESTLAKE AVEN	UE NORT
Time In 09/30/2020 11:18 Out 09/30/2020 11:18	:07 MANUAL WT n :07 n	Operator fletche fletche	Inbound	Gross Tare Net	8500 lb* 8500 lb
Commonta	*	Manual Weig	ht	Tons	4.25

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin	
1 2 3	RCRA DRM-Each CY S EVF-P-Standard Env TRANS EA TOTE-TRAN	100	5.00 5.00	Each % Each	221.00 17.50 108.00	127.50	\$287.88	WA-SEATTLE WA-SEATTLE WA-SEATTLE	

Total Tax	\$127.50
Total Ticket	\$2060.38

WASTE MANAGEMENT	Chemical Waste Mana 17629 Cedar Springs Arlington, OR, 9781 Ph: (541) 454-2643	Lane		Reprint Ficket# 32564	
Ticket Date 09/30/2 Payment Type Credit CWM Load# 477450-	Account	Vehicle# RAI Container Driver		ge Landfill Volume	
Hauling Ticket# ESP Route		Check# Billing # 00	00000		
State Waste Code		Gen EPA ID	000000		
Manifest 0192364	19.т.тк	OCH BIA ID			
Destination	270011	Grid			
PO 397-019					
Profile OR34490	6 (INC14-AIR TREATMEN	T MEDIA - KM)			
Generator 168-CIT	Y INVESTORS IXLLC 500	CITY INVESTORS	IX LLC 500-53	36 WESTLAKE AV	JE NORT
Time		Operator		Gross	8500 lb*
In 09/30/2020 11:11 Out 09/30/2020 11:11		fletche fletche		Fare Net	8500 lb
Out 09/30/2020 11.11		Manual Weight		rons	4.25
Commonta		manuar wergilt	-		т.4Ј

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA Outb-Each CY EVF-P-Standard Env TEN DAY SEA-TEN DA MFE-e-Manifest (La	100 100	5.00 5.00 1.00	% Each	2890.00 17.50 108.00 25.00		\$2627.63	WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax Total Ticket \$17642.63

WASTE MANAGEMENT	Chemical Waste Manag 17629 Cedar Springs Arlington, OR, 97812 Ph: (541) 454-2643		Reprint Ticket# 32233
Customer Name CITY INV			5
Ticket Date 09/17/20		Vehicle# RAIL	Volume
Payment Type Credit A	account	Container	
CWM Load# 477450		Driver	
Hauling Ticket#		Check#	
Route		Billing # 0000888	
State Waste Code		Gen EPA ID	
Manifest 01923641	.9JJK		
Destination		Grid	
PO 397-019			
Profile OR344906	5 (INC14-AIR TREATMENT	'MEDIA - KM)	
Generator 168-CITY	INVESTORS IXLLC 500	CITY INVESTORS IX LLC 500-	-536 WESTLAKE AVE NORT
Time	Scale 0	perator Inbound	Gross
In 09/17/2020 08:26:	37 MANUAL WT ps	lider1	Tare
Out 09/17/2020 08:26:	37 ps	lider1	Net
			Tons

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

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			×		6	177450				Form A	Approved. C	MB No. 20	50-0039
		or type.	1. Generator ID Numb	er	2	Page 1 of 3. Emerge	ncy Response P		4. Manifest Tra	a 2 2	<sup>1ber</sup> 641	а. <b>I.I</b>	ĸ
1	UNIFO	ORM HAZARDOUS		000050132		2 Generator	(800)424	4-9300 different that	n mailing address)	525	041	5 00	
	5. Gen	to to Mana and Mailin	g Address	.C		Generator	607 TE	RRY A	VE N				
		500-536 W	ESTI AKE AV	ENUE NORTH	4		SEATT	LE, W	A 98109				
	Genera	SEATTLE ator's Phone:	(206)342-	98109 2614				-	U.S. EPA ID Nu				
	6. Trar	and at 1 Company Nam	AL WASTE N	ANAGEMENT	, INC.				U.S. EPA ID Nu	12-44 (AL 2016)	089452	353	
	7. Tra	nsporter 2 Company Nan									001792	910	
		UPRR signated Facility Name a	d Site Address				or other states		U.S. EPA ID N	umber			
		ty's Phon (541)454		CHEMICAL 17629 CED ARLINGTO	AR SPRIN	ANAGEMEN GS LANE 12-9709	T, INC.			ORD	089452	353	
	Facili 9a.	9b. U.S. DOT Descrip	tion (including Proper	Shipping Name, Hazard C	Class, ID Number,		10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes	5
	HM	and Packing Group (if	any))			E 5 1 PGI	110.		850	-	D003		
ROR	х	" UN1490,V	ASTEPUTA	SSIUM PERM			S	BA	0,00	Р	0000		
GENERATOR		2 14007711	474000UP	WASTE, SOLI	DNOS	OR344906				Р	F002		
GEN	х	<ol> <li>NA3077,H (CARBON</li> </ol>		14401E,00E	0,14.0.0.		5	BA	8500		1002		
						OR344667	0		0,5 0				
		3.											
		4.											
	14.9	OR344906-LI OR344906-LI	ons and Additional Info	rmation									
	1	.01344007-21	-04					126.0	119	20	302		
	15	GENERATOR'S/OFFER	OR'S CERTIFICATIO	N: I hereby declare that	the contents of this	consignment are fully a	ind accurately de	escribed abov	e by the proper sh	ipping nam	e, and are cla	ssified, pack	aged,
		marked and labeled/plac Exporter. I certify that the	arded, and are in all re contents of this consi	espects in proper conditio anment conform to the te	on for transport according to the attached a	ording to applicable inte d EPA Acknowledgment	rnational and nati of Consent.	ional governr	nental regulations.	If export sh	nipment and I	am the Prim	ary
		I certify that the waste m rator's/Offeror's Printed/	inimization statement	identified in 40 CFR 262.	27(a) (if I am a larg	e quantity generator) or Signature	(b) (ifl am a sma	all quantity ge	enera <b>jo</b> r) is true.		Мо	nth Day	Year
	Gene	FAM	RIEHO	_		S	, K	~	P		0		
INT'L		ternational Shipments	Import to			Export from U.S.	Port of en		1				
		sporter signature (for exp ransporter Acknowledgm		als			Date leavi	ing U.S.:					
TRANSPORTER	Trans	porter 1 Printed/Typed N	ante XV	AKA		Signature	1			-	Mo	th Day	Year
NSP(	Trans	sporter 2 Printed/Typed N	lame Stor	VILIA		Signature		1			Mo	nth Day	Year
TRA			54	Itheir	MCR		GH					7 12 7	Ra
1	-	liscrepancy Discrepancy Indication S	<b>D</b>							~			
	104.	Discrepancy moleation of	pace Quan	tity	Туре	L	Residue		Partial Rej	ection		Full Reje	ection
	185	Alternate Facility (or Gen	erator)			M	anifest Reference	e Number:	U.S. EPA ID N	lumber			
FACILITY		Paternate r adaity (or our							0.0. 217101	tunne er			
D FA	Facil	ity's Phone: Signature of Alternate Fa	sility (or Constant)								1.64	onth Day	/ Year
VATE	100.	Signature of Alternate Pa	unity (or Generator)								NR I		
DESIGNATED	19. H	lazardous Waste Report	Management Method	Codes (i.e., codes for haz	zardous waste trea		cycling systems)						
B		040		2. HISU		3.			4.				
	20. D	esignated Facility Owne	r or Operator: Certifica	tion of receipt of hazardo	us materials covere		pt as noted in Iter	m 18a					
	Print	ad/Typed Name	Dul	2		Signature					Mc	nth Day	Year
EP.	A Forn	n 8700-22 (Rev. 12-1)	7) Previous edition	are obsolete.		K	DES	SIGNATE	D FACILITY	TO EP	A's e-MA	NIFEST	SYSTEM

BMS

PI		print or type.		47745	7			6	ESP CWMI
1		IFORM HAZARDOUS WASTE MANIFEST	21. Generator ID Number	22. Pag	e 2	23. Mani	fest Tracking Nu	mber	Approved. OMB No. 2050-0039
	24.	(Continuation Sheet) Generator's Name	WAH000050132		of 2				019236419JUK
			SIXLLC				4		
	25.	Transporter Company Name COL	UMBIA RIDGE LANDFILL				U.S. EPA ID		987173457
	26.	Transporter Company Name					U.S. EPA ID	Number	
	27a.		pping Name, Hazard Class, ID Number,	28.	Contain	ers	29. Total	30. Unit	
	HM	and Packing Group (if any))		No.	_	Туре	Quantity	Wt./Vol.	31. Waste Codes
	-				_				
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L H	-								
GENERATOR									
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	00.0								
	32.5	pecial Handling Instructions and Additional Informat	on						
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	33. Ti	ransporter Acknowledgment of Receipt of N	laterials				man	010	0505
TRANSPORTER	Printe	ed/Typed Name		Signature					Menuth Day Year
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TRA	Printe	ed/Typed Name	llams	Signature					Monto Day Year
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ACILI		v			)				
DESIGNATED FACILITY	36 1	azardous Wasta Report Management Method Octo	c (i.e. codec for boundaries to be the	diamond and the second		_			
IGNA.	50. M	azardous Waste Report Management Method Code	s (i.e., codes for nazardous waste treatment,	uisposal, and recycling syste	ems)			L	
DES		Î	1		<u>г</u>				
PA	Form	8700-224 (Rev. 12-17) Previous editions an					EACILITY		

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

WASTE MANAGEMENT	Chemical Waste Manag 17629 Cedar Springs Arlington, OR, 97812 Ph: (541) 454-2643	Lane	e NorthWest	Reprint Ticket# 3237	8
Customer Name CITY IN Ticket Date 09/24/2 Payment Type Credit CWM Load# 478008 Hauling Ticket# ESP Route State Waste Code Manifest 0192364	Account	Vehicle# Vehicle# Container Driver Check# Billing # Gen EPA ID	RAIL 0000888	dge Landfill Volume	
Destination		Grid			
PO 397-019					
Profile OR34466	7 (LF04-AIR TREATMENT	MEDIA - CAR	BON)		
Generator 168-CIT	Y INVESTORS IX LLC CI	TY INVESTORS	IX LLC 500-536	WESTLAKE AVE	NUE NORT
Time In 09/24/2020 10:43 Out 09/24/2020 10:43	:29 MANUAL WT ni :29 ni	Operator letche letche Manual Weig	Inbound	Gross Tare Net Tons	12001 lb* 12001 lb 6.00
d a mun a sa h a		manual merg			0.00

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA DRM-Each CY S EVF-P-Standard Env MFE-e-Manifest (La TRANS EA TOTE-TRAN	100 100	6.00 1.00 6.00	Each % Each Each	221.00 17.50 25.00 108.00	180.00	\$349.83 \$25.00	WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax	\$180.00
Total Ticket	\$2528.83

WASTE MANAGEMENT	Chemical Waste Ma 17629 Cedar Sprin Arlington, OR, 9 Ph: (541) 454-264	7812	Reprint Ticket# 32902
Customer Name CITY	INVESTORS IX LLC CITY	Y IN Carrier CRL Columbia I	Ridge Landfill
Ticket Date 10/1	2/2020	Vehicle# RAIL	Volume
Payment Type Cred		Container	
CWM Load# 4780	18	Driver	
Hauling Ticket#		Check#	
Route		Billing # 0000888	
State Waste Code		Gen EPA ID	
	36457JJK		
Destination		Grid	
PO 397-	)19		
Profile OR34	4667 (LF04-AIR TREATMI	ENT MEDIA - CARBON)	
Generator 168-0	ITY INVESTORS IX LLC	CITY INVESTORS IX LLC 500-5	36 WESTLAKE AVENUE NORT
Time	Scale	Operator Inbound	
	:02:34 MANUAL WT	pslider1	Tare
Out 10/12/2020 09	02:34	pslider1	Net
~ ·			Tons

Proc	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

	t or type. ORM HAZARDOUS	1. Generator ID Nu	imber		2. Page 1 of	3. Emerge	ency Response	e Phone	4. Manifest				
	STE MANIFEST	No. of the second se	H000050132	-	2		(800)4	24-9300	01	.92:	364	57.	JJł
5. Gen	erator's Name and Mailin	g Address			- Bea	Generator			nan mailing addres				
	CITY INVES	STORS IX L	LC					ERRYA					
			VENUE NORTI	Н			SEAT	TLE, W	A 98109			18 · ·	
Genera	SEATTLE ator's Phone:	(206)342	4 98109 -2114										
	sporter 1 Company Nam		A. 19						U.S. EPA ID N	Number			
	CHEMICA	L WASTE N	ANAGEMENT	T. INC.						OR	008945	2353	
7. Tran	sporter 2 Company Nam	e							U.S. EPA ID N	Number			
	UPRR								1	MED	0001792	2010	
8. Des	ignated Facility Name and	d Site Address							U.S. EPA ID N			6010	
	Contraction of Contra		CHEMICAL	WASTE M		MENT	INC						
			17629 CED							OP	008945	7252	
	's Phone 54 1)454-	2004 2	ARLINGTO	H 17, Hz H 0	the second second	_			T	UNI	200843	2333	
Facility			2,022, 20,0,20				10.0.1	(a. 672))			1		
9a.	9b. U.S. DOT Description and Packing Group (if a		Shipping Name, Hazard (	Class, ID Number,			10. Contai	1	11. Total Quantity	12. Unit Wt/Vol.		. Waste C	odes
НМ							No.	Type	wuanuty	111/101.		1	
х			WASTE, SOLI	D,N.O.S.			10	L'	12,000	P	F002		
·	(CARBON),	9,PGIII				1000	Q	CF	10,000	1			
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15 6	ecial Handling Instruction	R'S CERTIFICATIO	DN: I hereby declare that	the contents of this	consignment	are fully and	accurately de	scribed abov	e by the proper sh	ipping nam	ne, and are cl	assified, p	ackage
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Pupitsined PPR, J, KELJER, ASSOCIATES, INC.<sup>60</sup>, Neonah, WEUSA - (800) 227-5868- jikeljer.com • Printed in the Br

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WASTE MANAGEMENT	Chemical Waste Man 17629 Cedar Spring Arlington, OR, 978 Ph: (541) 454-2643	12	Vest Reprint Ticket# 339	901
Customer Name CITY IN			5	L
Ticket Date 11/09/2		Vehicle# RAIL	Volume	
Payment Type Credit	Account	Container		
CWM Load# 478692		Driver		
Hauling Ticket# ESP		Check#		
Route		Billing # 000088	38	
State Waste Code		Gen EPA ID		
Manifest 0192345	04JJK			
Destination		Grid		
PO 397-019				
Profile OR34466	7 (LF04-AIR TREATMEN	T MEDIA - CARBON)		
Generator 168-CIT	Y INVESTORS IX LLC C	ITY INVESTORS IX LLC	500-536 WESTLAKE AN	/ENUE NORT
Time	Scale	Operator In	bound Gross	7501 lb*
In 11/09/2020 17:08		tlane	Tare	
Out 11/09/2020 17:08		tlane	Net	7501 lb
040 11,00,2020 1,000		* Manual Weight	Tons	3.75
Comments		manaar wergite	10115	5.75

Prod	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA DRM-Each CY S EVF-P-Standard Env MFE-e-Manifest (La TRANS EA TOTE-TRAN	100 100	5.00 1.00 5.00	Each % Each Each	$221.00 \\ 17.50 \\ 25.00 \\ 108.00$	112.50	\$292.25 \$25.00	WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax	\$112.50
Total Ticket	\$2074.75

WASTE MANAGEMENT	Chemical Waste Mar 17629 Cedar Spring Arlington, OR, 978 Ph: (541) 454-2643	812	Reprint Ticket# 34651				
Customer Name CITY IN	VESTORS IX LLC CITY	IN Carrier CRL Columbia H	Ridge Landfill				
Ticket Date 12/01/2		Vehicle# RAIL	Volume				
Payment Type Credit	Account	Container					
CWM Load# 478692		Driver					
Hauling Ticket#		Check#					
Route		Billing # 0000888					
State Waste Code		Gen EPA ID					
Manifest 0192345	04JJK						
Destination		Grid					
PO 397-019							
	7 (LF04-AIR TREATMEN						
Generator 168-CII	Y INVESTORS IX LLC (	CITY INVESTORS IX LLC 500-53	6 WESTLAKE AVENUE NORT				
Time	Scale	Operator Inbound	Gross				
In 12/01/2020 09:10		pslider1	Tare				
Out 12/01/2020 09:10	:28	pslider1	Net				
<b>~</b> .			Tons				

Proc	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

CWMI

ise p	NIFORM HAZARDOUS	1. Generator	r ID Number		2. Page 1 o	f 3. Emerge	ency Respon	se Phone	4. Manifes	t Tracking	orm Approv		1 11
	WASTE MANIFEST	1	<u>\WAH00005</u>	0132					. 1 0.	102	Number 345	nA .	JJI
5.	Generator's Name and Ma	ailing Address				Generator	's Site Addres	s (if different t	han mailing addr	ess)			
1	CITY INVI	ESTORS	IX LLC				A70 T	FORVA	VE NOR	тн			
	500-536 V	VESTLAN	E AVENUE	NORTH					A 98109				
G	enerator'SPRATTLE	(200	WA 99103			1							
6.	Transporter 1 Company N	lame (190	JO41. 2.014						U.S. EPA ID	Number			
	CHEMI	CAL WAS	TE MANAG	EMENT, INC						OBI	D08045	2353	
7.	Transporter 2 Company I			the contract of the second					U.S. EPA ID	Number			
										LICE	<u>100170</u>	2010	
8	. Designated Facility Nam	e and Site Addre	ess						U.S. EPA ID I	Number			
11			CHE	MICAL WAS	TE MANAGE	MENT	UNC:						
11				20 CEDAR SP						OR	208945	2353	
11	Facility's Phone 1115	14-2843		INGTON OR									
11	, , , ,	Service and the service of the servi		me, Hazard Class, ID N	1994 - Pr		10. Contai	ners	11. Total	12. Unit Wt./Vol.	13	. Waste Code	es
	HM and Packing Grou	p (if any))					No.	Туре	Quantity	VV(./ VOI.			T
12	1.	111770000	ALLO MACT	COUDNO	e				7500	P	FC02	ļ	
Ö		N),9,PGI		E,SOLID,N.O	.3.		5	BA	7,500				
S	(CANDO	wy,a,r or			OR34	1687							
GENERATOR	2.												
Ö													
	3.												<u> </u>
11	1 1 .												
11						the second second second							
11	4.												
	14. Special Handling In 1. OR 344687	7-LF04		declare that the content	ts of this consignment	are fully and a	accurately des	cribed above	by the proper shi	pping name	e, and are cla	ssified, pack	aged,
	1.OR344687 15. GENERATOR'S/ marked and label Exporter, I certify I certify that the w Inerator's/Offeror's Pi	DFFEROR'S CER ed/placarded, and that the contents c aste minimization	RTIFICATION: I hereby are in all respects in pro- of this consignment con statement identified in -	declare that the content roper condition for trans form to the terms of the 40 CFR 262.27(a) (if I a	attached EPA Acknowl m a large quantity gen	ledoment of C	Consent.	shal governine	intai regulations.	pping name	Mo	nth Day	Ye
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WASTE MANAGEMENT	Chemical Waste Manag 17629 Cedar Springs Arlington, OR, 97812 Ph: (541) 454-2643		Reprint Ticket# 36268
Ticket Date 01/28/2	2021	N Carrier CRL Columbia R Vehicle# RAIL	idge Landfill Volume
Payment Type Credit		Container	
CWM Load# 479845-	L	Driver	
Hauling Ticket# ESP		Check#	
Route		Billing # 0000888	
State Waste Code		Gen EPA ID	
Manifest 0192364	:70JJK		
Destination		Grid	
PO 397-019	ļ		
Profile OR34490	6 (INC14-AIR TREATMENT	Г MEDIA - KM)	
		CITY INVESTORS IX LLC 500	-536 WESTLAKE AVE NORT
Time In 01/28/2021 07:45		Dperator Inbound Eletche	Gross 9001 lb* Tare
Out 01/28/2021 07:45		fletche	Net 9001 lb
011,20,2021 07.15		Manual Weight	Tons 4.50
		manaar wergne	1.50

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA Outb-Each CY EVF-P-Standard Env MFE-e-Manifest (La TEN DAY SEA-TEN DA	100 100	1.00	Each % Each Each	2890.00 17.50 25.00 108.00		\$2627.63 \$25.00	WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax Total Ticket \$17642.63

WASTE MANAGEMENT	Chemical Waste Management of the NorthWest Reprint 17629 Cedar Springs Lane Ticket# 36706 Arlington, OR, 97812 Ph: (541) 454-2643	
Customer Name CITY INV	ZESTORS IX LLC CITY IN Carrier CRL Columbia Ridge Landfill	
Ticket Date 02/08/20	021 Vehicle# RAIL Volume	
Payment Type Credit A	Account Container	
CWM Load# 479845	Driver	
Hauling Ticket#	Check#	
Route	Billing # 0000888	
State Waste Code	Gen EPÀ ID	
Manifest 01923647	70JJK	
Destination	Grid	
PO 397-019		
Profile OR344906	5 (INC14-AIR TREATMENT MEDIA - KM)	
	INVESTORS IXLLC 500 CITY INVESTORS IX LLC 500-536 WESTLAKE AV	E NORT
Time In 02/08/2021 14:08: Out 02/08/2021 14:08:	±	

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

ease print or type.	479845				$\bigcirc$	Form	n Approved.	OMB No	2050-00
UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST WAH00005	2. Page 1 of 0132 2		ncy Response	4-9300		racking N 923			
5. Generator's Name and Mailing Address 5; † 2 CITY INVESTORS IX LLC 500-536 WESTLAKE AVENUE SEATTLE WA 98109 Generator's Phone: (206)342-2614	per S. Beer Vulcan MORTH 9m 2-9-21	Generator's 4	670 TE	RRYA	an mailing addres VENUE NO A 98109	- C			
6. Transporter 1 Company Name CHEMICAL WASTE MANAGE	EMENT, INC.				U.S. EPA ID N		089452	353	
7. Transporter 2 Company Name UPRR					U.S. EPA ID N	NED	001792	910	
1762	MICAL WASTE MANAGE 9 CEDAR SPRINGS LAN NGTON OR 97812-9709		INC.		U.S. EPA ID N		)089452	353	
9a. 9b. U.S. DOT Description (including Proper Shipping Nan HM and Packing Group (if any))	ne, Hazard Class, ID Number,	-	10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Cod	les
X <sup>1.</sup> UN1490,WASTE POTASSIUM	PERMANGANATE,5.1,PC		5	BA	9,000	P	D003		
X 2. NA3077,HAZARDOUS WASTE (CARBON),9,PGIII	SOLID,N.O.S.	4667	10	BA	18,000	P	F002		
3.									
4.									
14. Special Handling Instructions and Additional Information 1.OR344906-INC14 2.OR344667-LF04							9	)W) 709	80
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby d marked and labeled/placarded, and are in all respects in pro Exporter, I certify that the contents of this consignment confor I certify that the waste minimization statement identified in 4 Generator's/Offeror's Printed/Typed Name STEAN BUEHC	per condition for transport according to applic orm to the terms of the attached EPA Acknowl 0 CFR 262.27(a) (if I am a large quantity gen	cable internati ledgment of C	tional and nation Consent.	onal governn	nental regulations.		nipment and I Mo		nary y Year
	Export from 0	J.S.	Port of ent		F				- 10-
			Date leaving	ng U.S.:			Ma	nth Da	y Year
16. International Shipments Import to U.S. Transporter signature (for exports only):		nature	-				MON		17/
16. International Shipments Import to U.S. Transporter signature (for exports only):	ISBN 1	nature					Mo		11
16. International Shipments Import to U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of receipt of Materials Transporter 1 Printed/Typed Name Transporter 2 Printed/Typed Name GOIHhe 18. Discrepancy	ISBN 1	//	) A				1/	1 12 1 12	222
16. International Shipments       Import to U.S.         Transporter signature (for exports only):         17. Transporter Acknowledgment of recept of Materials         Transporter 1 Printed/Typed Name         Transporter 2 Printed/Typed Name         GolfHee	ISBN 1		Residue	Number	Partial Reje	ection	1/	nth Da	212,
16. International Shipments       Import to U.S.         Transporter signature (for exports only):       17. Transporter Acknowledgment of Pecept of Materials         Transporter 1 Printed/Typed Name       Import to U.S.         Transporter 2 Printed/Typed Name       Import to U.S.         Transporter 2 Printed/Typed Name       Import to U.S.         18. Discrepancy       18a. Discrepancy Indication Space       Quantity	KG I signere		Residue est Reference	Number:	Partial Reje		1/	1 1/2	212,
16. International Shipments       Import to U.S.         Transporter signature (for exports only):       17. Transporter Acknowledgment of receipt of Materials         Transporter 1 Printed/Typed Name       Import to U.S.         Transporter 2 Printed/Typed Name       Import to U.S.         Transporter 2 Printed/Typed Name       Import to U.S.         18. Discrepancy       18a. Discrepancy Indication Space       Quantity	KG I signed			Number:			Mo	1 1/2	LIZ.
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16. International Shipments       Import to U.S.         Transporter signature (for exports only):       17. Transporter Acknowledgment of Receipt of Materials         Transporter 1 Printed/Typed Name       Import to U.S.         Transporter 2 Printed/Typed Name       Import to U.S.         18. Discrepancy       18. Discrepancy         18. Discrepancy       Import to U.S.         18b. Alternate Facility (or Generator)       Import to U.S.         Facility's Phone:       18c. Signature of Alternate Facility (or Generator)	If the sign of the second s	Inature	ing systems)				Mo	I  J∂ □ Full Re	LIZ.

	(Continuation Sheet)	479845 Ierator ID Number	<sup>22, Page</sup> 2	23. Mani	ifest Tracking N	lumber	rm Approved. OMB No. 2050	)-()
	24. Generator's Name	4H000050132	of 2				019236470.UK	_
	CITY INVESTORS IX LLC							
	25. Transporter Company Name COLUMBIA				U.S. EPA ID			_
	26. Transporter Company Name					ORD	D987173457	_
					U.S. EPA ID	Number		Ĩ
	27a. 27b. U.S. DOT Description (including Proper Shipping Name HM and Packing Group (if any))	a Hazard Class, ID Number,	28. Contair		29. Total	30. Unit	31. Waste Codes	_
			No.	Туре	Quantity	Wt./Vol.		_
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3	3. Transporter Acknowledgment of Receipt of Materials						910980	Ľ
1	rinted/Typed Name	Signature	1	2			Month Day Year	ar,
	Arransporter Acknowledgment of Receipt of Materials	150	naht	tas	stu		STHAD	Ŋ
	TransporterAcknowledgment of Receipt of Materials     inted/Typed Name	Signature					Month Day Year	- ar
	5. Discrepancy							1
2	. Discrepancy							
in an	. Hazardous Waste Report Management Method Codes (i.e., codes	Ar horestowe waste treatment discussed and nor						
		IDF hazardous waste treatment, uispusar, anu recy	cling systems)			I		Ĵ
	1							-
	rm 8700-22A (Rev. 12-17) Previous editions are obsolete.						e-MANIFEST SYSTE	ß

WASTE MANAGEMENT	Chemical Waste Manag 17629 Cedar Springs Arlington, OR, 97812 Ph: (541) 454-2643		Reprint Ticket# 38803
		N Carrier CRL Columbia R	5
Ticket Date 04/12/2		Vehicle# RAIL	Volume
Payment Type Credit		Container	
CWM Load# 481106	-1	Driver	
Hauling Ticket# ESP		Check#	
Route		Billing # 0000888	
State Waste Code		Gen EPA ID	
Manifest 019234	592JJK		
Destination		Grid	
PO 397-019	9		
Profile OR34490	06 (INC14-AIR TREATMEN	T MEDIA - KM)	
Generator 168-CI	TY INVESTORS IXLLC 500	CITY INVESTORS IX LLC 500-	-536 WESTLAKE AVE NORT
Time	Scale (	Operator Inbound	Gross 501 lb*
In 04/12/2021 07:22		fletche	Tare 1 lb*
Out 04/12/2021 07:22		fletche	Net 500 lb
		Manual Weight	Tons 0.25
<b>d</b>		manaar mergine	10115 0.25

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	RCRA Outb-Each CY EVF-P-Standard Env MFE-e-Manifest (La TEN DAY SEA-TEN DA	100 100	1.00 1.00 1.00		2890.00 17.50 25.00 108.00		\$529.03 \$25.00	WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

Total Tax Total Ticket \$3552.03

WASTE MANAGEMENT	Chemical Waste Mana 17629 Cedar Springs Arlington, OR, 9781 Ph: (541) 454-2643		Reprint Ticket# 38742
Customer Name CITY I	NVESTORS IX LLC CITY I	N Carrier CRL Columbia R	ldge Landfill
Ticket Date 04/09/		Vehicle# RAIL	Volume
Payment Type Credit	Account	Container	
CWM Load# 481106		Driver	
Hauling Ticket#		Check#	
Route		Billing # 0000888	
State Waste Code		Gen EPA ID	
Manifest 019234	592JJK		
Destination		Grid	
PO 397-01	9		
Profile OR3449	06 (INC14-AIR TREATMEN	T MEDIA – KM)	
Generator 168-CI	TY INVESTORS IXLLC 500	CITY INVESTORS IX LLC 500-	-536 WESTLAKE AVE NORT
Time In 04/09/2021 15:2	3:33 MANUAL WT p	Operator Inbound slider1	Gross Tare
Out 04/09/2021 15:2	3:33 p	slider1	Net Tons

Prod	luct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax Total Ticket

4	se print or type.	4811	de				Form	n Approved.	OMB No.	2050-003
	UNIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST WAH0000		2. Page 1 of 3. Emer 2	(800)4	24-9300	4. Manifest	Tracking N 92			
	5. Generator's Name and HeilingAddress Site CITY INVESTORS IX LLC 500–536 WESTLAKE AVENUE SEATTLE WA 98100 Generator's Phone: (206)342-2614		Generato	r's Site Addres 670 T	s (if different the	an mailing addres VENUE N A 98109	<sup>is)</sup> ORTH			1    0
	6. Transporter 1 Company Name CHEMICAL WASTE MANAG	EMENT, INC.				U.S. EPA ID I		089452	2353	
	7. Transporter 2 Company Name UPRR					U.S. EPAID	NEC	001792	910	
	176	MICAL WASTE N 29 CEDAR SPRIN INGTON OR 978	IGS LANE	T, INC.		U.S. EPA ID I		089452	2353	
	ga.         9b. U.S. DOT Description (including Proper Shipping Na HM           and Packing Group (if any))	me, Hazard Class, ID Number,		10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Cod	es
	X I. UN1490, WASTE POTASSIUM	PERMANGANAT	TE,5.1,PGII 0R344906	1	BA	500	P	D003		
1	X 2. NA3077,HAZARDOUS WAST (CARBON),9,PGIII	ESOLID,N.O.S.	OR344667	1	BA	250	P	F002		
	3.									
	14. Special Handling Instructions and Additional Information									
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	2.OR344667-LF04	deline that the contacts of this	a consistencent are fully o	nd ansumbly a	lessified about	by the proper of	Noning nam	9.	501 807	97
	2. OR 344667-LF04     15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pl Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in	oper condition for transport acc form to the terms of the attache	cording to applicable inte ed EPA Acknowledgment ge quantity generator) or	rnational and na of Consent.	ational governm	ental regulations	hipping nam If export sl	e, and are cla hipment and I	ssified, pac am the Pri	kaged, mary
,	2. OR 344867-LF04     15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pl Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in Generator's/Offeror's Printed/Typed Name     Section 2015	oper condition for transport acc form to the terms of the attache	cording to applicable inte ed EPA Acknowledgment ge quantity generator) or Signature	mational and na of Consent. (b) (if I am a sn	ational governm nall quantity ge	ental regulations	nipping nam	e, and are cla nipment and I Mor	ssified, pac am the Pri	kaged, mary
	2. OR344667-LF04     15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pi Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in Generator's/Offeror's Printed/Typed Name     SFAW THEMC	oper condition for transport acc form to the terms of the attache	cording to applicable inte ed EPA Acknowledgment ge quantity generator) or	rnational and na of Consent. (b) (if I am a sn	ational governm	ental regulations	hipping nam	e, and are cla nipment and I Mor	ssified, pac am the Pri nth Da	kaged, nary y Year
	2. OR 344 667-LF04  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pl Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in Generator's/Offeror's Printed/Typed Name Generator's/Offeror's Printed/Typed Name Itemational Shipments Insporter Acknowledgment of Receiver of Materials Transporter 1 Printed/Typed Name	oper condition for transport acc form to the terms of the attache	cording to applicable inte d EPA Acknowledgment ge quantity generatory or Stgmature Export from U.S.	rnational and na of Consent. (b) (if I am a sn	ational governm nall quantity ge entry/exit:	ental regulations	lipping nam	And are clashipment and I	ssified, pac am the Prin nth Da 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	y Year y Year y Year
	2. OR 344 667-LF04  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pi Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in Generator's/Offeror's Printed/Typed Name  Generator's/Offeror's Printed/Typed Name  How Birch C  16. International Shipments  Import to U.S. Transporter Acknowledgment of Receipt Materials	oper condition for transport acc form to the terms of the attache	cording to applicable inte d EPA Acknowledgment ge quantity generator) or Strature	rnational and na of Consent. (b) (if I am a sn	ational governm nall quantity ge entry/exit:	ental regulations	lipping nam	e, and are cla hipment and I Mo	ssified, pac am the Prin nth Da 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	y Year y Year y Year
	2. OR 344 667-LF04  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby marked and labeled/placarded, and are in all respects in pi Exporter, I certify that the contents of this consignment con I certify that the waste minimization statement identified in Generator's/Offeror's Printed/Typed Name	oper condition for transport acc orm to the terms of the attache to CFR 262.27(a) (if I am a larg	Sording to applicable inte d EPA Acknowledgment ge quantity generator or Streature Export from U.S. Signature Signature	rnational and na of Consent. (b) (if I am a sn	all quantity ge	ental regulations	. If export sl	And are clashipment and I	ssified, pac am the Prin nth Da 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	y Year y Year 3 2 y Year 3 2 y Year y Year
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UI	VIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) 21. Generat		22. Page 2	23. Manifest Tracki	Fo ng Number	orm Approved. OMB No. 2050-0
24	Generator's Name CITY INVESTORS IX LLC	HQQQQ50132	of 2			019234592.UK
25.	Transporter _3_ Company Name COLUMBIA	RIDGE LANDFILL		U.S. E	PA ID Number	20987173457
26.	Transporter Company Name			U.S. E	PA ID Number	
27a HM	. 27b. U.S. DOT Description (including Proper Shipping Name, H and Packing Group (if any))	azard Class, ID Number,	28. Contain No.	ers 29. To Type Quant		
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lec	InsporterAcknowledgment of Receipt of Materials	Signature			0	Month Day Year
Dis	crepancy					
la	zardous Waste Report Management Method Codes (i.e., codes for	hazardous waste treatment, disposal, and recyc	ling systems)			
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NUNIMALANDOUS	1. Generator ID Number		3. Emergency Response	21-2362		0172220-	ESP1		
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Generator's Phone:	L WASTE MADAGEMENT	. IUC			U.S. EPA ID Nu	mber ORLOSS	152353		
7. Transporter 2 Company Name					U.S. EPA ID N	umber NEE2001	792910		
3. Designated Facility Name and	1 Site Address				U.S. EPA ID N	umber			-11
Facility's Phone:	17629 CED	WASTE MATAGE MR SPRIITOS LAT N OR 97912-9709	Æ			ORL/03	0152253		
9. Waste Shipping Name			10. Co No.	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.			
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NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Response	se Phone	4. Waste T	racking Nu	mber		
WASTE MANIFEST	WAHROON	50132	2		24-9300			LLC-922	D-ESPI	
5. Generator's Name and Mailin	ng Address			Generator's Site Addres		-	ess)			
	STLAKE AVENUE	NORTH			ERRY A					
SEATTLE	(206)342-2014				ILC, WA	80108				
Generator's Phone: 6. Transporter 1 Company Nam										
CHEMICA	L WASTE MANAG	BEMENT, INC				U.S. EPA ID		0894523	53	
7. Transporter 2 Company Nam						U.S. EPA ID			100	_
UPRR						U.S. EPA ID		0017929	10	
8. Designated Facility Name an						U.S. EPA ID			10	-
	COL	LUMBIA RIDGE I	LANDFILL							
10.3.4.30.4.2	181	77 CEDAR SPRI	NGS LAH	na Ag			ORD	2871734	157	
Facility's Phone:	2030 .994	LINGTON OR 97	812							
9. Waste Shipping Nam				10. Con	tainers	11. Total	12. Unit			
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NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Response	se Phone	4. Waste T	racking Nu	mber		
WASTE MANIFEST	WAHROON	50132	2		24-9300			LLC-922	D-ESPI	
5. Generator's Name and Mailin	ng Address			Generator's Site Addres		-	ess)			
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SEATTLE	(206)342-2014				ILC, WA	80108				
Generator's Phone: 6. Transporter 1 Company Nam										
CHEMICA	L WASTE MANAG	EMENT, INC				U.S. EPA ID		0894523	53	
7. Transporter 2 Company Nam						U.S. EPA ID			100	_
UPRR						U.S. EPA ID		0017929	10	
8. Designated Facility Name an						U.S. EPA ID			10	-
	COL	LUMBIA RIDGE I	LANDFILL							
10.3.4.30.4.2	181	77 CEDAR SPRI	NGS LAH	na Ag			ORD	2871734	157	
Facility's Phone:	2030 .994	LINGTON OR 97	812							
9. Waste Shipping Nam				10. Con	tainers	11. Total	12. Unit			
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I	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Respor	nse Phone	4. Waste T	racking Nur	nber		
١î	WASTE MANIFEST	<ul><li><i><i><i><i><i><i><i><i><i><i><i><i><i< th=""><th>2</th><th></th><th>121-9300</th><th></th><th></th><th>221-ESP1</th><th></th><th></th></i<></i></i></i></i></i></i></i></i></i></i></i></i></li></ul>	2		121-9300			221-ESP1		
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11		ĂŬŔŜTX LLO STLAFE AVENUE DORT	<b>L</b> I							
11	SEATTLE	571247-2 X&EDUE 110/X) 5424-08109 (205312-2614								
11	Generator's Phone:					U.S. EPA ID	Number			
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Ш	7. Transporter 2 Company Nam					U.S. EPA ID	Number			
Ш	1. Transporter 2 Company Nam	19				1	HEL	001792910	5	
П	8. Designated Facility Name an	d Site Address	and the second			U.S. EPA ID	Number			
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			MR SPRINGS LAH				ORD	937173451	9 1	
Ш	Facility's Phone:	ASUNGTO	11 OK 97812							
11				10. Cor	ntainers	11. Total	12. Unit			
Ш	9. Waste Shipping Name	and Description		No.	Туре	Quantity	Wt./Vol.			
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				Manifest Reference	e Number:				_	
È	17b. Alternate Facility (or Gener	ator)				U.S. EPA ID I	lumber	2		
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E E	Facility's Phone:	1. ( O	· · · · · · · · · · · · · · · · · · ·		-	1		Month	Day	Year
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DESIGNATED FACILITY										. 1
lī					지역의					
	18. Designated Facility Owner o	r Operator: Certification of receipt of materia	als covered by the manifest except	as noted in Item 17a						
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I	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Respor	nse Phone	4. Waste T	racking Nur	nber		
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	5. Generator's Name and Mailin	ng Address		Generator's Site Addre	ess (if different	than mailing addr	ess)			
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Generator's	Phone: er 1 Company Na		6-2014						U.S. EPA ID	Number		_
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		Name and Description	on				10. Cont	T	11. Total	12. Unit		
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	NON-HAZARDOUS	1. Generator ID Number	2. Page 1	of 3. Eme	ergency Respons	se Phone	4. Waste T	racking Num	ber	
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	5. Generator's Name and Maili	ing Address				-	t than mailing addr			
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	7. Transporter 2 Company Nar	me					U.S. EPA ID			_
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	8. Designated Facility Name and		REA REPORT OF MERIC				U.S. EPA ID	Number		
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	501915JL	2010 01015 01055	TOTE OR WRITE							
	Facility's Phone:				10. Con	tainers	11. Total	12. Unit		-
	9. Waste Shipping Nam	ne and Description			No.	Туре	Quantity	Wt./Vol.		
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	13. Special Handling Instruction	ons, and Additional Information								
	14. GENERATOR'S/OFFEROI marked and labeled/placar	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper co	that the contents of this consignment indition for transport according to app	t are fully a dicable inte	nd accurately de mational and na	escribed abov tional govern	e by the proper sh mental regulations	ipping name,	and are classified, packa	iged,
	Generator's/Offeror's Printed/T			Signature					Month Day	Year
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1	15. International Shipments	Import to U.S.	Export from	n 11 S	Port of e	entry/exit:				
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	16. Transporter Acknowledgme	ent of Receipt of Materials				- 10 - E				
	Transporter 1 Printed/Typed Na	ame		Signature	1	1			Month Day	Year
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	Transporter 2 Printed/Typed Na	ame	1	Signature					Month Day	Year
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l	17. Discrepancy 17a. Discrepancy Indication Sp			Г						
	Tra. Discrepancy indication op	Quantity	Туре	L	Residue		Partial Rej	ection	L Full Rejec	ction
				Mo	nifest Reference	Numbor				
	17b. Alternate Facility (or Gene	erator)		Mai	illest Helerence	Number:	U.S. EPA ID	Number		
	Facility's Phone:						1			
İ	17c. Signature of Alternate Fac	cility (or Generator)							Month Day	Year
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					d in them 47-			1000		
	18. Designated Facility Owner Printed/Typed Name	or Operator: Certification of receipt of m		ept as note Signature	u in item 17a				Month Day	Year
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NON-HAZARDOUS	1. Generator ID Number		12. Page 1 of 13 Er	namanay Passa	nco Dhore	A Wante	Tracking Num	Der	
WASTE MANIFEST	Wei 1000050	132	2. Page 1 of 3. Er		nse Phone 121-9306	1.00	Tracking Numi CILLC	42721-E	SF-1
5. Generator's Name and Mai	Ing Address		Gene	rator's Site Addr	ess (if differen	than mailing add	ress)		
1	THOUF ANTINUET	IORH1	(	いして	KKK	1-112 A 43	N.		
Generator's Phone:	(206)242-264199		- 1 <sup></sup>	1-457 (	EW	A 43	109		
6. Transporter 1 Company Na	ame					U.S. EPA ID			
	OF ANOTH MOTION	MEUL ING						30462353	
7. Transporter 2 Company Na UPDET2	ame					U.S. EPA ID	Number		
8. Designated Facility Name a	and Site Address							11792910	
	- OLU	MERARIDSELA				U.S. EPA ID	Number		
25315412.8	18177	CEDAR SERIER ISTON OR 9791					0809	7173157	
Facility's Phone:	2050 5010	RECEIPTION AND							
9. Waste Shipping Nan	ne and Description				ntainers	11. Total	12. Unit		
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13, Special Handling Instruction	R'S CERTIFICATION: Learchy deale	are that the contents of this of	onsignment are fully				II		
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<ol> <li>GENERATOR'S/OFFEROF marked and labeled/placarc</li> <li>Generator's/Offeror's Printed/Ty</li> <li>International Shipments</li> <li>Transporter Signature (for expo 16. Transporter Acknowledgment</li> </ol>	A'S CERTIFICATION: I hereby decla led, and are in all respects in proper rped Name Import to U.S. rts only):		Signature	Port of e	geronn	) by the proper sh nental regulations	ipping name, a		
<ol> <li>GENERATOR'S/OFFEROF marked and labeled/placarc</li> <li>Generator's/Offeror's Printed/Ty</li> <li>International Shipments</li> <li>Transporter Signature (for expo 16. Transporter Acknowledgment</li> </ol>	A'S CERTIFICATION: I hereby decla led, and are in all respects in proper rped Name Import to U.S. rts only):		Signature	Port of e	ntry/exit:	by the proper sh nental regulations	ipping name, a	Month	Day Y
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	8. Designated Facility Name and		REA REPORT OF MERIC				U.S. EPA ID	Number		
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	501915JL	2010 01015 01055	TOTE OR WRITE							
	Facility's Phone:				10. Con	tainers	11. Total	12. Unit		-
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	Transporter 2 Printed/Typed Na	ame	1	Signature					Month Day	Year
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	18. Designated Facility Owner Printed/Typed Name	or Operator: Certification of receipt of m		ept as note Signature	u in item 17a				Month Day	Year
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NON-HAZARDOUS WASTE MANIFEST	14/01-10001/5	0132	Genera	tor's Site Addres	s (if different t	han mailing addre	ess)		
i N and M	ailing Address			670 TE	RRYA	/E11			
5. Generators Hand	ESTORS IX LLC WESTLAKE AVENUE WA PD109 (200)242 2014	NODTH		SEATT	LE, WA	98109			
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NON-HAZARDOUS WASTE MANIFEST	2. Page 1 of 3. Emergency Response Phone			4. Waste	nber			
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NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number	and and a second second second second second second second second second second second second second second se	20. Page <sup>2</sup> of 2	21. Waste	Tracking Num		IIX71320-ESP1
2. Generator's Name CITY INVESTORS	IX L.L.C.						
3. Transporter Company Name COLI	JMBIA RIDGE LAND	FILL			U.S. EPA ID	NUORD	987173457
4. Transporter Company Name					U.S. EPA ID	Number	
25. Waste Shipping Name and Description			26. Contai No.	ners Type	27. Total Quantity	28. Unit Wt./Vol.	
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	HEET	Drum/Carton size Otv Truc Cl	CY BA 10 BA NH	TOTAL PIECES SHIPP 10		
	ALASKA STREET 10-DAY BILLING SPREADSHEET	Generator	CITY INVESTORS IX LLC			
	ALA	Exp. Date	5/1/2021			
	WMXU 970701	Profile #	AWARGUL			
	CONTAINER	Manifest #	1103-07011-010			
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WASTE MANAGEMENT	Arlingto	a Ridge edar Spri on, OR, 9 L) 454-20	7812	e		Reprin Ticket	ut # 637660
	020 Account W A (LF01-Ac	queous Ph	Vel Con Bi Man PO nase Trea	hicle# 970 ntainer 970 lling # 0 nifest atment Medi	701 701 002666 CIIX-71320 397-019 a - Carbon	and Sludge)	
Time In 07/18/2020 15:10 Out 07/20/2020 15:10 Comments 10 BAGS	:40 MANU	ale JAL WT	vmcki vmcki		Inbound	Gross Tare Net Tons	65920 lb* 50180 lb* 15740 lb 7.87
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
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NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of 3. Er	nergency Respons	se Phone	4. Waste Ti	racking Nu	mber
WASTE MANIFEST	N/A	2	(800)4	124-9300		C172	2220-ESP1
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	STORS IX LLC	., <u>1</u>		ERRY A			
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enerator's Phone: . Transporter 1 Company Na	(206)342-2614				U.S. EPA ID	Number	
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	CHEMICA	EWASTE MANAGEME	NT, INC.				
		DAR SPRINGS LANE			1	ORE	0089452353
acility's Phone.541)454	-2843 ARLINGTO	ON OR 97812-9708-					
9. Waste Shipping Nan	ne and Description		10. Con	1	11. Total	12. Unit	
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<ol> <li>Special Handling Instructic 1.115187WA-LF</li> </ol>	ons and Additional Information 01			1	INIV	'u (	2180203
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	NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet) 19. Generator ID N N/A	lumber	20. Page 2 of 2	21. Waste T	racking Num		CI72220-ESP1
	22. Generator's Name CITY INVESTORS IX LLC						
	2					Number	
	23. Transporter S Company Name COLUMBIA RID	GE LANDFILL			U.S. EPA ID	NUNORE	987173457
	24. Transporter Company Name				U.S. EPA ID	Number	
	25. Waste Shipping Name and Description		26. Contai No.		27. Total Quantity	28. Unit Wt./Vol.	
			INO.	Туре	Quantity	WI./VOI.	
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Customer Name CITY IN	VESTORS IX LLC CITY	IN Carrier T	RUCK		
Ticket Date 08/06/2	2020	Vehicle# 1		Volume	
Payment Type Credit	Account	Container			
Manual Ticket# 100693		Billing #	0002666		
Hauling Ticket#		Manifest	CI72220-ESE	21	
Destination CWM		PO	397-019		
	NA (LF01-Aqueous Pha	se Treatment Me		and Sludge)	
	TY INVESTORS IXLLC 5			5,	E AVE NORT
Time	Scale	Operator	Inbound	Gross	8300 lb*
In 08/06/2020 12:59		<b>-</b>		Tare	60 lb*
Out 08/06/2020 13:03				Net	8240 lb
040 00,00,2020 20 00		* Manual Weigh	+	Tons	4.12
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CITY INVESTORS IX I				ERRY A			
500-536 WESTLAKE A SEATTLE	VENUE NORTH	14	SEAL	TLE, WA	30108		
	A 98109 2-2614				U.S. EPA ID 1	Number	
6. Transporter 1 Company Name CHEMICAL WASTE	MANAGEMENT, INC.						089452353
7. Transporter 2 Company Name					U.S. EPA ID I	Number	
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8. Designated Facility Name and Site Address	COLUMBIA RIDGE				U.S. EPA ID I	Number	
	18177 CEDAR SPR					ORE	987173457
(541)454-2030 Facility's Phone:	ARLINGTON OR 9				1	UNL	1007110407
Facility's Phone:			10. Cont	tainers	11. Total	12. Unit	
9. Waste Shipping Name and Description			No.	Туре	Quantity	Wt./Vol.	
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NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number		20. Page <b>2</b> of 2	21. Waste	Tracking Num		IIXLLC-9220-SP1
2. Generator's Name CITY INVESTORS		and the second					
0							
3. Transporter Company Name COLI	JMBIA RIDGE LANDFI	L			U.S. EPA ID	Number ORD	987173457
4. Transporter Company Name		15			U.S. EPA ID	Number	
		A Star	26. Conta	iners	27. Total	28. Unit	
25. Waste Shipping Name and Description		. 935	No.	Туре	Quantity	Wt./Vol.	
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30. Transporter Acknowledgment of Receipt Printed/Typed Name	of Materials	Signature					Month Day Y
31. Transporter Acknowledgment of Receipt	of Matariale	1					
31. Transporter Acknowledgment of Receipt Printed/Typed Name		Signature		/			Month -Bay
32. Discreparicy	unung	-		~	)		
			7				
		-					

		Non-Hazard	lous W	/AM App	rova
Requested Management Facility: Columbia	Ridge Landfill				
Profile Number: 115187WA		Waste Acceptance Expi	iration Date: 05	/01/2021	
Common Name: LF01-Aqueous Phase Tre	atment Media - Ca	r WM Regulatory Volume	e Limit:		🖸 N/
APPROVAL DETAILS					
Approval Decision: 🗹 Approved 🛛 Not Ap	proved				
Management Method: Direct Landfill				Profile Renewal:	Yes 🗹 N
Generator Name: City Investors IX L.L	.c.				
Profile Expiration Date: 05/01/2021					
Periodic Testing Due Date:					
Other Due Date:		(Specify)			
Management Facility Precautions, Special Har					
Generator Conditions	•				
- Shall not contain free liquids					
- Shipment must be scheduled int	o the disposal fac	ility at least 24 hours	in advance.	Contact informa	tion will
- Shipment must be scheduled into be provided by your TSR.			in advance.	Contact informa	tion will
be provided by your TSR. - Waste manifest or applicable s	nipping document m	ust accompany load.	in advance.	Contact informa	tion will
be provided by your TSR.	nipping document m	ust accompany load.	in advance.	Contact informa	tion wil:
be provided by your TSR. - Waste manifest or applicable s	nipping document m	ust accompany load.	in advance.	Contact informa	tion wil:
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be provided by your TSR. - Waste manifest or applicable si - The waste profile number must a WM Authorization Name: Leslie Ficher	hipping document m appear on the ship	ust accompany load. ping papers. 	al Manager		
be provided by your TSR. - Waste manifest or applicable si - The waste profile number must a WM Authorization Name: Leslie Ficher WM Authorization Signature:	appear on the ship	ust accompany load. ping papers. 	<u>al Manager</u> Dat		
be provided by your TSR. - Waste manifest or applicable si - The waste profile number must a WM Authorization Name: Leslie Ficher	appear on the ship	ust accompany load. ping papers. 	r <mark>al Manager</mark> Dat		



EZ Profile™\*

Unsure Profile Number: 115187WA

Requested Facility: Columbia Ridge Landfill 🖬 Multiple Generator Locations (Attach Locations) 🔲 Request Certificate of Disposal 🔲 Renewal? Original Profile Number:

GENERATOR INFORMATION (MATERIAL ORIGIN)	
Generator Name: City Investors IX L.L.C.	
Site Address: 500-536 Westlake Avenue North	
(City, State, ZIP) Seattle WA 98109	
County: King	
Contact Name: Sean Biehl	
Email: SeanB@vulcan.com	
Phone: (206) 342-2614 7. Fax:	<b>1</b> N/A
Generator EPA ID:	<b>Y</b> N/A
State ID:	<b>1</b> N/A

#### C. MATERIAL INFORMATION

See Attache	ed
n a constructio . Sludge from	n
See Attach	ec
50	%
Į	

li.		50 %
	2. Sludge	
	3.	
1	4.	0.00/
	Total comp. must be equal to or greater than 100% ≥1	00%
2	State Waste Codes:	<b>1</b> N/A
	Color: black/brown	
1	Physical State at 70°F: ☑ Solid □ Liquid □ Other:	
5.	Physical State at 701. Solid State at to	<b>2</b> N//
	Free Liquid Range Percentage:to	21 N//
7.	pH:to	N
8	Strong Odor: 🗆 Yes 🗹 No Describe:	-
a	Flash Point: □ <140°F □ 140°-199°F □ ≥200°	<b>1</b> N//
э.		
E	ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	
	Analytical attached	🗹 Ye
10	Analytical attached	
ŝ	Please identify applicable samples and/or lab reports: Lab ID: 2001099-002, Carbon Lab ID: 2001099-001, Weir Slu	

B. BILLING INFORMATION	AS GENER	ATOR
1. Dilling Name: City Investors IX L.L.C.		
2. Billing Address: 505 5th Avenue South, Suite 900		
(City, State, ZIP) Seattle WA 98104		
3. Contact Name: Sean Biehl		
4. Email: SeanB@vulcan.com		
4. Email: Seanble Villanson           5. Phone: (206) 342-2614           6. Fax:		
7. WM Hauled?	🗹 Yes	🛛 No
7. WM Hauled? 8. P.O. Number: <u>397-019</u>		
9. Payment Method: 2 Credit Account Cash C	Credit Ca	rd
9. Payment Method: 2 Clean Account 2 Class		
D. REGULATORY INFORMATION		
1. EPA Hazardous Waste?	Yes*	🖬 No
Code:		<u></u>
2. State Hazardous Waste?	Yes	No No
Code:		
3. Is this material non-hazardous due to Treatment,	□ Yes*	🗹 No
Delisting, or an Exclusion?		
4. Contains Underlying Hazardous Constituents?	□ Yes*	1000
5. From an industry regulated under Benzene NESHAP?	□ Yes*	
6. Facility remediation subject to 40 CFR 63 GGGGG?	Yes*	
7. CERCLA or State-mandated clean-up?		
8. NRC or State-regulated radioactive or NORM waste?	ions and	
*If Yes, see Addendum (page 2) for additional quest		Z No
9. Contains PCBs? $\rightarrow$ If Yes, answer a, b and c.	Ves	
a. Regulated by 40 CFR 761?	I Yes	
b. Remediation under 40 CFR 761.61 (a)?		
c. Were PCB imported into the US?		
10. Regulated and/or Untreated Medical/Infectious Waste?	Yes	🗹 No
11. Contains Asbestos?	🛛 Yes	🗹 No
→ If Yes: □ Non-Friable □ Non-Friable - Regu	lated 🗆	Friable
F. SHIPPING AND DOT INFORMATION		
1. 🖵 One-Time Event 🛛 🗹 Repeat Event/Ongoing Busi	ness	
2. Estimated Quantity/Unit of Measure: 10		
🗹 Tons 🗆 Yards 🗖 Drums 🗖 Gallons 🗖 Othe	r:	
3. Container Type and Size: roll off bin		
4. USDOT Proper Shipping Name		A N/A

### G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

2. Other information attached (such as MSDS)?

GI SENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE) By signing this E2 Profile<sup>™</sup> form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

🛛 Yes

4. USDOT Proper Shipping Name:

I am an Authorized Agent signing on behalf of the confirmed with the Generator that information cont as supporting documents provided, are accurate a Name (Print): Suzy Stumpf Title: Senior Engineer	ained in this profile, as well	Certification Signature
Company: Farallon Consulting		
THINK GREEN:	QUESTIONS? CALL 800 963 4776 FOR ASSIS	TANCE Revised June 30, 2015 ©2015 Waste Management

### Wetherell, Ruben

From: Sent: To: Subject:

國社員

Dunlap, Dawn Monday, September 14, 2020 9:50 AM Wetherell, Ruben MANIFEST #CIIXLLC-9220-ESP1

Good morning Ruben,

We have 10bags up in drum building that go to you guy's Matt has weighed them and they are ready to go they where from the rail. The profile #is115187WA.

Thank you Dawn

Dawn Dunlap Operations Specialist Chemical Waste Management of the Northwest ddunlap@wm.com

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	1817 T Arli	mbia Ridge 77 Cedar Springs .ngton, OR, 9781 (541) 454-2030				Reprint Ticket#	650021
Customer Name C	ITY INVESTOR	RS IX LLC CITY I	N Carrier	970			
Ticket Date 09	9/16/2020		Vehicle#	970857		Volume	
Payment Type Ci	redit Accour	nt	Container	970857			
Manual Ticket# 1			Billing #	0002666	5		
Hauling Ticket#			Manifest	C11X	llc-9220	-espl	
Destination U	P/CUST		PO	397-0	019		
Profile 11	15187WA (LFC	)1-Aqueous Phase	e Treatment 1	Media - Ca	arbon and	d Sludge)	
Generator 16	68-CITY INVE	ESTORS IXLLC 500	) CITY INVES	FORS IX LI	LC 500-5	36 WESTLAKE	AVE NORT
Time			Operator	In		Gross	14060 lb*
In 09/04/2020		5	aday			Tare	20 lb*
Out 09/16/2020	11:15:26	5	aday		]	Net	14040 lb
		*	Manual Weig	ght	r	Fons	7.02
Comments							

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	Spwaste Solid Oth- EVF-P-Standard Env TRANS U SPW EA-TRA 10 DAY FEE SPW-10	100 100	10.00 10.00 10.00	% Each				WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of 3. Eme	raency Respon	Phone	4. Waste Ti	recking Nur	ESP
WASTE MANIFEST	N/A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	9
5. Generator's Name and Mail	iling Address		General	tor's Site Addres	ss (if different	0 t than mailing addre	ess)	2820-ESP1
	STORS IX LLC			670 T	ERRYA	AVE NORT		
SEATTLE	ESTLAKE AVENUE N	IORTH		SEAT	TLE, V	VA 98109		
Generator's Phone:	(206)342-2614							
6. Transporter 1 Company Nar	me					U.S. EPA ID I	Number	
CHEMICA	AL WASTE MANAGEN	MENT, INC.				1	ORD	089452353
7. Transporter 2 Company Nar	ne					U.S. EPA ID I		
UPRR B. Designated Facility Name ar							NED	001792910
3. Designated Facility Indirie ar						U.S. EPA ID I	Number	
Facility's Phon <b>(c541)454</b> -	18177	MBIA RIDGE LA CEDAR SPRING IGTON OR 9781	GS LANE			Ĩ	ORD	987173457
			2	10. Conta	toinors	11 Tabel	- 11-a	
9. Waste Shipping Nam	e and Description		ŀ	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	
	NOT REGULATED B			NO.	l yhe	Wanuty	VVL/VUL	
WINT LET COM	NUL REGULATED D	Y D.U.1.		11	BA	11.50	P	
			115187WA	11	there a	16,500		
2.			Holoriwa					
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3. Special Handling Instruction	Additional Information		<u>I</u>			L		
1,11,5187WA-LF0	u1.		free.				C	UMKU
4. GENERATOR'S/OFFEROF	R'S CERTIFICATION: I hereby declare	e that the contents of this co	nsignment are fully and	l accurately des	cribed above	by the proper ship	C	170208
4. GENERATOR'S/OFFEROP marked and labeled/placard	R'S CERTIFICATION: I hereby declare ded, and are in all respects in proper or	e that the contents of this co condition for transport accord	ding to applicable intern	J accurately des ational and nati	scribed above	by the proper ship vental regulations.	C	A TO 208 and are classified, packaged,
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NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet) 19. Generator ID Number N/A	A.C.	20. Page 2 of 2	21. Wast	te Tracking Num		CI102820-ESP1
22. Generator's Name CITY INVESTORS IX LLC						
23. Transporter Company Name COLUMBIA RIDGE L	ANDFILL	-		U.S. EPA IC	) Nurð <b>r</b> í	D987173457
24. Transporter Company Name				U.S. EPA ID		
25. Waste Shipping Name and Description		26. Contair No.	iners Type	27. Total Quantity	28. Unit Wt./Vol.	
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	- State	1				
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Special Handling Instructions and Additional Information						
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Discrepancy	136	elhre	4	102	5_	1 12DL

Columbia Ridge 18177 Cedar Springs Lane Arlington, OR, 97812 Ph: (541) 454-2030 Reprint Ticket# 66619	96
Customer Name CITY INVESTORS IX LLC CITY IN Carrier 970	
Ticket Date         11/20/2020         Vehicle#         970208         Volume	
Payment Type Credit Account Container 970208	
Manual Ticket# 0998905 Billing # 0002666	
Hauling Ticket# Manifest c1102820-esp1	
Destination UP/COW PO 397-019	
Profile 115187WA (LF01-Aqueous Phase Treatment Media - Carbon and Sludge)	
Generator 168-CITY INVESTORS IXLLC 500 CITY INVESTORS IX LLC 500-536 WESTLAKE AVE	NORT
In 11/12/2020 11:55:16 MANUAL WT jvaldez Tare 649	220 lb* 940 lb* 9280 lb 9.64

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
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				0 Dage 1 of 0	3. Emergency Response	Phone	4. Waste Trac	cking Numb	her	
	ON-HAZARDOUS	1. Generator ID Number			(000)4	0000 10		CILLC	111020-ESP1	-
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Ger	Inde Namo and Ma	ailing Address		,	870 T	FRRY A	E NORIF	4		
	CITV INN/F	SIORSIALLY			SEAT	TLE, WA	98109			10
	500-536 V	VESTI AKE AVE	NUENORIH	1					1	10
ene	SEATTLE	(206)342-28	614				U.S. EPA ID N	Number	089452353	
Tra	1 A manager N	lamo							008402303	
	CHEMIC	CAL WASTE MA	ANAGEMENT, INC				U.S. EPA ID N		001792910	
. Tr	ansporter 2 Company N	Name					U.S. EPA ID 1		001/82810	1.0
	UPRR esignated Facility Name	and Site Address		ŧ,			U.J. CFAIDI			
			COLUMBIA RIDO 18177 CEDAR S ARLINGTON OR	PRINGS LAN	E			ORD	987173457	
Fac	ility's Phone 541)45	54-2030	ANEINVIONION		10. Co	ontainers	11. Total	12. Unit		
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(Continu	uation Sheet)	WAH000050132						
	CITY INVESTORS					ILC EDAID	Number	
	0		L					987173457
		LUMBIA RIDGE LANDFILL				U.S. EPA ID	) Number	
4. Transporter	Company Name			26. Contai	iners	27. Total	28. Unit	
	pping Name and Description		_	26. Contai No.	Type	Quantity	Wt./Vol.	
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29. Special Hand								WWXU 970231
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32. Discrepancy								
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CAMI

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Quested Management Facility: Columbia Ridge Landfill		
questes	Waste Acceptance Expiration Da	te: 05/01/2021
rofile Number: <u>115187WA</u> Common Name: <u>LF01-Aqueous Phase Treatment Media - Car</u>	Waste Acceptance Expiration	U NA
Cl-Number: 115187WA	WM Regulatory Volume Limit	
rolle Nume: LF01-Aqueous Phase Treatment rev		Dite MNO
Common Nanite		Profile Renewal: 🛛 Yes 🗹 No
APPROVAL DETAILS		
Approval Decision: Approved LI Not Approved		
Approvement Method: <u>Direct Landfill</u> Generator Name: <u>City Investors IX L.L.C.</u>		
Concrator Name: City Investors In		
Date: 05/01/2021		
La Tastino Due Date:	(Specify)	
Other Due Date:		
Other Due Date: Management Facility Precautions, Special Handling Procedures or	Limitation on approval.	
Generator Conditions - Shall not contain free liquids. - Shipment must be scheduled into the disposal	a litte at least 24 hours in	advance. Contact information wi
- Shipment must be scheduled into the disposal	facility at lease 24	
mon		
and the shipping documer	ht must accompany route	
- Waste manifest of or a must appear on the s	snipping papers.	
• WM Authorization Name: Leslie Fichera	Title Waste Ameri	l Mara
WM Authorization Signature:	nue. <u>waste</u> Approva.	1 Manager
signature.		Date: <u>05/01/2020</u>
Agency Authorization (if Pageing A)		5400. 20/ 01/ 2020
Agency Authorization (if Required):		Date:

WASTE MANAGEMENT	Columbia Ridge 18177 Cedar Springs Arlington, OR, 9781 Ph: (541) 454-2030			Reprint Ticket#	665144
Customer Name CITY INV	ESTORS IX LLC CITY J	IN Carrier	970		
Ticket Date 11/20/20	20	Vehicle#	970231	Volume	
Payment Type Credit A	acount	Container	970231		
Manual Ticket# 0998788	1	Billing #	0002666		
Hauling Ticket#		Manifest	CILLC111020	)	
Destination UP/CWMNW		PO	397-019		
Profile 115187WA	(LF01-Aqueous Phase	e Treatment	Media - Carbon a	and Sludge)	
Generator 168-CITY	INVESTORS IXLLC 500	) CITY INVES	TORS IX LLC 500-	-536 WESTLAKE	AVE NORT
Time	Scale	Operator	Inbound	Gross	27020 lb*
In 11/12/2020 07:52:	18 MANUAL WT	jvaldez		Tare	20 lb*
Out 11/20/2020 07:52:	18	jvaldez		Net	27000 lb
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				1 K	2. Page 1 of 3. Emerg	ency Response F	hone	4. Waste Tra	king Numbe	ər
NON-HAZ	ARDOUS 1	. Generator ID Nun				(000)40/	0000		CI1122	21-ESP1
NASTE M.	ANIFEST	WAH	000050132		Generate	r's Site Address	(if different t	than mailing addres	ns)	
CIT	Name and Mailing	ORSIXLL	.C							×
500	0-536 WES	TI AKE AV	FNUE NOR	TH						
SE nerator's Ph	ATTLE	(206)342-	.98109 2614					U.S. EPA ID N		
	1 Company Name			NT INC						89452353
C	CHEMICAL	WASTE N	IANAGEME	NT, NVC.	A.			U.S. EPA ID		01792910
	2 Company Name JPRR	2			A BASE	1		U.S. EPA ID	Number	01/82810
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NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet) 19. Generator ID Number WAH000050132		20. Page <b>2</b> of 2	∠1. waste T	racking Number	CI	111221-ESP1
Generator's Name CITY INVESTORS IX LLC	1					
	- <u>74</u> J.s.			U.S. EPA ID	Number ORD9	987173457
	5.5			U.S. EPA ID N		
4. Transporter Company Name		26. Contain		27. Total	28. Unit	
25. Waste Shipping Name and Description		No.	Туре	Quantity	Wt./Vol.	
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32. Discrepancy						
				DESIGN		

WASTE MANAGEMENT	Arlingto			9		Reprint Ticket#	679551
	1 count (LF01-Ac	ueous Pl	Ver Cor Bil Mar PO nase Trea	nicle# 970 ntainer 970 Lling # 0 nifest atment Medi	980 980 002666 CI11221-ES 397-019 a - Carbon	Volume SPI and Sludge) -536 WESTLAKE	E AVE NORT
Time In 01/16/2021 12:51:22 Out 02/09/2021 12:51:22 Comments 4 BAGS		le AL WT	Opera jvalde jvalde * Manu	ez	Inbound	Gross Tare Net Tons	7220 lb* 20 lb* 7200 lb 3.60
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin

1	Spwaste Solid Oth-	100	4.00	Each	WA-SEATTLE
2	EVF-P-Standard Env	100		8	WA-SEATTLE
3	TRANS U SPW EA-TRA	100	4.00	Each	WA-SEATTLE
4	10 DAY FEE SPW-10	100	4.00	Each	WA-SEATTLE

	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID			2. Page 1 of 3. E	memency Resor	neo Phone	1		ESP
t	5. Generator's Name and Mai	W W	AH00005013	2	2		424-93(		e Tracking	
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	<ol><li>I ransporter 2 Company Nar</li></ol>	ne			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					RD089452353
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0	NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)	19. Generator ID Number WAH000050132		20. Page of 2	21. Was	te Tracking Nu	mber	CI32321-ESP1
	22. Generator's NameCITY INVESTORS	IX LLC						
2	3. Transporter Company Name	JMBIA RIDGE LAND	FILL			U.S. EPA I	D Nur@R	D987173457
24	4. Transporter Company Name					U.S. EPA I		
	25. Waste Shipping Name and Description			26. Cont	tainers	27. Total	28. Unit	
			5	No.	Туре	Quantity	Wt./Vol.	
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WASTE MANAGEMENT	Columbia 18177 Ce Arlingto Ph: (541	dar Spr n, OR,	97812	e		Reprint Ticket#	689506
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Time In 03/31/2021 12:34: Out 04/01/2021 12:34: Comments 12 BA-R/CF	26		jaday		Inbound	Gross Tare Net Tons	87240 lb* 64566 lb* 22674 lb 11.34
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin

1	Spwaste Solid Oth- 10	12.00	Each	WA-SEATTLE
2	EVF-P-Standard Env 10	00	8	WA-SEATTLE
3	TRANS U SPW EA-TRA 10	12.00	Each	WA-SEATTLE
4	10 DAY FEE SPW-10 10	12.00	Each	WA-SEATTLE

WASTE MANIFEST	1. Generator ID Number	00050132		mergency Response Phor		Tracking Num	ber
5. Generator's Name and Maili	Ing Address	10000132	2 Geno	(800)424-9 erator's Site Address (if dif	300	CILLO	C42821-ESP2
500-538 MAG	CTI AND AND		1	JO TEV	PLAI	dress)	
Generator's Phone	(208)3/2-28	109			FYTWE	N.	
			3	10 TER	WA 98	109	
7. Transporter 2 Company Nam	L WASTE MAN	AGEMENT, INC.			U.S. EPA I	D Number	)89452353
UPRR	le		4		U.S. EPA II		.00402303
8. Designated Facility Name and			1941				01792910
	C	OLUMBIA RIDGI	E LANDFILL		U.S. EPA I	O Number	
(541)454-2 Facility's Phone:	2030 A	8177 CEDAR SPI RLINGTON OR 9	RINGS LANE			ORD9	87173457
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22.	Generator's Name CITY INVESTORS	IX LLC	1	of 2				CILLC42821-ESP:
23. 1	Transporter_ Company Name COLL		de al					
	Fransporter Company Name	MIBIA RIDGE LANI	DFILL			U.S. EPA		D987173457
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WAST	E MANAGEMIN	-

## Chemical Waste Management Of The Northwest

17629 Cedar Springs Lane
 Arlington, Oregon 97812
 541-454-2643
 EPA I.D.# ORDO89452353

LOAD NO.

4

MANIFEST DOC. NO.

1924 16 1924 16

PM 05/10/2021 1272 15

PM 05/10/2021 1310 15

PM 05/10/2021 1652 15

PM 05/10/2021 1344 1b

PM 05/10/2021 1314 1b

PM 05/10/2021 1746 1b

PM 05/10/2021 1780 lb

PM 05/10/2021

GENERATOR\_

903-ARLINGTON\_OR



ALASKA STREET 10- DAY FACILITY ENVIRONMENTAL INSPECTION SHEET

970915

LOAD IN: ESPICUL	CONTAINER # WMXU	970915
INSPECTION DATE : 4/27/2/	PROCESS UNIT NAME: ES	
PROFILE (S) # / EXPIRATION DATE:		<u>1-CWM-10-DAY</u>
1. OP 115187 WH - 5	1/21	
2		
3		
4		
5		
6		

A. FREIGHT CONTAINER INSPECTION:

Check for any visible signs of leaks within the trailer

B. CONTAINERS / METAL / POLY/ DRUMS:

Check drum condition

Check for leaks

Check make sure bung caps are closed

Check for proper labeling / markings

Check for incompatible storage

# 10-DAY FACILITY CONTAINER (S) RECEIVED & INSPECTED

INSPECTION TIME	ITEM	ADDITIONAL INSPECTION NOTES	STATUS ACCEPTABLE	STATUS UNACCEPTABLE
	8- BA	Sack		UNACCEPTABLE

Discrepancy, specify reason :\_\_\_\_\_

ESP / CWM SIGNATURE : \_\_\_\_\_

WASTE MANAGEMENT	Columbia 18177 Ce Arlingto Ph: (541	dar Špri n, OR, 9	7812	2		Reprint Ticket#	694202
	1 count (LF01-Aq	ueous Ph	Veh Cor Bil Mar PO ase Trea	icle# 9 tainer 9 ling # ifest tment Me	970 970915 970915 0002666 CILLC42821 397-019 edia - Carbon DRS IX LLC 500	and Sludge)	e ave nort
Time In 05/04/2021 13:07:0 Out 05/11/2021 13:07:0 Comments 8 BAGS		le AL WT AL WT	Opera vmckin vmckin * Manu	ine	Inbound	Gross Tare Net Tons	12360 lb* 20 lb* 12340 lb 6.17
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4	Spwaste Solid Oth- EVF-P-Standard Env TRANS U SPW EA-TRA 10 DAY FEE SPW-10	100 100	8.00	Each % Each Each				WA-SEATTLE WA-SEATTLE WA-SEATTLE WA-SEATTLE

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500-536 W	COTI AKE AVENUE NO	RTH	1	SA	ATTL	EWH	7 981	09	
SEATTLE	(208)342-2614			2			U.S. EPA ID N		100450050
A Company M	<sup>ame</sup> AL WASTE MANAGEMI	ENT, INC.					U.S. EPA ID N		089452353
ransporter 2 Company N							0.3. EFAIDT		001792910
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esignated Facility Name	18177 C	BIA RIDGE LA CEDAR SPRING STON OR 9781	<b>3S LANE</b>					<del></del>	987173457
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NON-HAZARDOUS WASTE MANIFEST	19. Generator ID Number WAH000050132	20. Page <sup>2</sup> of 2	21. Waste T	Fracking Numbe	CI	ILLC42721-ESP1
(Continuation Sheet) Generator's Name CITY INVESTORS			-			
				U.S. EPA ID	Number D9	387173457
	JMBIA RIDGE LANDFILL			U.S. EPA ID		
4. Transporter Company Name		26. Contai	iners	27. Total	28. Unit	
25. Waste Shipping Name and Description		No.	Туре	Quantity	Wt./Vol.	
	1.5					
					_	6
29. Special Handling Instructions and Additional Info	formation					
				www	al-	980625
30. Transporter Acknowledgment of Receip Printed/Typed Name	pt of Materials	Signature				Month Day N
31. Transporter Acknowledgment of Receip Printed/Typed Name	pt of Materials	Signature				Month Day
32. Discrepancy						L

WASTE MANAGEMENT	Arlingto	a Ridge edar Spri on, OR, 9 1) 454-20	97812	e		Reprin Ticket	⊑ ⊭ 696936
	1 count (LF01-Ac	queous Pl	Ve Co Bi Ma PO nase Tre	hicle# ntainer lling # nifest atment M	980 980 980625 980625 0002666 CIllc42721 397-019 edia - Carbon ORS IX LLC 500	and Sludge)	KE AVE NORT
Time In 04/28/2021 08:10:4 Out 05/19/2021 08:10:4 Comments 18 BA		ale nt Scale	Oper jaday jaday * Man		Inbound ht	Gross Tare Net Tons	97340 lb* 64700 lb* 32640 lb 16.32
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin

PLO	luct	ш <b>0</b> %	QUY	0014	Kale	Iax	Allount	OLIGIII
1 2	Spwaste Solid Oth- EVF-P-Standard Env		18.00	Each				WA-SEATTLE
3 4	TRANS U SPW EA-TRA 10 DAY FEE SPW-10		$18.00 \\ 18.00$	Each Each				

CVMII

	1		2. Page 1 of 3. Emerg	ancy Response	Phone	4. Waste Tr	racking Nun	nber	
	1. Generator ID Number						C1913	21-ESP1	
NON-HAZARDOUS WASTE MANIFEST	100000000	132	2 Generato	or's Site Address	(if different th	han mailing addre	ess)		
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S. Generator S Ham Shi	ESTORS IX LLC	HORTH		SEATT	LE, WA	98109			
500-536	ESTORS IX LLC WESTLAKE AVENUE WA PD 109 E (208)242 2014					U.S. EPA ID N	Number		
SE ATTLE	E (206)242 2014							89452353	
Generator's Phone: 6. Transporter 1 Compar	NAME	EMENT, INC.				U.S. EPA ID N			
	III MI WY WAT						NEDO	01792010	
7. Transporter 2 Comp	any runne					U.S. EPA ID N	Number		2
UPE	Name and Site Address	EMICAL WASTEN	ANAGEMENT	r, 111C.				29452353	
8. Designated Facility	A - 7 C	OD CEDAR SPRII	100 64116			1	URUL	120428000	
		LINGTON OR 978	12-9709	10. Conta	ainers	11. Total	12. Unit		
Facility's Phone?.	11454-2045	-		No.	Туре	Quantity	Wt./Vol.		
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