APPENDIX B

ISOTEC SUMMARY REPORTS

REMEDIATION PROGRAM SUMMARY REPORT

FORMER AMERICAN LINEN FACILITY
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON

DECEMBER 2019

PREPARED FOR

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1.0 INTRODUCTION

In-Situ Oxidative Technologies, Inc. (ISOTEC) was retained by PES Environmental, Inc. (PES) to implement a remediation program utilizing in-situ chemical oxidation (ISCO) and in-situ bioremediation technologies at the Former American Linen Facility located in Seattle, Washington. The purpose of the remediation program was to address chlorinated volatile organic compounds (CVOCs), primarily tetrachloroethene (PCE), found in groundwater and soil at the site. Field activities associated with the remediation program were completed during three ISCO injection events from September 2018 to January 2019 and a single bioremediation event from February to March 2019. ISOTEC's patented modified Fenton's reagent (MFR) was the selected ISCO technology and consisted of the sequential injection of stabilized hydrogen peroxide and a neutral pH chelated iron solution. Enhanced reductive dechlorination (ERD) was the selected bioremediation technology and included the injection of a slow-release carbon substrate and bioaugmentation via injection of dechlorinating bacteria.

1.1 SITE-SPECIFIC CHARACTERIZATION

The remediation program was performed into four vertical treatment zones based on site characterization activities. Subsurface site characterization is described in detail in a remediation program work plan prepared by PES. The treatment zones identified in the work plan include:

- **Treatment Zone A (TZ-A).** This zone extends from elevation 0 to approximately elevation -10 feet (approximately 30 to 50 feet bgs) and is entirely within the Intermediate A water bearing zone that is characterized by silty sands.

- **Treatment Zone B (TZ-B).** This zone, extending from approximately elevations -10 to -25 feet (approximately 50 to 65 feet bgs), consists of the transition from the lower portion of the Intermediate A zone and the transition into the upper portion of the Intermediate B zone. Since the transition from the Intermediate A into the Intermediate B zone is not well defined, the geology is variable across the site and ranges from the silty sands to sandy silts, with interbeds present throughout.

- **Treatment Zone C (TZ-C).** This zone is entirely within the lower portion of the Intermediate B zone and extends from elevation -25 to -40 feet (approximately 65 to 80 feet bgs). The lower portion of the Intermediate B zone is characterized by very dense sandy silts with interbedded layers of silty sands.

- **Treatment Zone D (TZ-D).** Extending from elevations -40 to -55 feet (approximately 80 to 95 feet bgs), this zone covers the very bottom of the lower

Intermediate B unit down into the upper portion of the deep-water bearing zone. The deep-water bearing zone consists of dense fine to medium sand and silty sands.

1.2 REMEDIATION PROGRAM OBJECTIVE

The primary objectives of the remediation program were to significantly reduce contaminant mass within the lower portion of the Intermediate A water bearing zone (TZ-A and TZ-B) and the Intermediate B water bearing zone (TZ-B, TZ-C and TZ-D) prior to site development activities and to provide long-term treatment of residual contaminant mass following site development activities. A combined remediation approach that utilized ISCO and in-situ bioremediation technologies was selected to provide both aggressive short-term and persistent long-term mass reduction, respectively, at the site. MFR was the ISCO technology selected to aggressively address adsorbed phase and residual non-aqueous phase liquid (NAPL) mass at the site within a relatively short timeframe (i.e., multiple injection events over several months). Bioremediation via ERD was selected to provide persistent long-term mass reduction following site development activities.

1.3 REMEDIATION PROGRAM DESIGN

The remediation program was designed to target four treatment zones at the site (**Table 1**). These four zones include areas on the property with total CVOC concentrations in soil exceeding 0.5 mg/kg.

For delivery of reagents to the treatment zones a total of 157 injection wells were installed by PES. Injection wells were spaced approximately 25 feet apart in a grid-like pattern across the entire extent of the treatment area. The number of wells and the spacing between wells was based upon an anticipated 12.5-foot reagent distribution radius.

Each injection event was estimated to take approximately three weeks to complete. Once an injection event was complete, the next event was not to begin for approximately four weeks to allow for all reagents to be consumed and the subsurface treatment zone to return to background conditions. The ISCO portion of the remediation program was to include three injection events and estimated to take approximately five months to implement. Approximately four weeks after the third ISCO injection event, a single bioremediation injection event was proposed to be completed.

Table 1
Remediation Program Treatment Zones

Treatment Zone	**Approximate Area** (square feet)	**Number of Wells**	**Well ID**	**Approximate Interval** (feet bgs)
TZ-A	18,530	57	IW-1A to IW-58A	30 – 50 and 35 – 50
TZ-B	20,220	56	IW-1B to IW-56B	50 - 65
TZ-C	7,780	28	IW-1C to IW-28C	65 - 80
TZ-D	3,270	16	IW-1D to IW-16D	80 - 95

2.0 REMEDIATION PROGRAM FIELD PROCEDURES

Field activities associated with this remediation program were completed by ISOTEC during three ISCO injection events completed from September 2018 to January 2019 and a single bioremediation event completed from February to March 2019. The specific field activities completed include equipment mobilization and demobilization, chemical delivery and offload, reagent preparation, and reagent injections. These activities are described in detail in the following sections.

2.1 REAGENT PREPARATION - ISCO

ISCO reagents consisted of a neutral pH chelated ferrous iron solution (catalyst) and dilute stabilized hydrogen peroxide (oxidizer). These reagents were prepared using the following chemicals:

- 34% hydrogen peroxide (aqueous) – used to prepare oxidizer at injection concentrations ranging from 3 to 8%
- ISOTEC Stabilizer 0875 (granular solid) - inorganic salt used to prepare oxidizer
- ISOTEC Catalyst 4260 Component A (granular solid) - iron component used to prepare catalyst
- ISOTEC Catalyst 4260 Component B (granular solid) - chelating agent used to prepare catalyst

Hydrogen peroxide at a concentration of 34% was shipped directly to the site immediately prior to field injection activities and stored in Department of Transportation approved 55-gallon polyethylene drums. The 34% hydrogen peroxide was diluted to concentrations ranging from 3 to 8% in 300-gallon polyethylene bulk mixing tanks with water obtained from an on-site source. ISOTEC Stabilizer 0875 was added to the mixing tank during the dilution process.

ISOTEC's proprietary catalyst is a pH buffered (pH 7) ferrous iron complex. The catalyst components (Catalyst 4260 Component A and Catalyst 4260 Component B) were delivered to the site in 50-pound bags and mixed with water in 300-gallon polyethylene bulk mixing tanks.

2.2 INJECTION METHOD - ISCO

ISCO injections were completed using air-operated double-diaphragm pumps, flow meters, polyvinyl chloride (PVC) reinforced tubing, cam-lock valves & fittings and PVC wellhead assemblies. The wellhead assemblies, with pressure gauges and relief valves, were attached to the casing of each injection well. The wellhead assemblies were connected to a pneumatic diaphragm pump via PVC reinforced tubing and from the pump to either the oxidizer, catalyst or water tanks with additional PVC tubing.

Oxidizer, catalyst and water were conveyed through the PVC tubing by the pneumatic diaphragm pump with air supplied by a portable air compressor.

In general, the injection process was similar at each injection well and consisted of the following injection sequence:

1. Water
2. Iron Catalyst
3. Water flush to clear the injection equipment of catalyst
4. Oxidizer (stabilized hydrogen peroxide)
5. Water flush to clear the injection equipment of oxidizer.

Reagent volumes, flow rates, and injection pressures were monitored at regular intervals and recorded in a field log during the injection process at each injection well. Reagent volumes and flow rates were measured with battery-operated turbine flow meters/totalizers. Injection pressures were measured with pressure gauges attached to the wellhead assemblies. Injection field logs presenting injection flow rates and pressures at each injection well during the three ISCO injection events are provided within Tables 2 through 7.

2.3 REAGENT PREPARATION - BIOREMEDIATION

Bioremediation reagents consisted of carbon substrate electron donors, primarily emulsified vegetable oil (EVO), pH buffers, anoxic water, and dechlorinating bacteria. These reagents were prepared using the following chemicals:

- Small droplet EVO (aqueous, 60% soybean oil which also includes 5% sodium lactate, 5-15% emulsifiers, nutrients, and buffer) is a slow-release carbon substrate. EVO injection solutions were prepared at concentrations ranging from 10 to 20% soybean oil
    - 60% sodium lactate (aqueous) – additional sodium lactate as a quick-release carbon substrate was incorporated to accelerate the transition from the aerobic and high ORP conditions present after ISCO injections to the anaerobic and reducing conditions needed to support reductive chlorination
- Calcium bicarbonate (granular solid) – long-term pH buffer to maintain groundwater pH in a range favorable for dechlorinating bacteria
- Sodium bicarbonate (granular solid) – short-term pH buffer to maintain groundwater pH in a range favorable for dechlorinating bacteria
- Sodium ascorbate – used to prepare anoxic water

- KB1 Primer – used to prepare anoxic water
- Dehalococcoides culture – dechlorinating bacteria

Small droplet 60% EVO and 60% sodium lactate were shipped directly to the site immediately prior to field injection activities and stored in Department of Transportation approved 275-gallon polyethylene totes. Calcium bicarbonate and sodium bicarbonate were delivered to the site in 50-pound bags. The 60% EVO was diluted to injection concentrations ranging from 10 to 20% in 300-gallon polyethylene bulk mixing tanks with water obtained from an on-site source. Sodium lactate, calcium bicarbonate and sodium bicarbonate were added to the mixing tank at the appropriate quantities during the dilution process.

Similar to EVO preparation, anoxic water was prepared in 300-gallon bulk mixing tanks with an onsite water source. Sodium ascorbate and/or KB1 primer were used to prepare anoxic water. Dehalococcoides culture and anoxic water were injected concurrently during the bioaugmentation phase.

2.4 INJECTION METHOD - BIOREMEDIATION

Similar to the ISCO injections, bioremediation reagents were injected using air-operated double-diaphragm pumps, flow meters, polyvinyl chloride (PVC) reinforced tubing, cam-lock valves & fittings and PVC wellhead assemblies. The wellhead assemblies, with pressure gauges and relief valves, were attached to the casing of each injection well. The wellhead assemblies were connected to a pneumatic diaphragm pump via PVC reinforced tubing and from the pump to reagent mixing tanks. Reagents were conveyed through the PVC tubing by the pneumatic diaphragm pump with air supplied by a portable air compressor.

In general, the injection process was similar at each injection well. First, water was injected, followed by dilute EVO (during carbon substrate injection). EVO injection was generally performed in batches of 250 gallons into an injection well. The first 250-gallon batch at each well received additional sodium lactate as a quick-release carbon substrate.

Bioaugmentation, addition of dechlorinating bacteria cultures, was performed following injection of 75 to 90% of the proposed EVO volume at each injection well. *Dehalococcoides (DHC)* are the target dechlorinating bacteria, and these are anaerobic bacteria. Bioaugmentation at each well was performed using the following sequence:

1. Approximately 35 gallons of anoxic water to fill the injection well volume with deoxygenated water
2. Dechlorinating bacteria (DHC)

3. Approximately 35 gallons of anoxic water to chase the bacteria with deoxygenated water

A final water flush was performed to clear the injection equipment of reagent at the completion of injection at each well.

Reagent volumes, flow rates, and injection pressures were monitored at regular intervals and recorded in a field log during the injection process at each injection well. Reagent volumes and flow rates were measured with battery-operated turbine flow meters/totalizers. Injection pressures were measured with pressure gauges attached to the wellhead assemblies. Injection field logs presenting injection flow rates and pressures at each injection well during the bioremediation event are provided within Tables 8 and 9.

2.5 ISCO FIRST EVENT INJECTION ACTIVITIES

ISOTEC injected 75,282 gallons of reagent (catalyst and oxidizer combined) into 155 injection wells during 17 days of injection activities that began on September 13, 2018 and concluded on October 3, 2018. Reagent volumes, flow rates and injection pressures recorded during the first injection event are presented in **Tables 2 and 3**.

2.5.1 *Treatment Zone A*

ISOTEC injected 28,458 gallons of reagent (catalyst and oxidizer combined) into 56 TZ-A wells. The average volume of reagent injected into each of the wells was approximately 504 gallons (257 gallons of catalyst and 247 gallons of oxidizer). Surfacing of reagent occurred at 18 wells, which limited the total volume of reagent injected into the subsurface at each of these locations. Surfacing is described as the migration of gases, groundwater and/or reagent to the ground surface through natural or man-made conduits in the subsurface. When surfacing occurred, the injection process at the well observed to be surfacing was discontinued.

Reagent flow rates ranged from approximately 1.1 to 2.5 gallons per minute (gpm). Injection pressures ranged from approximately 2 to 100 pounds per square inch (psi) during injection activities.

2.5.2 *Treatment Zone B*

ISOTEC injected 27,812 gallons of reagent (catalyst and oxidizer combined) into 56 TZ-B wells. The average volume of reagent injected into each of the wells was approximately 497 gallons (253 gallons of catalyst and 252 gallons of oxidizer). Surfacing of reagent occurred at 11 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.4 to 2.7 gpm. Injection pressures ranged from approximately 10 to 100 psi during injection activities.

2.5.3 *Treatment Zone C*

ISOTEC injected 10,212 gallons of reagent (catalyst and oxidizer combined) into 28 TZ-C wells. The average volume of reagent injected into each of the wells was approximately 365 gallons (188 gallons of catalyst and 215 gallons of oxidizer). Surfacing of reagent occurred at 9 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.3 to 2.9 gpm. Injection pressures ranged from approximately 24 to 100 psi during injection activities.

2.5.4 *Treatment Zone D*

ISOTEC injected 8,800 gallons of reagent (catalyst and oxidizer combined) into 15 TZ-D wells. The average volume of reagent injected into each of the wells was approximately 587 gallons (293 gallons of catalyst and 293 gallons of oxidizer). Surfacing of reagent occurred at 1 well, which limited the total volume of reagent injected into the subsurface at this location.

Reagent flow rates ranged from approximately 1.0 to 2.5 gpm. Injection pressures ranged from approximately 10 to 100 psi during injection activities.

2.6 ISCO Second Event Injection Activities

ISOTEC injected 78,215 gallons of reagent (catalyst and oxidizer combined) into 157 injection wells during 15 days of injection activities that began on November 5, 2018 and concluded on December 1, 2018. Reagent volumes, flow rates and injection pressures recorded during the second injection event are presented in **Tables 4 and 5**.

2.6.1 *Treatment Zone A*

ISOTEC injected 28,565 gallons of reagent (catalyst and oxidizer combined) into 57 TZ-A wells. The average volume of reagent injected into each of the wells was approximately 514 gallons (257 gallons of catalyst and 257 gallons of oxidizer). Surfacing of reagent occurred at 19 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 1.5 to 2.8 gpm. Injection pressures ranged from approximately 0 to 100 psi during injection activities.

2.6.2 *Treatment Zone B*

ISOTEC injected 29,250 gallons of reagent (catalyst and oxidizer combined) into 56 TZ-B wells. The average volume of reagent injected into each of the wells was approximately 522 gallons (266 gallons of catalyst and 261 gallons of oxidizer). Surfacing of reagent occurred at 13 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.5 to 2.8 gpm. Injection pressures ranged from approximately 10 to 100 psi during injection activities.

2.6.3 *Treatment Zone C*

ISOTEC injected 11,075 gallons of reagent (catalyst and oxidizer combined) into 28 TZ-C wells. The average volume of reagent injected into each of the wells was approximately 396 gallons (204 gallons of catalyst and 214 gallons of oxidizer). Surfacing of reagent occurred at 7 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 1.0 to 2.9 gpm. Injection pressures ranged from approximately 14 to 100 psi during injection activities.

2.6.4 *Treatment Zone D*

ISOTEC injected 9,325 gallons of reagent (catalyst and oxidizer combined) into 16 TZ-D wells. The average volume of reagent injected into each of the wells was approximately 583 gallons (295 gallons of catalyst and 288 gallons of oxidizer). Surfacing of reagent occurred at 2 wells, which limited the total volume of reagent injected into the subsurface at these locations.

Reagent flow rates ranged from approximately 0.9 to 2.5 gpm. Injection pressures ranged from approximately 24 to 100 psi during injection activities.

2.7 ISCO Third Event Injection Activities

ISOTEC injected 75,755 gallons of reagent (catalyst and oxidizer combined) into 157 injection wells during 16 days of injection activities that began on December 18, 2018 and concluded on January 20, 2019. Reagent volumes, flow rates and injection pressures recorded during the third injection event are presented in **Tables 6 and 7**.

2.7.1 *Treatment Zone A*

ISOTEC injected 26,805 gallons of reagent (catalyst and oxidizer combined) into 57 TZ-A wells. The average volume of reagent injected into each of the wells was approximately 516 gallons (245 gallons of catalyst and 271 gallons of oxidizer). Surfacing of reagent occurred at 22 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 1.1 to 3.2 gpm. Injection pressures ranged from approximately 0 to 92 psi during injection activities.

2.7.2 *Treatment Zone B*

ISOTEC injected 27,730 gallons of reagent (catalyst and oxidizer combined) into 56 TZ-B wells. The average volume of reagent injected into each of the wells was approximately 495 gallons (255 gallons of catalyst and 259 gallons of oxidizer). Surfacing of reagent

occurred at 19 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.5 to 2.8 gpm. Injection pressures ranged from approximately 14 to 100 psi during injection activities.

2.7.3 *Treatment Zone C*

ISOTEC injected 11,290 gallons of reagent (catalyst and oxidizer combined) into 28 TZ-C wells. The average volume of reagent injected into each of the wells was approximately 403 gallons (222 gallons of catalyst and 221 gallons of oxidizer). Surfacing of reagent occurred at 8 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.7 to 2.5 gpm. Injection pressures ranged from approximately 0 to 100 psi during injection activities.

2.7.4 *Treatment Zone D*

ISOTEC injected 9,930 gallons of reagent (catalyst and oxidizer combined) into 16 TZ-D wells. The average volume of reagent injected into each of the wells was approximately 621 gallons (309 gallons of catalyst and 311 gallons of oxidizer). Surfacing of reagent occurred at 1 well, which limited the total volume of reagent injected into the subsurface at this location.

Reagent flow rates ranged from approximately 0.9 to 2.3 gpm. Injection pressures ranged from approximately 26 to 100 psi during injection activities.

2.8 Bioremediation Event Injection Activities

ISOTEC injected 124,905 gallons of EVO, 10,440 gallons of anoxic water and 225 liters of dechlorinating bacteria into 153 wells during 20 days of injection activities that began on February 12, 2019 and concluded on March 3, 2019. Additional sodium lactate was added to the first 250 gallons of EVO solution injected at each well. Bioaugmentation, which included injection of anoxic water and dechlorinating bacteria, was implemented after approximately 70 to 90% of the target EVO volume had been injected at each well. The remaining EVO volume was injected following bioaugmentation at each well. Reagent volumes, flow rates and injection pressures recorded during the bioaugmentation event are presented in **Tables 8 and 9**.

2.8.1 *Treatment Zone A*

ISOTEC injected 46,245 gallons of EVO, 3,570 gallons of anoxic water and 81 liters of dechlorinating bacteria into 56 TZ-A wells. The average volume of EVO, anoxic water, and dechlorinating bacteria injected each well was approximately 845 gallons, 81 gallons, and 1.2 liters, respectively. Surfacing of reagent occurred at 21 wells, which

limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 1.2 to 3.2 gpm. Injection pressures ranged from approximately 0 to 66 psi during injection activities.

2.8.2 *Treatment Zone B*

ISOTEC injected 45,970 gallons of EVO, 3,940 gallons of anoxic water and 93 liters of dechlorinating bacteria into 54 TZ-B wells. The average volume of EVO, anoxic water, and dechlorinating bacteria injected each well was approximately 851 gallons, 86 gallons, and 1.3 liters, respectively. Surfacing of reagent occurred at 17 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.7 to 3.4 gpm. Injection pressures ranged from approximately 0 to 86 psi during injection activities.

2.8.3 *Treatment Zone C*

ISOTEC injected 20,090 gallons of EVO, 1,560 gallons of anoxic water and 30 liters of dechlorinating bacteria into 27 TZ-C wells. The average volume of EVO, anoxic water, and dechlorinating bacteria injected each well was approximately 744 gallons, 82 gallons, and 0.9 liters, respectively. Surfacing of reagent occurred at 10 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 0.7 to 3.1 gpm. Injection pressures ranged from approximately 12 to 100 psi during injection activities.

2.8.4 *Treatment Zone D*

ISOTEC injected 12,600 gallons of EVO, 1,370 gallons of anoxic water and 21 liters of dechlorinating bacteria into 16 TZ-D wells. The average volume of EVO, anoxic water, and dechlorinating bacteria injected each well was approximately 845 gallons, 81 gallons, and 14 liters, respectively. Surfacing of reagent occurred at 2 wells, which limited the total volume of reagent injected into the subsurface at each of these locations.

Reagent flow rates ranged from approximately 1.4 to 3.2 gpm. Injection pressures ranged from approximately 4 to 100 psi during injection activities.

3.0 SUMMARY

This remediation summary report has detailed the field methods and procedures applied during three ISCO injection events and one bioremediation injection event at the Former American Linen Facility in Seattle, Washington. The injection events were

completed by ISOTEC as part of an ongoing ISCO remediation program initiated to address CVOC contamination found in soil and groundwater at the site.

3.1 SUMMARY OF FIELD ACTIVITIES

- Three ISCO injection events consisting of 48 days of injection activities were completed by ISOTEC from September 13, 2018 January 20, 2019. A single bioremediation event consisting of 20 injection days was completed from February 12 to March 3, 2019.
- Field activities completed by ISOTEC during each injection event included equipment mobilization and demobilization, chemical delivery and offload, reagent preparation, and reagent injections.
- Reagent injections were completed into four treatment zones covering approximately 49,800 square feet. The treatment zones encompassed areas of the site where concentrations of CVOCs in soil exceeded 0.5 mg/kg.
- Reagents were delivered into each treatment zone through 157 injection wells installed at the site prior to the start of the remediation program. The wells were screened from approximately 30 to 95 feet bgs and spaced approximately 25 feet apart in a grid-like pattern across the entire extent of the treatment area.
- ISOTEC injected approximately 229,252 gallons of ISCO reagent (catalyst and oxidizer combined) into the subsurface during three ISCO injection events. A total of 124,905 gallons of emulsified vegetable oil was injected during a single bioremediation injection event. Approximately 10,440 gallons of anoxic water and 225 liters of dechlorinating bacteria culture were injected during the bioaugmentation phase of the bioremediation event.

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/13/18	IW-47A	14:03	15:14	CAT		100	1.4	52	
09/13/18	IW-47A	15:25	16:25	H2O2	6%	36	0.6	90	
09/13/18	IW-44A	14:03	15:14	CAT		100	1.4	26	
09/13/18	IW-44A	15:19	16:20	H2O2	6%	100	1.6	68	
09/13/18	IW-3A	14:03	15:02	CAT		100	1.7	0	
09/13/18	IW-3A	15:07	16:11	H2O2	6%	100	1.6	20	
09/13/18	IW-8B	14:03	15:02	CAT		100	1.7	40	
09/13/18	IW-8B	15:07	16:04	H2O2	6%	100	1.8	50	
09/13/18	IW-8B	16:09	17:03	CAT		100	1.9	20	
09/13/18	IW-8B	17:08	17:57	H2O2	6%	100	2.0	28	
09/13/18	IW-3A	16:16	17:03	CAT		100	2.1	12	
09/13/18	IW-3A	17:08	17:57	H2O2	6%	100	2.0	14	
09/13/18	IW-44A	16:25	17:15	CAT		100	2.0	20	
09/13/18	IW-44A	17:20	18:01	H2O2	6%	100	2.4	18	surfaced 6 feet southeast
09/13/18	IW-49B	16:36	17:24	CAT		100	2.1	18	
09/13/18	IW-49B	17:29	18:14	H2O2	6%	100	2.2	14	
09/14/18	IW-49B	8:20	9:18	CAT		100	1.7	22	
09/14/18	IW-49B	9:23	10:19	H2O2	6%	100	1.8	20	
09/14/18	IW-51B	8:20	8:27	CAT		15	2.1	70	leaking wellhead; wellhead repaired
09/14/18	IW-3A	8:20	9:12	CAT		100	1.9	10	
09/14/18	IW-3A	9:17	10:13	H2O2	6%	100	1.8	22	
09/14/18	IW-8B	8:20	9:18	CAT		100	1.7	20	
09/14/18	IW-8B	9:23	10:13	H2O2	6%	100	2.0	8	
09/14/18	IW-43A	8:41	9:43	CAT		100	1.6	12	
09/14/18	IW-43A	9:48	11:28	H2O2	6%	100	1.0	78	
09/14/18	IW-2B	10:53	11:45	CAT		100	1.9	22	
09/14/18	IW-2B	11:50	12:39	H2O2	6%	100	2.0	28	
09/14/18	IW-5A	10:53	11:45	CAT		100	1.9	0	
09/14/18	IW-5A	11:50	12:39	H2O2	6%	100	2.0	12	
09/14/18	IW-51B	10:53	11:45	CAT		100	1.9	40	
09/14/18	IW-51B	11:50	12:46	H2O2	6%	100	1.8	48	
09/14/18	IW-50B	11:45	12:47	CAT		100	1.6	52	
09/14/18	IW-50B	12:52	13:34	H2O2	6%	100	2.4	52	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/14/18	IW-2B	12:44	13:33	CAT		100	2.0	18	
09/14/18	IW-2B	13:38	14:31	H2O2	6%	100	1.9	28	
09/14/18	IW-5A	12:44	13:33	CAT		100	2.0	30	
09/14/18	IW-5A	13:38	14:33	H2O2	6%	100	1.8	20	
09/14/18	IW-51B	12:51	13:33	CAT		100	2.4	24	
09/14/18	IW-51B	13:38	14:39	H2O2	6%	100	1.6	26	
09/14/18	IW-49B	14:04	14:54	CAT		100	2.0	26	
09/14/18	IW-49B	14:59	15:46	H2O2	6%	100	2.1	16	
09/14/18	IW-1B	14:52	15:37	CAT		100	2.2	10	
09/14/18	IW-1B	15:42	16:30	H2O2	6%	100	2.1	16	
09/14/18	IW-5B	14:52	15:37	CAT		100	2.2	14	
09/14/18	IW-5B	15:42	16:30	H2O2	6%	100	2.1	20	
09/14/18	IW-37A	14:52	15:46	CAT		100	1.9	16	
09/14/18	IW-37A	15:51	16:15	H2O2	6%	40	1.7	50	surfaced 5 feet southeast
09/14/18	IW-33A	16:06	16:52	CAT		100	2.2	16	
09/14/18	IW-33A	16:57	17:45	H2O2	6%	100	2.1	30	
09/15/18	IW-51B	7:43	8:34	CAT		100	2.0	20	
09/15/18	IW-51B	8:39	9:26	H2O2	6%	100	2.1	18	
09/15/18	IW-33A	7:43	8:30	CAT		100	2.1	10	
09/15/18	IW-33A	8:35	9:21	H2O2	6%	100	2.2	10	
09/15/18	IW-5A	7:43	8:30	CAT		100	2.1	4	
09/15/18	IW-5A	8:35	9:21	H2O2	6%	100	2.2	18	
09/15/18	IW-2B	7:43	8:28	CAT		100	2.2	20	
09/15/18	IW-2B	8:33	9:20	H2O2	6%	100	2.1	24	
09/15/18	IW-43A	9:41	10:34	CAT		100	1.9	42	
09/15/18	IW-43A	10:39	11:18	H2O2	6%	70	1.8	30	surfaced thru tubing at ERH well 12 feet north
09/15/18	IW-32B	9:41	10:34	CAT		100	1.9	70	
09/15/18	IW-32B	10:39	11:23	H2O2	6%	100	2.3	14	
09/15/18	IW-5B	9:41	10:27	CAT		100	2.2	22	
09/15/18	IW-5B	10:32	11:19	H2O2	6%	100	2.1	16	
09/15/18	IW-1B	9:41	10:29	CAT		100	2.1	12	
09/15/18	IW-1B	10:34	11:18	H2O2	6%	100	2.3	14	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/15/18	IW-46A	11:34	12:26	CAT		100	1.9	20	
09/15/18	IW-46A	12:31	13:32	H2O2	6%	100	1.6	84	
09/15/18	IW-35A	11:34	12:23	CAT		100	2.0	14	
09/15/18	IW-35A	12:28	13:43	H2O2	6%	100	1.3	24	
09/15/18	IW-8D	11:34	12:26	CAT		100	1.9	0	
09/15/18	IW-8D	12:31	13:21	H2O2	6%	100	2.0	0	
09/15/18	IW-34B	11:34	12:23	CAT		100	2.0	74	
09/15/18	IW-34B	12:28	12:45	H2O2	6%	35	2.1	58	surfaced thru tubing at ERH wells 6 feet north & 9 feet east
09/15/18	IW-17A	13:00	13:52	CAT		100	1.9	0	
09/15/18	IW-17A	13:57	14:51	H2O2	6%	100	1.9	10	
09/15/18	IW-15A	13:00	13:52	CAT		100	1.9	0	
09/15/18	IW-15A	13:57	14:51	H2O2	6%	100	1.9	15	
09/15/18	IW-35B	13:17	14:21	CAT		100	1.6	24	
09/15/18	IW-35B	14:26	15:47	H2O2	6%	100	1.2	50	
09/15/18	IW-8D	13:26	14:12	CAT		100	2.2	0	
09/15/18	IW-8D	14:26	15:21	H2O2	6%	100	1.8	10	
09/15/18	IW-39B	14:04	15:01	CAT		100	1.8	30	
09/15/18	IW-39B	15:06	15:55	H2O2	6%	100	2.0	30	
09/15/18	IW-33B	14:04	15:01	CAT		100	1.8	20	
09/15/18	IW-33B	15:06	15:59	H2O2	6%	100	1.9	22	
09/15/18	IW-7B	15:12	15:53	CAT		100	2.4	8	
09/15/18	IW-7B	15:58	16:48	H2O2	6%	100	2.0	16	
09/15/18	IW-15B	15:12	16:01	CAT		100	2.0	4	
09/15/18	IW-15B	16:06	16:54	H2O2	6%	100	2.1	14	
09/15/18	IW-4D	16:17	17:07	CAT		100	2.0	0	
09/15/18	IW-4D	17:12	18:02	H2O2	6%	100	2.0	14	
09/15/18	IW-44B	16:17	17:30	CAT		100	1.4	58	
09/15/18	IW-44B	17:35	18:02	H2O2	6%	50	1.9	60	
09/15/18	IW-30B	16:17	17:34	CAT		100	1.3	58	
09/15/18	IW-30B	17:39	18:00	H2O2	6%	50	2.4	4	
09/15/18	IW-50B	16:17	17:07	CAT		100	2.0	18	
09/15/18	IW-50B	17:12	18:02	H2O2	6%	100	2.0	8	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/16/18	IW-6A	7:38	8:17	CAT		100	2.6	0	
09/16/18	IW-6A	8:22	9:14	H2O2	6%	100	1.9	2	
09/16/18	IW-15B	7:38	8:17	CAT		100	2.6	8	
09/16/18	IW-15B	8:22	9:14	H2O2	6%	100	1.9	14	
09/16/18	IW-4D	7:38	8:45	CAT		100	1.5	24	
09/16/18	IW-4D	8:50	9:52	H2O2	6%	100	1.6	16	
09/16/18	IW-44B	7:38	8:34	CAT		100	1.8	32	
09/16/18	IW-44B	8:39	9:36	H2O2	6%	100	1.8	34	surfaced 12 feet northeast
09/16/18	IW-50B	7:39	8:28	H2O2	6%	100	2.0	16	
09/16/18	IW-50B	8:33	9:15	CAT		100	2.4	14	
09/16/18	IW-30B	7:39	8:28	H2O2	6%	100	2.0	10	
09/16/18	IW-30B	8:33	9:17	CAT		100	2.3	10	
09/16/18	IW-1B	9:41	10:18	CAT		100	2.7	12	
09/16/18	IW-1B	10:23	11:17	H2O2	6%	100	1.9	12	
09/16/18	IW-17A	9:41	10:18	CAT		100	2.7	4	
09/16/18	IW-17A	10:23	11:17	H2O2	6%	100	1.9	6	
09/16/18	IW-33B	9:41	10:26	CAT		100	2.2	22	
09/16/18	IW-33B	10:31	11:22	H2O2	6%	100	2.0	12	
09/16/18	IW-33A	9:41	10:26	CAT		100	2.2	16	
09/16/18	IW-33A	10:31	11:30	H2O2	6%	100	1.7	16	
09/16/18	IW-9D	10:31	11:17	CAT		100	2.2	0	
09/16/18	IW-9D	11:29	12:32	H2O2	6%	100	1.6	8	
09/16/18	IW-36B	10:31	10:37	CAT		7	1.2		surfaced thru steel pipe at ERH well 6 feet northwest
09/16/18	IW-35B	10:47	11:40	CAT		100	1.9	24	
09/16/18	IW-35B	11:45	12:00	H2O2	6%	20	1.3	46	surfaced thru steel pipe at ERH well 5 feet east
09/16/18	IW-15A	11:47	12:40	CAT		100	1.9	10	
09/16/18	IW-15A	12:45	13:40	H2O2	6%	100	1.8	16	
09/16/18	IW-4B	11:47	12:40	CAT		100	1.9	24	
09/16/18	IW-4B	12:45	13:40	H2O2	6%	100	1.8	20	
09/16/18	IW-46A	11:48	12:58	CAT		100	1.4	28	
09/16/18	IW-46A	13:03	14:00	H2O2	6%	100	1.8	38	

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Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
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Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/16/18	IW-32B	11:48	12:38	CAT		100	2.0	12	
09/16/18	IW-32B	12:43	13:36	H2O2	6%	100	1.9	24	
09/16/18	IW-18C	13:08	14:00	CAT		100	1.9	58	
09/16/18	IW-18C	14:05	15:08	H2O2	6%	100	1.6	56	
09/16/18	IW-21C	13:08	14:00	CAT		100	1.9	0	
09/16/18	IW-21C	14:05	15:37	H2O2	6%	100	1.1	68	
09/16/18	IW-7B	14:16	15:02	CAT		100	2.2	16	
09/16/18	IW-7B	15:07	15:57	H2O2	6%	100	2.0	14	
09/16/18	IW-6A	14:16	15:02	CAT		100	2.2	0	
09/16/18	IW-6A	15:07	15:59	H2O2	6%	100	1.9	0	
09/16/18	IW-21A	14:16	15:05	CAT		100	2.0	2	
09/16/18	IW-21A	15:10	16:21	H2O2	6%	100	1.4	0	
09/16/18	IW-3D	14:16	15:04	CAT		100	2.1	24	
09/16/18	IW-3D	15:09	16:09	H2O2	6%	100	1.7	90	
09/16/18	IW-14C	16:00	17:06	CAT		100	1.5	58	
09/16/18	IW-14C	17:11	18:03	H2O2	6%	100	1.9	66	
09/16/18	IW-15C	16:00	17:01	CAT		100	1.6	12	
09/16/18	IW-15C	17:11	18:04	H2O2	6%	50	0.9	44	
09/16/18	IW-14B	16:15	17:01	CAT		100	2.2	4	
09/16/18	IW-14B	17:06	17:56	H2O2	6%	100	2.0	14	
09/16/18	IW-2A	16:15	17:01	CAT		100	2.2	0	
09/16/18	IW-2A	17:06	17:56	H2O2	6%	100	2.0	10	
09/16/18	IW-30A	16:33	17:05	H2O2	6%	50	1.6	50	
09/16/18	IW-30A	17:10	17:36	CAT		50	1.9	16	
09/16/18	IW-26B	16:33	16:58	H2O2	6%	50	2.0	10	
09/16/18	IW-26B	17:03	17:28	CAT		50	2.0	12	
09/17/18	IW-4B	8:33	9:15	CAT		100	2.4	22	
09/17/18	IW-4B	9:20	10:07	H2O2	6%	100	2.1	18	
09/17/18	IW-9A	8:33	9:15	CAT		100	2.4	0	
09/17/18	IW-9A	9:20	10:07	H2O2	6%	100	2.1	22	
09/17/18	IW-5D	8:33	9:11	CAT		100	2.6	0	
09/17/18	IW-5D	9:16	9:40	H2O2	6%	25	1.0	100	100 psi after 25 gallons
09/17/18	IW-15C	8:33	9:19	H2O2	6%	50	1.1	60	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/17/18	IW-4D	9:49	10:37	CAT		100	2.1	24	
09/17/18	IW-4D	10:42	11:41	H2O2	6%	100	1.7	48	
09/17/18	IW-10D	9:49	10:37	CAT		100	2.1	0	
09/17/18	IW-10D	10:42	11:41	H2O2	6%	100	1.7	44	
09/17/18	IW-1A	10:23	11:07	CAT		100	2.3	0	
09/17/18	IW-1A	11:12	11:55	H2O2	6%	100	2.3	16	
09/17/18	IW-15B	10:23	11:07	CAT		100	2.3	14	
09/17/18	IW-15B	11:12	11:55	H2O2	6%	100	2.3	14	
09/17/18	IW-30A	12:00	12:42	CAT		100	2.4	8	
09/17/18	IW-30A	12:47	13:50	H2O2	6%	100	1.6	12	
09/17/18	IW-46A	12:00	12:47	CAT		100	2.1	22	
09/17/18	IW-46A	12:52	13:48	H2O2	6%	100	1.8	16	surfaced thru tubing in ERH well 18 feet west
09/17/18	IW-14B	12:23	13:05	CAT		100	2.4	20	
09/17/18	IW-14B	13:10	13:58	H2O2	6%	100	2.1	14	
09/17/18	IW-17A	12:23	13:05	CAT		100	2.4	2	
09/17/18	IW-17A	13:10	13:58	H2O2	6%	100	2.1	4	
09/17/18	IW-26B	14:16	15:00	CAT		100	2.3	16	
09/17/18	IW-26B	15:05	15:59	H2O2	6%	100	1.9	18	
09/17/18	IW-39B	14:16	15:00	CAT		100	2.3	16	
09/17/18	IW-39B	15:05	15:59	H2O2	6%	100	1.9	14	
09/17/18	IW-8A	14:21	15:05	CAT		100	2.3	0	
09/17/18	IW-8A	15:10	16:03	H2O2	6%	100	1.9	0	
09/17/18	IW-2A	14:21	15:05	CAT		100	2.3	8	
09/17/18	IW-2A	15:10	16:03	H2O2	6%	100	1.9	12	
09/17/18	IW-15A	14:26	17:16	CAT		100	0.6	14	
09/17/18	IW-15A	17:21	18:12	H2O2	6%	100	2.0	14	
09/17/18	IW-6A	14:26	17:16	CAT		100	0.6	0	
09/17/18	IW-6A	17:21	18:12	H2O2	6%	100	2.0	2	
09/17/18	IW-3D	14:26	17:15	CAT		100	0.6	34	
09/17/18	IW-3D	17:20	18:11	H2O2	6%	100	2.0	24	
09/17/18	IW-29A	14:26	17:15	CAT		100	0.6	40	
09/17/18	IW-29A	17:20	18:14	H2O2	6%	100	1.9	16	

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Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/18/18	IW-19C	8:17	9:47	CAT		100	1.1	84	
09/18/18	IW-19C	9:52	10:48	H2O2	3%	100	1.8	56	surfaced 12 feet southeast
09/18/18	IW-17C	8:17	9:49	CAT		100	1.1	84	
09/18/18	IW-17C	9:54	10:48	H2O2	3%	100	1.9	58	
09/18/18	IW-4B	8:17	9:41	CAT		100	1.2	22	
09/18/18	IW-4B	9:46	10:43	H2O2	3%	100	1.8	20	
09/18/18	IW-16A	8:17	9:41	CAT		100	1.2	12	
09/18/18	IW-16A	9:46	10:43	H2O2	3%	100	1.8	12	
09/18/18	IW-8A	11:08	11:46	CAT		100	2.6	2	
09/18/18	IW-8A	11:51	12:40	H2O2	3%	100	2.0	2	
09/18/18	IW-1A	11:08	11:46	CAT		100	2.6	2	
09/18/18	IW-1A	11:51	12:40	H2O2	3%	100	2.0	2	
09/18/18	IW-14C	11:13	12:11	CAT		100	1.7	38	
09/18/18	IW-14C	12:16	13:05	H2O2	3%	50	1.0	94	
09/18/18	IW-21C	11:13	12:02	CAT		100	2.0	36	
09/18/18	IW-21C	12:07	12:53	H2O2	3%	100	2.2	26	surfaced at ERH well 9 feet northwest
09/18/18	IW-14B	12:53	13:37	CAT		100	2.3	16	
09/18/18	IW-14B	13:42	14:33	H2O2	3%	100	2.0	18	
09/18/18	IW-2A	12:53	13:37	CAT		100	2.3	0	
09/18/18	IW-2A	13:42	14:33	H2O2	3%	100	2.0	12	
09/18/18	IW-36A	13:22	14:05	CAT		100	2.3	64	
09/18/18	IW-36A	14:10	14:22	H2O2	3%	20	1.7	20	surfaced 3 feet northwest
09/18/18	IW-39A	13:21	14:05	CAT		100	2.3	42	
09/18/18	IW-39A	14:10	15:04	H2O2	3%	100	1.9	14	
09/18/18	IW-26C	14:44	15:41	CAT		100	1.8	22	
09/18/18	IW-26C	15:46	16:39	H2O2	3%	50	0.9	80	
09/18/18	IW-21A	14:48	15:31	CAT		100	2.3	16	
09/18/18	IW-21A	15:36	16:27	H2O2	3%	100	2.0	20	
09/18/18	IW-7B	14:48	15:31	CAT		100	2.3	16	
09/18/18	IW-7B	15:36	16:27	H2O2	3%	100	2.0	10	
09/18/18	IW-20C	15:16	16:03	CAT		100	2.1	0	
09/18/18	IW-20C	16:08	17:11	H2O2	3%	100	1.6	8	
09/19/18	IW-21A	7:48	8:35	CAT		100	2.1	12	

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Daily Injection Summary
ISCO First Event
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Former American Linen Suppy
700 Dexter Avenue North
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/19/18	IW-21A	8:40	9:35	H2O2	3%	100	1.8	16	
09/19/18	IW-9A	7:48	8:35	CAT		100	2.1	12	
09/19/18	IW-9A	8:40	9:35	H2O2	3%	100	1.8	14	
09/19/18	IW-20C	7:51	8:35	CAT		100	2.3	24	
09/19/18	IW-20C	8:40	9:38	H2O2	3%	100	1.7	20	
09/19/18	IW-17C	7:51	8:52	CAT		100	1.6	60	
09/19/18	IW-17C	8:57	9:48	H2O2	3%	100	2.0	54	
09/19/18	IW-21B	10:11	10:55	CAT		100	2.3	8	
09/19/18	IW-21B	11:00	11:47	H2O2	3%	100	2.1	10	
09/19/18	IW-16A	10:11	10:55	CAT		100	2.3	0	
09/19/18	IW-16A	11:00	11:47	H2O2	3%	100	2.1	4	
09/19/18	IW-43B	10:26	11:34	CAT		100	1.5	44	
09/19/18	IW-43B	11:39	12:15	H2O2	3%	35	1.0	100	100 psi after 35 gallons
09/19/18	IW-38A	10:26	11:16	CAT		100	2.0	46	
09/19/18	IW-38A	11:21	12:18	H2O2	3%	85	1.5	44	surfaced 5 feet southwest
09/19/18	IW-26B	12:13	13:06	CAT		100	1.9	20	
09/19/18	IW-26B	13:18	14:06	H2O2	3%	100	2.1	22	
09/19/18	IW-53A	12:13	13:06	CAT		100	1.9	14	
09/19/18	IW-53A	13:18	14:06	H2O2	3%	100	2.1	26	
09/19/18	IW-29A	12:40	13:21	CAT		100	2.4	12	
09/19/18	IW-29A	13:26	14:21	H2O2	3%	100	1.8	14	
09/19/18	IW-39B	12:40	13:28	CAT		100	2.1	14	
09/19/18	IW-39B	13:33	14:29	H2O2	3%	100	1.8	20	
09/19/18	IW-8A	14:28	15:12	CAT		100	2.3	0	
09/19/18	IW-8A	15:17	16:12	H2O2	3%	100	1.8	4	
09/19/18	IW-1A	14:28	15:12	CAT		100	2.3	0	
09/19/18	IW-1A	15:17	16:12	H2O2	3%	100	1.8	12	
09/19/18	IW-32B	14:43	15:26	CAT		100	2.3	14	
09/19/18	IW-32B	15:31	16:25	H2O2	3%	100	1.9	26	
09/19/18	IW-3D	14:43	15:42	CAT		100	1.7	30	
09/19/18	IW-3D	15:47	16:49	H2O2	3%	100	1.6	34	
09/24/18	IW-53A	8:50	10:18	CAT		100	1.1	14	
09/24/18	IW-53A	10:35	11:27	H2O2	6%	100	1.9	38	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/24/18	IW-5B	8:50	10:18	CAT		100	1.1	10	
09/24/18	IW-5B	10:35	11:27	H2O2	6%	100	1.9	12	
09/24/18	IW-33B	8:50	10:27	CAT		100	1.0	20	
09/24/18	IW-33B	10:35	11:34	H2O2	6%	100	1.7	16	
09/24/18	IW-29A	8:50	10:16	CAT		100	1.2	8	
09/24/18	IW-29A	10:35	11:29	H2O2	6%	100	1.9	6	
09/24/18	IW-8D	10:29	11:08	CAT		100	2.6	0	
09/24/18	IW-8D	11:13	12:07	H2O2	6%	100	1.9	0	
09/24/18	IW-9D	10:20	11:10	CAT		100	2.0	0	
09/24/18	IW-9D	11:15	12:17	H2O2	6%	100	1.6	0	
09/24/18	IW-9B	11:56	12:42	CAT		100	2.2	28	
09/24/18	IW-9B	12:47	13:39	H2O2	6%	100	1.9	0	
09/24/18	IW-21B	11:56	12:42	CAT		100	2.2	0	
09/24/18	IW-21B	12:47	13:39	H2O2	6%	100	1.9	10	
09/24/18	IW-27A	11:56	12:51	CAT		100	1.8	20	
09/24/18	IW-27A	12:56	14:01	H2O2	6%	100	1.5	12	
09/24/18	IW-31B	11:56	12:51	CAT		100	1.8	30	
09/24/18	IW-31B	12:56	13:49	H2O2	6%	100	1.9	22	
09/24/18	IW-38B	12:47	13:46	CAT		100	1.7	50	
09/24/18	IW-38B	13:51	15:16	H2O2	6%	100	1.2	84	
09/24/18	IW-42B	12:47	13:44	CAT		100	1.8	60	
09/24/18	IW-42B	13:49	14:23	H2O2	6%	60	1.8	38	surfaced 15 feet northeast
09/24/18	IW-9A	13:54	14:38	CAT		100	2.3	8	
09/24/18	IW-9A	14:43	15:53	H2O2	6%	100	1.4	16	
09/24/18	IW-20B	13:54	14:38	CAT		100	2.3	8	
09/24/18	IW-20B	14:43	15:33	H2O2	6%	100	2.0	20	
09/24/18	IW-11D	14:11	15:11	CAT		100	1.7	16	
09/24/18	IW-11D	15:16	16:33	H2O2	6%	100	1.3	42	
09/24/18	IW-2D	14:11	14:59	CAT		100	2.1	0	
09/24/18	IW-2D	15:04	16:04	H2O2	6%	100	1.7	26	
09/24/18	IW-20C	14:53	15:47	CAT		100	1.9	20	
09/24/18	IW-20C	15:52	16:44	H2O2	6%	100	1.9	24	
09/24/18	IW-17C	15:23	16:18	CAT		100	1.8	52	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/24/18	IW-17C	16:23	17:08	H2O2	6%	100	2.2	44	
09/24/18	IW-3B	15:45	16:29	CAT		100	2.3	6	
09/24/18	IW-3B	16:34	17:16	H2O2	6%	100	2.4	6	
09/24/18	IW-11A	15:45	16:29	CAT		100	2.3	0	
09/24/18	IW-11A	16:34	17:16	H2O2	6%	100	2.4	8	
09/24/18	IW-25A	16:41	17:22	CAT		100	2.4	0	
09/24/18	IW-25A	17:27	18:22	H2O2	6%	100	1.8	8	
09/24/18	IW-30A	16:41	17:27	CAT		100	2.2	10	
09/24/18	IW-30A	17:32	18:29	H2O2	6%	100	1.8	8	
09/24/18	IW-16A	16:58	17:43	CAT		100	2.2	4	
09/24/18	IW-13C	17:30	18:13	CAT		100	2.3	98	surfaced at ERH well 4 feet southwest
09/25/18	IW-10A	7:50	8:31	CAT		100	2.4	0	
09/25/18	IW-10A	8:36	9:32	H2O2	6%	100	1.8	10	
09/25/18	IW-20A	7:50	8:31	CAT		100	2.4	0	
09/25/18	IW-20A	8:36	9:32	H2O2	6%	100	1.8	12	
09/25/18	IW-29B	7:50	8:33	CAT		100	2.3	28	
09/25/18	IW-29B	8:38	9:27	H2O2	6%	100	2.0	26	
09/25/18	IW-31B	7:50	8:40	CAT		100	2.0	8	
09/25/18	IW-31B	8:45	9:46	H2O2	6%	100	1.6	4	
09/25/18	IW-16A	7:52	8:47	H2O2	6%	100	1.8	0	
09/25/18	IW-13C	7:52	8:52	H2O2	6%	95	1.6	46	surfaced 12 feet south
09/25/18	IW-32A	9:01	9:52	CAT		100	2.0	34	
09/25/18	IW-32A	9:57	10:44	H2O2	6%	67	1.4	44	surfaced at ERH well (J-3)
09/25/18	IW-31A	9:01	9:56	CAT		100	1.8	90	
09/25/18	IW-31A	10:01	11:01	H2O2	6%	100	1.7		
09/25/18	IW-7C	9:59	10:57	CAT		100	1.7	84	
09/25/18	IW-7C	11:02	11:52	H2O2	6%	100	2.0	32	
09/25/18	IW-6C	9:59	10:42	CAT		100	2.3	22	
09/25/18	IW-6C	10:48	11:41	H2O2	6%	100	1.9	34	
09/25/18	IW-2D	9:59	11:01	CAT		100	1.6	44	
09/25/18	IW-2D	11:06	12:24	H2O2	6%	100	1.3	34	
09/25/18	IW-11D	9:59	11:01	CAT		100	1.6	42	
09/25/18	IW-11D	11:06	12:24	H2O2	6%	100	1.3	32	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/25/18	IW-45B	11:16	12:20	CAT		100	1.6	68	
09/25/18	IW-45B	12:25	12:46	H2O2	6%	30	1.4	100	100 psi after 30 gallons
09/25/18	IW-28B	11:16	12:06	CAT		100	2.0	30	
09/25/18	IW-28B	12:11	12:46	H2O2	6%	50	1.4	40	surfaced at ERH well 5 feet north (G-4)
09/25/18	IW-18B	12:05	12:50	CAT		100	2.2	26	
09/25/18	IW-18B	12:55	13:47	H2O2	6%	100	1.9	20	
09/25/18	IW-11B	12:05	12:50	CAT		100	2.2	8	
09/25/18	IW-11B	12:55	13:47	H2O2	6%	100	1.9	20	
09/25/18	IW-26A	12:41	13:28	CAT		100	2.1	16	
09/25/18	IW-26A	13:34	14:27	H2O2	6%	100	1.9	18	
09/25/18	IW-24A	12:41	13:24	CAT		100	2.3	4	
09/25/18	IW-24A	13:29	14:23	H2O2	6%	100	1.9	10	
09/25/18	IW-22B	13:09	14:02	CAT		100	1.9	20	
09/25/18	IW-22B	14:07	14:53	H2O2	6%	100	2.2	18	surfaced at ERH wells 6 feet south and 12 feet southwest
09/25/18	IW-53A	13:09	14:02	CAT		100	1.9	14	
09/25/18	IW-53A	14:07	14:58	H2O2	6%	100	2.0	24	
09/25/18	IW-27A	13:57	14:40	CAT		100	2.3	10	
09/25/18	IW-27A	14:45	15:36	H2O2	6%	100	2.0	14	
09/25/18	IW-13A	13:57	14:43	CAT		100	2.2	5	
09/25/18	IW-13A	14:48	15:40	H2O2	6%	100	1.9	16	
09/25/18	IW-57A	14:46	15:45	CAT		100	1.7	42	
09/25/18	IW-57A	15:50	16:54	H2O2	6%	95	1.5	72	surfaced at ERH well 3 feet northwest
09/25/18	IW-40A	14:46	15:36	CAT		100	2.0	0	
09/25/18	IW-40A	15:41	16:37	H2O2	6%	100	1.8	10	
09/25/18	IW-31A	15:17	16:03	CAT		100	2.2	20	
09/25/18	IW-31A	16:08	16:59	H2O2	6%	100	2.0	18	
09/25/18	IW-32A	15:17	16:03	CAT		100	2.2	18	
09/25/18	IW-32A	16:08	16:59	H2O2	6%	100	2.0	8	
09/25/18	IW-14A	15:58	16:39	CAT		100	2.4	0	
09/25/18	IW-14A	16:44	17:47	H2O2	6%	100	1.6	10	
09/25/18	IW-12A	15:58	16:37	CAT		100	2.6	2	
09/25/18	IW-12A	16:42	17:30	H2O2	6%	100	2.1	8	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/25/18	IW-18A	17:12	17:53	CAT		100	2.4	0	
09/25/18	IW-18A	17:58	18:50	H2O2	6%	100	1.9	0	
09/25/18	IW-35A	17:12	17:53	CAT		100	2.4	22	
09/25/18	IW-35A	17:58	18:12	H2O2	6%	25	1.8	30	surfaced 12 feet northeast
09/25/18	IW-50A	17:06	17:52	CAT		100	2.2	14	
09/25/18	IW-50A	17:48	18:32	H2O2	6%	50	1.1	18	
09/25/18	IW-15D	17:06	17:43	CAT		100	2.7	0	
09/25/18	IW-15D	17:48	18:43	H2O2	6%	100	1.8	10	
09/25/18	IW-7A	17:59	18:33	CAT		100	2.9	0	
09/25/18	IW-22A	17:59	18:33	CAT		100	2.9	0	
09/26/18	IW-7A	7:46	8:38	H2O2	6%	100	1.9	8	
09/26/18	IW-22A	7:46	8:44	H2O2	6%	100	1.7	12	
09/26/18	IW-17B	7:46	8:33	CAT		100	2.1	8	
09/26/18	IW-17B	8:38	9:38	H2O2	6%	100	1.7	8	
09/26/18	IW-37B	7:46	8:50	CAT		100	1.6	62	
09/26/18	IW-37B	8:55	9:36	H2O2	6%	75	1.8	48	surfaced 12 feet southwest
09/26/18	IW-51A	7:46	8:56	CAT		100	1.4	8	
09/26/18	IW-51A	9:01	9:57	H2O2	6%	70	1.3	26	surfaced
09/26/18	IW-41A	7:46	8:40	CAT		100	1.9	12	
09/26/18	IW-41A	8:45	9:47	H2O2	6%	100	1.6	48	
09/26/18	IW-12B	8:58	9:43	CAT		100	2.2	14	
09/26/18	IW-12B	9:48	10:37	H2O2	6%	100	2.0	10	
09/26/18	IW-25B	8:58	9:55	CAT		100	1.8	20	
09/26/18	IW-25B	10:00	11:06	H2O2	6%	100	1.5	68	
09/26/18	IW-31A	10:09	10:56	CAT		100	2.1	14	
09/26/18	IW-31A	11:01	12:01	H2O2	6%	100	1.7	20	
09/26/18	IW-7D	10:09	10:56	CAT		100	2.1	8	
09/26/18	IW-7D	11:01	11:53	H2O2	6%	100	1.9	0	
09/26/18	IW-56B	10:16	11:19	CAT		100	1.6	44	
09/26/18	IW-56B	11:24	12:55	H2O2	6%	100	1.1	60	
09/26/18	IW-46B	10:16	11:19	CAT		100	1.6	30	
09/26/18	IW-46B	11:24	12:38	H2O2	6%	100	1.4	70	
09/26/18	IW-14A	11:32	12:13	CAT		100	2.4	14	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/26/18	IW-14A	12:18	13:12	H2O2	6%	100	1.9	18	
09/26/18	IW-20A	11:32	12:13	CAT		100	2.4	12	
09/26/18	IW-20A	12:18	13:12	H2O2	6%	100	1.9	10	
09/26/18	IW-24C	12:19	12:29	CAT		4	0.4	100	100 psi after 4 gallons
09/26/18	IW-32A	12:19	13:06	CAT		100	2.1	8	
09/26/18	IW-32A	13:17	14:13	H2O2	6%	100	1.8	14	
09/26/18	IW-12C	12:39	13:32	CAT		100	1.9	80	
09/26/18	IW-12C	13:37	14:15	H2O2	6%	35	0.9	100	100 psi after 35 gallons
09/26/18	IW-42A	13:19	14:12	CAT		100	1.9	8	
09/26/18	IW-42A	14:17	15:23	H2O2	6%	100	1.5	24	
09/26/18	IW-41A	13:19	14:12	CAT		100	1.9	16	
09/26/18	IW-41A	14:17	15:11	H2O2	6%	100	1.9	18	
09/26/18	IW-11A	13:40	14:21	CAT		100	2.4	10	
09/26/18	IW-11A	14:26	15:14	H2O2	6%	100	2.1	14	
09/26/18	IW-28A	13:40	14:21	CAT		100	2.4	0	
09/26/18	IW-28A	14:26	15:14	H2O2	6%	100	2.1	20	
09/26/18	IW-23B	14:43	15:24	CAT		100	2.4	8	
09/26/18	IW-23B	15:29	16:30	H2O2	6%	100	1.6	20	
09/26/18	IW-16C	14:43	15:27	CAT		100	2.3	90	
09/26/18	IW-16C	15:32	16:07	H2O2	6%	85	2.4	30	surfaced 15 feet east
09/26/18	IW-4A	15:46	16:31	CAT		100	2.2	0	
09/26/18	IW-4A	16:36	17:30	H2O2	6%	100	1.9	0	
09/26/18	IW-13B	15:46	16:31	CAT		100	2.2	0	
09/26/18	IW-13B	16:36	17:30	H2O2	6%	100	1.9	16	
09/26/18	IW-45A	15:53	16:53	CAT		100	1.7	42	
09/26/18	IW-45A	16:58	17:57	H2O2	6%	100	1.7	50	surfaced 15 feet west
09/26/18	IW-50A	15:53	16:44	CAT		100	2.0	16	
09/26/18	IW-50A	16:49	17:14	H2O2	6%	45	1.8	10	surfaced 4 feet south
09/26/18	IW-16B	16:46	17:40	CAT		100	1.9	30	
09/26/18	IW-16B	17:45	18:36	H2O2	6%	100	2.0	20	
09/26/18	IW-6D	16:46	17:30	CAT		100	2.3	0	
09/26/18	IW-6D	17:35	18:25	H2O2	6%	100	2.0	2	
09/26/18	IW-10B	17:45	18:30	CAT		60	1.3	40	

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Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/26/18	IW-27B	17:45	18:33	CAT		100	2.1	8	
09/26/18	IW-15D	17:45	18:39	CAT		100	1.9	24	
09/27/18	IW-10B	7:50	8:17	CAT		50	1.9	24	
09/27/18	IW-10B	8:28	9:21	H2O2	6%	100	1.9	24	
09/27/18	IW-27B	7:50	9:17	H2O2	6%	100	1.1	80	
09/27/18	IW-27A	7:50	8:50	CAT		100	1.7	12	
09/27/18	IW-27A	8:55	10:19	H2O2	6%	100	1.2	20	
09/27/18	IW-34A	7:50	8:50	CAT		100	1.7	36	
09/27/18	IW-34A	8:55	10:22	H2O2	6%	100	1.1	34	
09/27/18	IW-15D	7:56	9:03	H2O2	6%	100	1.5	24	
09/27/18	IW-44A	7:56	8:44	H2O2	6%	80	1.7	10	surfaced 6 feet southeast
09/27/18	IW-10D	9:50	10:35	CAT		100	2.2	0	
09/27/18	IW-10D	10:40	11:40	H2O2	6%	100	1.7	2	
09/27/18	IW-48A	9:50	10:47	CAT		100	1.8	32	
09/27/18	IW-48A	10:52	11:42	H2O2	6%	50	1.0	100	100 psi after 50 gallons
09/27/18	IW-2C	9:59	10:42	CAT		100	2.3	24	
09/27/18	IW-2C	10:47	11:40	H2O2	6%	100	1.9	30	
09/27/18	IW-5C	9:59	10:42	CAT		100	2.3	30	
09/27/18	IW-5C	10:47	11:40	H2O2	6%	100	1.9	16	
09/27/18	IW-45B	10:42	12:15	CAT		100	1.1	84	
09/27/18	IW-45B	12:20	13:03	H2O2	6%	100	2.3	32	
09/27/18	IW-41B	10:42	11:33	CAT		100	2.0	66	
09/27/18	IW-41B	12:02	12:58	H2O2	6%	100	1.8	80	
09/27/18	IW-20B	12:20	13:05	CAT		100	2.2	26	
09/27/18	IW-20B	13:08	14:00	H2O2	6%	100	1.9	22	
09/27/18	IW-10B	12:20	13:05	CAT		100	2.2	18	
09/27/18	IW-10B	13:08	13:58	H2O2	6%	100	2.0	20	
09/27/18	IW-43B	12:20	12:50	CAT		50	1.7	80	
09/27/18	IW-43B	12:55	13:53	H2O2	6%	100	1.7	54	
09/27/18	IW-31B	12:20	12:58	CAT		100	2.6	12	
09/27/18	IW-31B	13:03	13:53	H2O2	6%	100	2.0	12	
09/27/18	IW-16B	13:40	14:26	H2O2	6%	100	2.2	10	
09/27/18	IW-29B	13:40	14:28	H2O2	6%	100	2.1	20	

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Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/27/18	IW-43B	13:58	14:32	CAT		50	1.5	28	
09/27/18	IW-4A	14:22	15:12	H2O2	6%	100	2.0	16	
09/27/18	IW-11A	14:22	15:12	H2O2	6%	100	2.0	10	
09/27/18	IW-38B	14:28	15:40	H2O2	6%	100	1.4	36	
09/28/18	IW-20B	7:55	8:49	H2O2	6%	100	1.9	28	
09/28/18	IW-20B	15:43	16:29	CAT		100	2.2	24	
09/28/18	IW-30B	7:55	8:49	H2O2	6%	100	1.9	16	
09/28/18	IW-30B	15:43	16:29	CAT		100	2.2	20	
09/28/18	IW-9D	7:55	8:49	H2O2	6%	100	1.9	2	
09/28/18	IW-9D	15:43	16:37	CAT		100	1.9	16	
09/28/18	IW-2D	7:55	8:59	H2O2	6%	100	1.6	60	
09/28/18	IW-2D	15:43	16:37	CAT		100	1.9	58	
09/28/18	IW-14A	7:55	8:47	H2O2	6%	100	1.9	14	
09/28/18	IW-14A	15:43	16:27	CAT		100	2.3	14	
09/28/18	IW-10B	7:55	8:47	H2O2	6%	100	1.9	20	
09/28/18	IW-10B	15:43	16:27	CAT		100	2.3	16	
09/28/18	IW-25B	9:17	10:09	H2O2	6%	100	1.9	14	
09/28/18	IW-25B	16:48	17:37	CAT		100	2.0	16	
09/28/18	IW-29B	9:17	10:09	H2O2	6%	100	1.9	24	
09/28/18	IW-29B	14:36	15:27	CAT		100	2.0	24	
09/28/18	IW-10D	9:17	10:14	H2O2	6%	100	1.8	30	
09/28/18	IW-10D	16:48	17:35	CAT		100	2.1	28	
09/28/18	IW-38B	9:17	10:14	H2O2	6%	100	1.8	22	
09/28/18	IW-38B	14:36	15:27	CAT		100	2.0	20	
09/28/18	IW-22A	9:17	10:03	H2O2	6%	100	2.2	6	
09/28/18	IW-22A	16:48	17:25	CAT		100	2.7	8	
09/28/18	IW-12A	9:17	10:03	H2O2	6%	100	2.2	8	
09/28/18	IW-12A	16:48	17:25	CAT		100	2.7	10	
09/28/18	IW-15C	10:35	12:12	H2O2	6%	100	1.0	12	
09/28/18	IW-15C	17:52	18:49	CAT		100	1.8	80	
09/28/18	IW-18C	10:35	10:45	H2O2	6%	100	10.0	36	
09/28/18	IW-18C	17:52	18:49	CAT		100	1.8	60	surfaced 20 feet east
09/28/18	IW-11A	14:36	15:16	CAT		100	2.5	10	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/28/18	IW-4A	14:36	15:16	CAT		100	2.5	12	
09/28/18	IW-16B	14:36	15:27	CAT		100	2.0	14	
09/28/18	IW-43B	14:36	15:27	CAT		100	2.0	32	
09/28/18	IW-29B	16:48	17:35	CAT		100	2.1	20	
09/28/18	IW-38B	16:48	17:37	CAT		100	2.0	16	
09/28/18	IW-28A	17:52	18:28	CAT		100	2.8	10	
09/28/18	IW-28A	18:33	19:17	H2O2	6%	100	2.3	10	
09/28/18	IW-7A	17:52	18:28	CAT		100	2.8	0	
09/28/18	IW-7A	18:33	19:17	H2O2	6%	100	2.3	0	
09/28/18	IW-6D	17:52	18:40	CAT		100	2.1	10	
09/28/18	IW-6D	18:45	19:22	H2O2	6%	100	2.7	12	
09/28/18	IW-43B	17:52	18:40	H2O2	6%	100	2.1	30	
09/29/18	IW-19A	7:44	8:24	CAT		100	2.5	8	
09/29/18	IW-19A	8:29	9:12	H2O2	6%	100	2.3	14	
09/29/18	IW-19B	7:44	8:24	CAT		100	2.5	22	
09/29/18	IW-19B	8:29	9:12	H2O2	6%	100	2.3	16	
09/29/18	IW-24B	7:44	8:24	CAT		100	2.5	24	
09/29/18	IW-24B	8:29	9:32	H2O2	6%	100	1.6	40	surfaced at ERH well 6 feet north
09/29/18	IW-56A	7:44	8:29	CAT		100	2.2	48	
09/29/18	IW-56A	8:34	9:15	H2O2	6%	50	1.2	80	
09/29/18	IW-6B	7:49	8:34	H2O2	6%	100	2.2	8	
09/29/18	IW-6B	8:39	9:17	CAT		100	2.6	14	
09/29/18	IW-1C	7:46	8:18	H2O2	6%	100	3.1	28	
09/29/18	IW-1C	8:23	9:04	CAT		100	2.4	12	
09/29/18	IW-7A	9:24	9:59	CAT		100	2.9	10	
09/29/18	IW-7A	10:04	10:46	H2O2	6%	100	2.4	12	
09/29/18	IW-4A	9:24	9:59	CAT		100	2.9	6	
09/29/18	IW-4A	10:04	10:46	H2O2	6%	100	2.4	14	
09/29/18	IW-1D	9:24	10:08	CAT		100	2.3	10	
09/29/18	IW-1D	10:13	11:19	H2O2	6%	100	1.5	20	
09/29/18	IW-53B	9:24	10:14	CAT		100	2.0	90	
09/29/18	IW-53B	10:19	10:59	H2O2	6%	50	1.3	100	100 psi after 50 gallons
09/29/18	IW-9C	10:04	10:52	CAT		100	2.1	82	surfaced at ERH well 6 feet north

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/29/18	IW-9C	10:57	11:50	H2O2	6%	100	1.9	26	
09/29/18	IW-25C	10:04	10:54	CAT		100	2.0	95	
09/29/18	IW-25C	10:59	11:39	H2O2	6%	100	2.5	24	
09/29/18	IW-12A	11:04	11:40	CAT		100	2.8	8	
09/29/18	IW-12A	11:45	12:28	H2O2	6%	100	2.3	10	
09/29/18	IW-10A	11:04	11:40	CAT		100	2.8	4	
09/29/18	IW-10A	11:45	12:28	H2O2	6%	100	2.3	10	
09/29/18	IW-24A	11:28	12:13	CAT		100	2.2	2	
09/29/18	IW-24A	12:18	13:10	H2O2	6%	100	1.9	0	
09/29/18	IW-19A	11:14	12:00	CAT		100	2.2	12	
09/29/18	IW-19A	12:05	12:50	H2O2	6%	100	2.2	18	
09/29/18	IW-39A	12:00	12:41	CAT		100	2.4	16	surfaced 12 feet northeast
09/29/18	IW-34A	11:49	12:30	CAT		100	2.4	24	
09/29/18	IW-34A	12:35	12:46	H2O2	6%	25	2.3	25	surfaced 4 feet south
09/29/18	IW-13A	12:35	13:12	CAT		100	2.7	0	
09/29/18	IW-13A	13:17	14:01	H2O2	6%	100	2.3	6	
09/29/18	IW-10A	12:35	13:12	CAT		100	2.7	10	
09/29/18	IW-10A	13:17	14:01	H2O2	6%	100	2.3	14	
09/29/18	IW-7D	12:59	13:44	CAT		100	2.2	24	
09/29/18	IW-7D	13:49	14:37	H2O2	6%	100	2.1	16	
09/29/18	IW-41B	12:59	14:09	CAT		100	1.4	54	
09/29/18	IW-41B	14:14	15:41	H2O2	6%	100	1.1	56	
09/29/18	IW-19A	12:59	13:44	CAT		100	2.2	18	
09/29/18	IW-19A	13:49	14:38	H2O2	6%	100	2.0	18	
09/29/18	IW-24A	13:15	14:08	CAT		100	1.9	10	
09/29/18	IW-24A	14:13	15:10	H2O2	6%	100	1.8	16	
09/29/18	IW-13A	14:18	15:00	CAT		100	2.4	12	
09/29/18	IW-13A	15:05	15:51	H2O2	6%	100	2.2	16	
09/29/18	IW-22A	14:18	15:00	CAT		100	2.4	8	
09/29/18	IW-22A	15:05	15:53	H2O2	6%	100	2.1	8	
09/29/18	IW-7D	14:42	15:26	CAT		100	2.3	10	
09/29/18	IW-7D	15:31	16:21	H2O2	6%	100	2.0	12	
09/29/18	IW-28A	14:50	15:34	CAT		100	2.3	10	

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Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/29/18	IW-28A	15:39	16:29	H2O2	6%	100	2.0	12	
09/29/18	IW-25A	15:48	16:30	CAT		100	2.4	12	
09/29/18	IW-25A	16:35	17:18	H2O2	6%	100	2.3	10	
09/29/18	IW-26A	16:04	16:45	CAT		100	2.4	22	
09/29/18	IW-26A	16:50	17:29	H2O2	6%	100	2.6	16	
09/29/18	IW-3B	16:04	16:45	CAT		100	2.4	8	
09/29/18	IW-3B	16:50	17:29	H2O2	6%	100	2.6	8	
09/29/18	IW-18A	16:30	17:14	CAT		100	2.3	0	
09/29/18	IW-18A	17:19	18:06	H2O2	6%	100	2.1	10	
09/29/18	IW-20A	16:36	17:24	CAT		100	2.1	0	
09/29/18	IW-20A	17:29	18:09	H2O2	6%	100	2.5	8	
09/29/18	IW-9B	17:17	17:59	CAT		100	2.4	6	
09/29/18	IW-9B	18:04	18:49	H2O2	6%	100	2.2	10	
09/29/18	IW-25A	17:23	18:03	CAT		100	2.5	10	
09/29/18	IW-25A	18:08	18:47	H2O2	6%	100	2.6	12	
09/29/18	IW-26A	17:34	18:11	CAT		100	2.7	10	
09/29/18	IW-26A	18:16	18:51	H2O2	6%	100	2.9	10	
09/29/18	IW-3B	17:34	18:11	CAT		100	2.7	10	
09/29/18	IW-3B	18:16	18:51	H2O2	6%	100	2.9	12	
09/29/18	IW-18A	18:11	18:27	CAT		50	3.1	8	
09/29/18	IW-18A	18:32	18:50	H2O2	6%	50	2.8	8	
09/30/18	IW-9B	7:36	8:18	CAT		100	2.4	10	
09/30/18	IW-9B	8:23	9:09	H2O2	6%	100	2.2	10	
09/30/18	IW-21B	7:36	8:11	CAT		100	2.9	6	
09/30/18	IW-21B	8:16	9:02	H2O2	6%	100	2.2	8	
09/30/18	IW-6B	7:36	8:09	CAT		100	3.0	12	
09/30/18	IW-6B	8:14	8:52	H2O2	6%	100	2.6	16	
09/30/18	IW-11B	7:36	8:09	CAT		100	3.0	8	
09/30/18	IW-11B	8:14	8:52	H2O2	6%	100	2.6	10	
09/30/18	IW-16B	8:12	8:49	CAT		100	2.7	6	
09/30/18	IW-16B	8:54	9:33	H2O2	6%	100	2.6	8	
09/30/18	IW-25B	8:12	8:47	CAT		100	2.9	8	
09/30/18	IW-25B	8:52	9:32	H2O2	6%	100	2.5	12	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/30/18	IW-6B	8:57	9:33	CAT		100	2.8	14	
09/30/18	IW-6B	9:38	10:15	H2O2	6%	100	2.7	14	
09/30/18	IW-11B	8:57	9:33	CAT		100	2.8	10	
09/30/18	IW-11B	9:38	10:15	H2O2	6%	100	2.7	12	
09/30/18	IW-27B	9:16	9:55	CAT		100	2.6	20	
09/30/18	IW-27B	10:00	10:34	H2O2	6%	100	2.9	10	
09/30/18	IW-1D	9:16	9:58	CAT		100	2.4	28	
09/30/18	IW-1D	9:58	10:42	H2O2	6%	100	2.3	30	
09/30/18	IW-15D	9:49	10:25	CAT		100	2.8	28	
09/30/18	IW-15D	10:30	11:09	H2O2	6%	100	2.6	30	
09/30/18	IW-6D	9:49	10:21	CAT		100	3.1	0	
09/30/18	IW-6D	10:26	11:01	H2O2	6%	100	2.9	0	
09/30/18	IW-13B	10:21	10:57	CAT		100	2.8	14	
09/30/18	IW-13B	11:02	11:38	H2O2	6%	100	2.8	10	
09/30/18	IW-19B	10:21	10:57	CAT		100	2.8	30	
09/30/18	IW-19B	11:02	11:38	H2O2	6%	100	2.8	20	
09/30/18	IW-27B	10:39	11:17	CAT		100	2.6	14	
09/30/18	IW-27B	11:22	11:57	H2O2	6%	100	2.9	14	
09/30/18	IW-1D	10:47	11:24	CAT		100	2.7	30	
09/30/18	IW-1D	11:20	12:15	H2O2	6%	100	1.8	24	
09/30/18	IW-15C	11:10	11:39	CAT		50	1.7	58	
09/30/18	IW-15C	11:44	12:23	H2O2	6%	50	1.3	86	
09/30/18	IW-40A	11:17	11:55	CAT		100	2.6	10	
09/30/18	IW-40A	12:00	12:42	H2O2	6%	100	2.4	10	
09/30/18	IW-13B	11:43	12:18	CAT		100	2.9	12	
09/30/18	IW-13B	12:23	13:00	H2O2	6%	100	2.7	14	
09/30/18	IW-19B	11:43	12:18	CAT		100	2.9	14	
09/30/18	IW-19B	12:23	13:00	H2O2	6%	100	2.7	16	
09/30/18	IW-12B	12:05	12:40	CAT		100	2.9	6	
09/30/18	IW-12B	12:45	13:22	H2O2	6%	100	2.7	4	
09/30/18	IW-17B	12:23	13:00	CAT		100	2.7	2	
09/30/18	IW-17B	13:05	13:45	H2O2	6%	100	2.5	2	
09/30/18	IW-14C	12:36	13:02	CAT		50	1.9	38	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/30/18	IW-14C	13:07	13:51	H2O2	6%	100	2.3	38	surfaced 9 feet southeast near ERH well
09/30/18	IW-40A	12:47	13:28	CAT		100	2.4	10	
09/30/18	IW-40A	13:33	14:13	H2O2	6%	100	2.5	20	
09/30/18	IW-1C	13:09	13:43	CAT		100	2.9	12	
09/30/18	IW-1C	13:48	14:23	H2O2	6%	100	2.9	10	
09/30/18	IW-5C	13:09	13:43	CAT		100	2.9	14	
09/30/18	IW-5C	13:48	14:23	H2O2	6%	100	2.9	14	
09/30/18	IW-12B	13:27	14:02	CAT		100	2.9	4	
09/30/18	IW-12B	14:07	14:45	H2O2	6%	100	2.6	4	
09/30/18	IW-17B	13:50	14:32	CAT		100	2.4	12	
09/30/18	IW-17B	14:37	15:26	H2O2	6%	100	2.0	8	
09/30/18	IW-25C	14:01	14:49	CAT		100	2.1	28	surfaced 9 feet northwest
09/30/18	IW-41A	14:18	15:03	CAT		100	2.2	12	
09/30/18	IW-41A	15:08	15:46	H2O2	6%	100	2.6	10	
09/30/18	IW-1C	14:28	15:07	CAT		100	2.6	12	
09/30/18	IW-1C	15:12	15:49	H2O2	6%	100	2.7	12	
09/30/18	IW-5C	14:28	15:07	CAT		100	2.6	16	
09/30/18	IW-5C	15:12	15:49	H2O2	6%	100	2.7	16	
09/30/18	IW-18B	15:00	15:39	CAT		100	2.6	16	
09/30/18	IW-18B	15:44	16:25	H2O2	6%	100	2.4	10	
09/30/18	IW-56A	15:03	15:56	CAT		75	1.4	64	
09/30/18	IW-56A	16:01	16:46	H2O2	6%	50	1.1	72	
09/30/18	IW-23B	15:34	16:18	CAT		100	2.3	12	
09/30/18	IW-23B	16:23	16:46	H2O2	6%	50	2.2	10	surfaced 12 feet southeast at ERH well
09/30/18	IW-42A	15:59	16:34	CAT		100	2.9	6	
09/30/18	IW-42A	16:39	17:23	H2O2	6%	100	2.3	6	
09/30/18	IW-2C	15:59	16:35	CAT		100	2.8	22	
09/30/18	IW-2C	16:40	17:18	H2O2	6%	100	2.6	12	
09/30/18	IW-6C	15:59	16:35	CAT		100	2.8	28	
09/30/18	IW-6C	16:40	17:18	H2O2	6%	100	2.6	24	
09/30/18	IW-18B	16:30	17:09	CAT		100	2.6	14	
09/30/18	IW-18B	17:14	17:56	H2O2	6%	100	2.4	14	
09/30/18	IW-48B	16:58	17:32	CAT		50	1.5	50	

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Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/30/18	IW-48B	17:37	18:11	H2O2	6%	50	1.5	58	
09/30/18	IW-11D	16:58	17:58	CAT		100	1.7	20	
09/30/18	IW-11D	18:03	17:41	H2O2	6%	50	-2.3	34	
09/30/18	IW-2C	17:23	18:06	CAT		100	2.3	14	
09/30/18	IW-2C	18:11	18:50	H2O2	6%	100	2.6	14	
09/30/18	IW-6C	17:23	18:06	CAT		100	2.3	20	
09/30/18	IW-6C	18:11	18:50	H2O2	6%	100	2.6	20	
09/30/18	IW-42A	17:38	18:22	CAT		100	2.3	10	
09/30/18	IW-42A	18:27	18:47	H2O2	6%	50	2.5	8	
09/30/18	IW-53B	18:09	18:44	CAT		25	0.7	100	100 psi after 25 gallons
10/01/18	IW-24C	7:53	8:24	CAT		5	0.2	100	100 psi after 5 gallons
10/01/18	IW-8C	7:53	8:41	CAT		100	2.1	66	
10/01/18	IW-8C	8:46	9:26	H2O2	6%	100	2.5	42	
10/01/18	IW-11D	7:48	8:24	H2O2	6%	50	1.4	50	
10/01/18	IW-11D	8:29	9:02	CAT		50	1.5	74	
10/01/18	IW-48A	7:48	8:46	H2O2	6%	50	0.9	78	
10/01/18	IW-48A	8:51	9:41	CAT		50	1.0	94	
10/01/18	IW-55B	7:48	8:15	CAT		25	0.9	98	
10/01/18	IW-48B	7:48	8:13	CAT		50	2.0	26	
10/01/18	IW-48B	8:18	8:46	H2O2	6%	50	1.8		
10/01/18	IW-47B	8:20	8:47	CAT		50	1.9	82	
10/01/18	IW-47B	8:52	9:16	H2O2	6%	50	2.1	18	
10/01/18	IW-4C	8:55	9:17	CAT		50	2.3	68	
10/01/18	IW-4C	9:22	9:46	H2O2	6%	50	2.1	40	
10/01/18	IW-46B	9:04	9:41	CAT		50	1.4	12	
10/01/18	IW-46B	9:46	10:33	H2O2	6%	100	2.1	16	
10/01/18	IW-45B	9:17	9:44	H2O2	6%	50	1.9	30	
10/01/18	IW-45B	9:49	10:14	CAT		50	2.0	10	
10/01/18	IW-41B	9:28	10:04	CAT		50	1.4	44	
10/01/18	IW-41B	10:09	10:31	H2O2	6%	50	2.3	50	
10/01/18	IW-7C	9:38	10:22	CAT		100	2.3	30	
10/01/18	IW-7C	10:27	11:04	H2O2	6%	100	2.7	10	
10/01/18	IW-47A	10:01	10:38	CAT		50	1.4	60	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/01/18	IW-47A	10:43	11:25	H2O2	6%	50	1.2	100	100 psi after 50 gallons
10/01/18	IW-23B	10:09	10:31	CAT		50	2.3	12	
10/01/18	IW-23B	10:36	10:57	H2O2	6%	50	2.4	16	
10/01/18	IW-45B	10:19	10:42	H2O2	6%	50	2.2	12	
10/01/18	IW-45B	10:47	11:12	CAT		50	2.0	12	
10/01/18	IW-46B	10:38	11:21	CAT		100	2.3	18	
10/01/18	IW-46B	11:26	11:50	H2O2	6%	50	2.1	20	
10/01/18	IW-26C	10:44	11:14	CAT		50	1.7	100	100 psi after 50 gallons
10/01/18	IW-7C	11:09	11:46	CAT		100	2.7	10	
10/01/18	IW-7C	11:51	12:30	H2O2	6%	100	2.6	10	
10/01/18	IW-4C	11:09	11:46	CAT		100	2.7	26	
10/01/18	IW-4C	11:51	12:30	H2O2	6%	100	2.6	22	
10/01/18	IW-45B	11:17	11:43	H2O2	6%	50	1.9	14	
10/01/18	IW-12C	11:27	11:50	CAT		50	2.2	64	
10/01/18	IW-12C	11:55	12:46	H2O2	6%	100	2.0	54	
10/01/18	IW-43A	11:43	12:06	CAT		50	2.2	10	
10/01/18	IW-43A	12:11	12:36	H2O2	6%	50	2.0	12	
10/01/18	IW-5D	11:56	12:49	H2O2	6%	100	1.9	44	
10/01/18	IW-5D	12:54	13:52	CAT		100	1.7	100	100 psi after 100 gallons
10/01/18	IW-56B	12:07	12:55	CAT		100	2.1	30	
10/01/18	IW-56B	13:00	13:52	H2O2	6%	100	1.9	52	
10/01/18	IW-4C	12:35	13:16	CAT		100	2.4	16	
10/01/18	IW-4C	13:21	14:03	H2O2	6%	100	2.4	18	
10/01/18	IW-12D	12:35	13:16	CAT		100	2.4	62	
10/01/18	IW-12D	13:21	14:11	H2O2	6%	100	2.0	62	
10/01/18	IW-56A	12:55	13:35	H2O2	6%	50	1.3	60	
10/01/18	IW-48A	12:50	13:18	CAT		50	1.8	36	
10/01/18	IW-48A	13:23	14:10	H2O2	6%	100	2.1	34	
10/01/18	IW-40B	12:48	14:42	CAT		100	0.9	98	
10/01/18	IW-40B	14:47	15:25	H2O2	6%	85	2.2	90	surfaced
10/01/18	IW-48B	14:07	14:46	CAT		100	2.6	16	
10/01/18	IW-48B	14:51	15:31	H2O2	6%	100	2.5	16	
10/01/18	IW-8C	14:34	15:11	CAT		100	2.7	14	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/01/18	IW-8C	15:16	15:58	H2O2	6%	100	2.4	14	
10/01/18	IW-52A	14:34	15:11	CAT		100	2.7	0	
10/01/18	IW-52A	15:16	15:58	H2O2	6%	100	2.4	10	
10/01/18	IW-48A	14:34	15:12	CAT		100	2.6	20	
10/01/18	IW-48A	15:17	15:45	H2O2	6%	65	2.3	20	surfaced 18 feet northeast
10/01/18	IW-12C	14:34	15:11	CAT		100	2.7	48	
10/01/18	IW-12C	15:16	16:05	H2O2	6%	100	2.0	46	
10/01/18	IW-28C	15:54	16:31	CAT		50	1.4	100	100 psi after 50 gallons
10/01/18	IW-10C	15:54	16:33	CAT		25	0.6	100	100 psi after 25 gallons
10/01/18	IW-14D	16:01	16:49	CAT		100	2.1	0	
10/01/18	IW-14D	16:54	17:54	H2O2	6%	100	1.7	10	
10/01/18	IW-52A	16:06	16:46	CAT		100	2.5	10	
10/01/18	IW-52A	16:51	17:32	H2O2	6%	100	2.4	14	surfaced 10 feet southeast
10/01/18	IW-8C	16:06	16:46	CAT		100	2.5	14	
10/01/18	IW-8C	16:51	17:32	H2O2	6%	100	2.4	12	
10/01/18	IW-3C	16:18	17:03	CAT		100	2.2	80	
10/01/18	IW-3C	17:08	17:56	H2O2	6%	100	2.1	16	
10/01/18	IW-27C	16:34	16:51	CAT		25	1.5	100	100 psi after 25 gallons
10/01/18	IW-11C	16:40	17:31	CAT		100	2.0	32	
10/01/18	IW-11C	17:36	18:01	H2O2	6%	50	2.0	50	
10/01/18	IW-47B	16:55	17:37	CAT		100	2.4	14	
10/01/18	IW-47B	17:42	18:02	H2O2	6%	50	2.5	16	
10/02/18	IW-52B	7:39	8:20	CAT		100	2.4	8	
10/02/18	IW-52B	8:25	9:11	H2O2	6%	100	2.2	16	
10/02/18	IW-3C	7:39	8:20	CAT		100	2.4	14	
10/02/18	IW-3C	8:25	9:11	H2O2	6%	100	2.2	12	
10/02/18	IW-54B	7:39	7:51	CAT		5	0.4	100	100 psi after 5 gallons
10/02/18	IW-22C	7:39	7:51	CAT		3	0.3	100	100 psi after 3 gallons
10/02/18	IW-55A	7:39	8:07	CAT		50	1.8	64	
10/02/18	IW-55A	8:12	8:35	H2O2	6%	50	2.2	2	surfaced along annulus
10/02/18	IW-56B	7:39	8:36	CAT		100	1.8	28	
10/02/18	IW-56B	8:41	9:43	H2O2	6%	100	1.6	44	
10/02/18	IW-54A	8:12	9:04	CAT		100	1.9	50	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/02/18	IW-54A	9:08	9:43	H2O2	6%	50	1.4	10	
10/02/18	IW-23A	8:12	9:07	CAT		100	1.8	18	
10/02/18	IW-23A	9:12	10:15	H2O2	6%	100	1.6	60	
10/02/18	IW-23C	8:46	9:24	CAT		50	1.3	60	
10/02/18	IW-23C	9:29	9:46	H2O2	6%	25	1.5	78	surfaced along annulus
10/02/18	IW-12D	9:40	10:30	CAT		100	2.0	68	
10/02/18	IW-12D	10:35	11:44	H2O2	6%	100	1.4	100	100 psi after 100 gallons
10/02/18	IW-13D	9:40	10:25	CAT		100	2.2	8	
10/02/18	IW-13D	10:30	11:20	H2O2	6%	100	2.0	12	
10/02/18	IW-48B	10:01	10:48	CAT		100	2.1	30	
10/02/18	IW-48B	10:53	11:39	H2O2	6%	100	2.2	30	
10/02/18	IW-5D	10:01	10:39	H2O2	6%	50	1.3	100	100 psi after 50 gallons
10/02/18	IW-47A	10:07	11:04	H2O2	6%	50	0.9	90	
10/02/18	IW-56A	10:42	11:20	H2O2	6%	50	1.3	80	
10/02/18	IW-3C	12:01	12:54	CAT		100	1.9	18	
10/02/18	IW-3C	12:59	13:43	H2O2	6%	100	2.3	12	
10/02/18	IW-14D	12:01	12:54	CAT		100	1.9	30	
10/02/18	IW-14D	12:59	13:43	H2O2	6%	100	2.3	30	
10/02/18	IW-18C	12:01	12:43	CAT		50	1.2	34	
10/02/18	IW-18C	12:48	13:43	H2O2	6%	50	0.9	44	
10/02/18	IW-47B	12:01	12:54	H2O2	6%	100	1.9	16	
10/02/18	IW-47B	12:59	13:20	CAT		50	2.4	16	
10/02/18	IW-35B	12:01	12:31	H2O2	6%	35	1.2	24	surfaced 2 feet south
10/02/18	IW-21C	12:01	12:43	CAT		50	1.2	42	
10/02/18	IW-21C	12:48	13:42	H2O2	6%	50	0.9	74	
10/02/18	IW-36B	12:51	13:19	CAT		50	1.8	44	
10/02/18	IW-36B	13:24	13:59	H2O2	6%	50	1.4	50	
10/02/18	IW-35A	13:40	14:59	CAT		50	0.6	22	
10/02/18	IW-35A	15:04	15:29	H2O2	6%	25	1.0	12	surfaced 9 feet northeast
10/02/18	IW-13D	13:59	14:42	CAT		100	2.3	12	
10/02/18	IW-13D	14:47	16:00	H2O2	6%	100	1.4	12	
10/02/18	IW-25C	13:59	14:25	CAT		50	1.9	22	
10/02/18	IW-25C	14:29	14:59	H2O2	6%	50	1.7	18	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/02/18	IW-26C	14:42	15:34	H2O2	6%	35	0.7	100	100 psi after 35 gallons
10/02/18	IW-39A	14:42	15:08	CAT		50	1.9	8	
10/02/18	IW-39A	15:13	15:29	H2O2	6%	20	1.3	10	surfaced 12 feet northeast
10/02/18	IW-5D	15:17	15:59	H2O2	6%	50	1.2	100	100 psi after 100 gallons
10/02/18	IW-47B	15:56	16:21	CAT		50	2.0	18	
10/02/18	IW-47B	16:26	16:52	H2O2	6%	50	1.9	18	
10/02/18	IW-44B	15:56	16:36	CAT		50	1.2	34	
10/02/18	IW-44B	16:41	17:20	H2O2	6%	50	1.3	34	
10/02/18	IW-5D	16:02	16:23	H2O2	6%	50	2.4	40	surfaced 9 feet northwest
10/02/18	IW-54A	16:05	16:15	H2O2	6%	20	2.0		surfaced thru tubing at ERH well 6 feet west
10/02/18	IW-14D	16:08	16:53	CAT		100	2.2	36	
10/02/18	IW-14D	16:58	17:48	H2O2	6%	100	2.0	42	
10/02/18	IW-54A	16:24	16:55	H2O2	6%	50	1.6	20	
10/02/18	IW-54A	17:00	17:25	CAT		50	2.0	18	
10/02/18	IW-53B	17:07	17:37	H2O2	6%	50	1.7	28	
10/03/18	IW-12D	7:53	8:54	CAT		50	0.8	82	
10/03/18	IW-12D	9:03	9:39	H2O2	6%	25	0.7	100	100 psi after 25 gallons
10/03/18	IW-13D	7:53	8:39	CAT		100	2.2	26	
10/03/18	IW-13D	8:44	9:45	H2O2	6%	100	1.6	18	
10/03/18	IW-47A	7:53	8:29	CAT		50	1.4	22	
10/03/18	IW-47A	8:34	9:10	H2O2	6%	50	1.4	50	
10/03/18	IW-53B	7:53	8:17	CAT		50	2.1	20	
10/03/18	IW-53B	8:22	8:51	H2O2	6%	50	1.7	22	
10/03/18	IW-56A	9:15	10:02	CAT		50	1.1	32	
10/03/18	IW-56A	10:07	11:57	H2O2	6%	50	0.5	78	
10/03/18	IW-54A	9:15	9:44	CAT		50	1.7	14	
10/03/18	IW-54A	9:49	10:28	H2O2	6%	50	1.3	16	
10/03/18	IW-52A	10:16	11:43	CAT		50	0.6	10	
10/03/18	IW-52A	11:48	12:06	H2O2	6%	40	2.2	10	surfaced 9 feet southeast
10/03/18	IW-30A	10:16	11:43	CAT		50	0.6	0	
10/03/18	IW-30A	11:48	12:17	H2O2	6%	50	1.7	12	
10/03/18	IW-26B	11:43	12:06	CAT		50	2.2	12	

Table 2
Daily Injection Summary
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/03/18	IW-26B	12:11	12:37	H2O2	6%	50	1.9	16	
10/03/18	IW-26C	11:53	12:40	H2O2	6%	25	0.5	100	100 psi after 25 gallons
10/03/18	IW-11C	12:11	12:54	H2O2	6%	50	1.2	70	
10/03/18	IW-23A	12:22	12:50	CAT		50	1.8	4	
10/03/18	IW-23A	12:55	13:21	H2O2	6%	50	1.9	4	
10/03/18	IW-53B	12:40	13:10	CAT		50	1.7	24	
10/03/18	IW-53B	13:15	13:41	H2O2	6%	50	1.9	26	
10/03/18	IW-52B	12:57	13:27	CAT		50	1.7	14	
10/03/18	IW-52B	13:32	14:09	H2O2	6%	50	1.4	14	
10/03/18	IW-54A	12:59	13:29	H2O2	6%	50	1.7	20	
10/03/18	IW-54A	13:34	13:40	CAT		5	0.8	18	surfaced 9 feet northeast
10/03/18	IW-47A	13:20	14:33	H2O2	6%	50	0.7	28	
10/03/18	IW-23A	13:27	13:46	CAT		50	2.6	5	
10/03/18	IW-23A	13:49	14:15	H2O2	6%	50	1.9	6	
10/03/18	IW-52B	14:29	14:55	CAT		50	1.9	32	
10/03/18	IW-52B	15:00	15:32	H2O2	6%	50	1.6	30	
10/03/18	IW-53B	14:29	14:53	CAT		50	2.1	24	
10/03/18	IW-53B	14:58	15:19	H2O2	6%	50	2.4	22	
10/03/18	IW-23A	14:29	14:52	CAT		50	2.2	10	
10/03/18	IW-23A	14:57	15:20	H2O2	6%	50	2.2	24	
10/03/18	IW-47A	15:23	16:31	CAT		50	0.7	36	
10/03/18	IW-52B	15:38	16:07	CAT		50	1.7	44	
10/03/18	IW-52B	16:12	16:53	H2O2	6%	50	1.2	44	
10/03/18	IW-23A	15:50	16:20	H2O2	6%	50	1.7	24	

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2, value in concentration column represents hydrogen peroxide concentration

Table 3
Injection Well Reagent Totals
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	3% H2O2	6% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1A	300	200	100	600	2.2	16	
IW-2A	300	100	200	600	2.1	12	
IW-3A	300	0	300	600	1.9	22	
IW-4A	300	0	300	600	2.3	16	
IW-5A	300	0	300	600	2.0	30	
IW-6A	300	0	300	600	1.9	2	
IW-7A	300	0	300	600	2.5	12	
IW-8A	300	200	100	600	2.2	4	
IW-9A	300	100	200	600	2.0	22	
IW-10A	300	0	300	600	2.4	14	
IW-11A	300	0	300	600	2.3	14	
IW-12A	300	0	300	600	2.4	10	
IW-13A	300	0	300	600	2.3	16	
IW-14A	300	0	300	600	2.1	18	
IW-15A	300	0	300	600	1.7	16	
IW-16A	300	200	100	600	1.9	12	
IW-17A	300	0	300	600	2.1	10	
IW-18A	250	0	250	500	2.4	10	
IW-19A	300	0	300	600	2.2	18	
IW-20A	300	0	300	600	2.2	12	
IW-21A	300	200	100	600	1.9	20	
IW-22A	300	0	300	600	2.3	12	
IW-23A	250	0	300	550	2.0	60	
IW-24A	300	0	300	600	2.0	16	
IW-25A	300	0	300	600	2.3	12	
IW-26A	300	0	300	600	2.4	22	
IW-27A	300	0	300	600	1.8	20	
IW-28A	300	0	300	600	2.3	20	
IW-29A	300	100	200	600	1.6	40	
IW-30A	300	0	300	600	1.7	50	
IW-31A	300	0	300	600	1.9	90	
IW-32A	300	0	267	567	1.9	44	x
IW-33A	300	0	300	600	2.1	30	
IW-34A	200	0	125	325	1.9	36	x
IW-35A	250	0	150	400	1.5	30	x
IW-36A	100	20	0	120	2.0	64	x
IW-37A	100	0	40	140	1.8	50	x
IW-38A	100	85	0	185	1.7	46	x
IW-39A	250	100	20	370	1.9	42	x
IW-40A	300	0	300	600	2.3	20	
IW-41A	300	0	300	600	2.0	48	
IW-42A	300	0	250	550	2.2	24	
IW-43A	250	0	220	470	1.7	78	x
IW-44A	200	0	280	480	1.8	68	x
IW-45A	100	0	100	200	1.7	50	x
IW-46A	300	0	300	600	1.8	84	x
IW-47A	250	0	236	486	1.1	100	

Table 3
Injection Well Reagent Totals
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	3% H2O2	6% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-48A	300	0	265	565	1.7	100	x
IW-50A	200	0	95	295	1.8	18	x
IW-51A	100	0	70	170	1.3	26	x
IW-52A	250	0	240	490	2.1	14	x
IW-53A	300	100	200	600	1.8	38	
IW-54A	205	0	220	425	1.6	50	x
IW-55A	50	0	50	100	2.0	64	x
IW-56A	225	0	250	475	1.3	80	
IW-57A	100	0	95	195	1.6	72	x
IW-58A	0	0	0	0	0.0	0	
IW-1B	300	0	300	600	2.2	16	
IW-2B	300	0	300	600	2.0	28	
IW-3B	300	0	300	600	2.5	12	
IW-4B	300	100	200	600	1.9	24	
IW-5B	300	0	300	600	1.9	22	
IW-6B	300	0	300	600	2.7	16	
IW-7B	300	100	200	600	2.1	16	
IW-8B	300	0	300	600	1.8	50	
IW-9B	300	0	300	600	2.2	28	
IW-10B	310	0	300	610	1.9	40	
IW-11B	300	0	300	600	2.5	20	
IW-12B	300	0	300	600	2.6	14	
IW-13B	300	0	300	600	2.5	16	
IW-14B	300	100	200	600	2.1	20	
IW-15B	300	0	300	600	2.2	14	
IW-16B	300	0	300	600	2.2	30	
IW-17B	300	0	300	600	2.2	12	
IW-18B	300	0	300	600	2.3	26	
IW-19B	300	0	300	600	2.7	30	
IW-20B	300	0	300	600	2.1	28	
IW-21B	300	100	200	600	2.3	10	
IW-22B	100	0	100	200	2.0	20	x
IW-23B	250	0	200	450	2.2	20	x
IW-24B	100	0	100	200	2.0	40	x
IW-25B	300	0	300	600	2.1	68	
IW-26B	300	100	200	600	2.0	22	
IW-27B	300	0	300	600	2.4	80	
IW-28B	100	0	50	150	1.7	40	x
IW-29B	300	0	300	600	2.1	28	
IW-30B	300	0	250	550	2.0	58	
IW-31B	300	0	300	600	2.0	30	
IW-32B	300	100	200	600	2.0	70	
IW-33B	300	0	300	600	1.8	22	
IW-34B	100	0	35	135	2.0	74	x
IW-35B	200	0	155	355	1.4	50	x
IW-36B	57	0	50	107	1.5	50	x
IW-37B	100	0	75	175	1.7	62	x

Table 3
Injection Well Reagent Totals
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	3% H2O2	6% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-38B	300	0	300	600	1.7	84	
IW-39B	300	100	200	600	2.0	30	
IW-40B	100	0	85	185	1.6	98	x
IW-41B	250	0	250	500	1.7	80	
IW-42B	100	0	60	160	1.8	60	x
IW-43B	300	35	200	535	1.6	100	
IW-44B	250	0	200	450	1.5	60	x
IW-45B	300	0	280	580	1.8	100	
IW-46B	250	0	250	500	1.8	70	
IW-47B	250	0	250	500	2.1	82	
IW-48B	300	0	300	600	2.0	58	
IW-49B	300	0	300	600	2.0	26	
IW-50B	300	0	300	600	2.1	52	
IW-51B	315	0	300	615	2.0	70	
IW-52B	250	0	250	500	1.8	44	
IW-53B	275	0	250	525	1.7	100	
IW-54B	5	0	0	5	0.4	100	
IW-55B	25	0	0	25	0.9	98	
IW-56B	300	0	300	600	1.7	60	
IW-1C	300	0	300	600	2.8	28	
IW-2C	300	0	300	600	2.4	30	
IW-3C	300	0	300	600	2.2	80	
IW-4C	250	0	250	500	2.4	68	
IW-5C	300	0	300	600	2.5	30	
IW-6C	300	0	300	600	2.4	34	
IW-7C	300	0	300	600	2.3	84	
IW-8C	300	0	300	600	2.4	66	
IW-9C	100	0	100	200	2.0	82	x
IW-10C	25	0	0	25	0.6	100	
IW-11C	100	0	100	200	1.7	70	
IW-12C	250	0	235	485	1.9	100	
IW-13C	100	0	95	195	2.0	98	x
IW-14C	250	50	200	500	1.7	94	x
IW-15C	250	0	250	500	1.4	86	
IW-16C	100	0	85	185	2.4	90	x
IW-17C	300	200	100	600	1.8	84	
IW-18C	250	0	250	500	2.9	60	x
IW-19C	100	100	0	200	1.4	84	x
IW-20C	300	200	100	600	1.9	24	
IW-21C	250	100	150	500	1.6	74	x
IW-22C	3	0	0	3	0.3	100	
IW-23C	50	0	25	75	1.4	78	x
IW-24C	9	0	0	9	0.3	100	
IW-25C	250	0	150	400	2.0	95	x
IW-26C	150	50	60	260	1.1	100	
IW-27C	25	0	0	25	1.5	100	
IW-28C	50	0	0	50	1.4	100	

Table 3
Injection Well Reagent Totals
ISCO First Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	3% H2O2	6% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1D	300	0	300	600	2.2	30	
IW-2D	300	0	300	600	1.7	60	
IW-3D	300	100	200	600	1.6	90	
IW-4D	300	0	300	600	1.8	48	
IW-5D	200	0	275	475	1.7	100	x
IW-6D	300	0	300	600	2.5	12	
IW-7D	300	0	300	600	2.1	24	
IW-8D	300	0	300	600	2.1	10	
IW-9D	300	0	300	600	1.8	16	
IW-10D	300	0	300	600	1.9	44	
IW-11D	350	0	300	650	1.0	74	
IW-12D	250	0	225	475	1.6	100	
IW-13D	300	0	300	600	2.0	26	
IW-14D	300	0	300	600	2.0	42	
IW-15D	300	0	300	600	2.2	30	
IW-16D	0	0	0	0	0.0	0	
	38379	**2940**	**33963**	**75282**	**1.9**	**100**	**39**

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2 columns, percentage represents hydrogen peroxide concentration

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/05/18	IW-8A	15:13	15:59	CAT		100	2.2	0	
11/05/18	IW-8A	16:04	16:55	H2O2	8%	100	2.0	8	
11/05/18	IW-28A	15:13	15:59	CAT		100	2.2	0	
11/05/18	IW-28A	16:04	16:55	H2O2	8%	100	2.0	8	
11/05/18	IW-43A	15:13	15:41	CAT		50	1.8	14	
11/05/18	IW-43A	15:46	16:29	H2O2	8%	50	1.2	15	
11/05/18	IW-46A	15:13	16:09	CAT		100	1.8	32	
11/05/18	IW-46A	16:14	16:59	H2O2	8%	50	1.1	48	
11/05/18	IW-35A	16:04	16:36	CAT		50	1.6	22	
11/05/18	IW-40A	16:04	16:55	CAT		100	2.0	4	
11/06/18	IW-6A	7:45	8:28	CAT		100	2.3	0	
11/06/18	IW-6A	8:33	9:18	H2O2	8%	100	2.2	6	
11/06/18	IW-21A	7:45	8:28	CAT		100	2.3	10	
11/06/18	IW-21A	8:33	9:18	H2O2	8%	100	2.2	16	
11/06/18	IW-44A	7:45	8:12	CAT		50	1.9	7	
11/06/18	IW-44A	8:17	8:51	H2O2	8%	50	1.5	4	
11/06/18	IW-29A	7:45	8:34	CAT		100	2.0	2	
11/06/18	IW-29A	8:44	9:34	H2O2	8%	100	2.0	4	
11/06/18	IW-35A	7:45	8:05	H2O2	8%	35	1.8	24	surfaced 6 feet east
11/06/18	IW-40A	7:45	8:45	H2O2	8%	100	1.7	10	
11/06/18	IW-39A	8:16	8:40	CAT		50	2.1	4	
11/06/18	IW-39A	8:45	8:55	H2O2	8%	20	2.0	6	surfaced 12 feet northeast
11/06/18	IW-40A	8:52	9:09	CAT		35	2.1	20	surfaced 1 foot south at ERH well
11/06/18	IW-48A	9:00	9:31	CAT		50	1.6	18	surfaced along annulus & 5 feet south
11/06/18	IW-36A	9:26	9:31	CAT		10	2.0	6	surfaced 2 feet west
11/06/18	IW-57A	9:26	9:53	CAT		50	1.9	20	
11/06/18	IW-57A	9:58	10:10	H2O2	8%	25	2.1	20	surfaced 2 feet northeast
11/06/18	IW-6A	9:26	10:14	CAT		100	2.1	8	
11/06/18	IW-6A	10:19	11:06	H2O2	8%	100	2.1	4	
11/06/18	IW-21A	9:26	10:14	CAT		100	2.1	18	
11/06/18	IW-21A	10:19	11:06	H2O2	8%	100	2.1	16	
11/06/18	IW-31A	10:04	10:56	CAT		100	1.9	10	
11/06/18	IW-31A	11:01	12:37	H2O2	8%	100	1.0	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/06/18	IW-47A	10:04	10:49	CAT		50	1.1	34	
11/06/18	IW-47A	10:54	11:34	H2O2	8%	50	1.3	42	
11/06/18	IW-26A	10:04	10:56	CAT		100	1.9	0	
11/06/18	IW-26A	11:01	12:43	H2O2	8%	100	1.0	8	
11/06/18	IW-51A	10:24	10:54	CAT		50	1.7	16	
11/06/18	IW-51A	10:59	11:28	H2O2	8%	50	1.7	16	surfaced along annulus
11/06/18	IW-8A	11:23	12:47	CAT		100	1.2	0	
11/06/18	IW-8A	12:52	13:44	H2O2	8%	100	1.9	10	
11/06/18	IW-28A	11:23	12:47	CAT		100	1.2	10	
11/06/18	IW-28A	12:52	13:44	H2O2	8%	100	1.9	14	
11/06/18	IW-58A	11:41	13:13	CAT		100	1.1	48	
11/06/18	IW-58A	13:18	14:20	H2O2	8%	100	1.6	36	
11/06/18	IW-44A	12:35	13:03	CAT		50	1.8	4	surfaced 9 feet south
11/06/18	IW-34A	13:07	13:35	CAT		50	1.8	24	
11/06/18	IW-34A	13:40	13:52	H2O2	8%	30	2.5	24	surfaced 6 feet south
11/06/18	IW-26A	13:07	13:53	CAT		100	2.2	18	
11/06/18	IW-26A	13:58	14:56	H2O2	8%	100	1.7	16	
11/06/18	IW-10A	13:35	14:24	CAT		100	2.0	0	
11/06/18	IW-10A	14:29	15:25	H2O2	8%	100	1.8	0	
11/06/18	IW-2A	14:14	14:59	CAT		100	2.2	0	
11/06/18	IW-2A	15:04	15:53	H2O2	8%	100	2.0	10	
11/06/18	IW-14A	14:14	14:59	CAT		100	2.2	0	
11/06/18	IW-14A	15:04	15:53	H2O2	8%	100	2.0	10	
11/06/18	IW-55A	14:14	14:34	CAT		50	2.5	6	
11/06/18	IW-55A	14:39	14:55	H2O2	8%	35	2.2	8	surfaced 2 feet north
11/06/18	IW-54A	14:35	14:59	CAT		50	2.1	4	
11/06/18	IW-54A	15:04	16:03	H2O2	8%	100	1.7	20	
11/06/18	IW-24A	15:10	15:54	CAT		100	2.3	10	
11/06/18	IW-24A	15:59	16:53	H2O2	8%	100	1.9	18	
11/06/18	IW-19A	15:10	15:53	CAT		100	2.3	0	
11/06/18	IW-19A	15:58	16:57	H2O2	8%	100	1.7	6	
11/06/18	IW-10A	15:31	16:22	CAT		100	2.0	10	
11/06/18	IW-2A	15:58	16:46	CAT		100	2.1	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/06/18	IW-14A	15:58	16:48	CAT		100	2.0	12	
11/06/18	IW-31A	16:24	16:48	CAT		50	2.1	20	
11/07/18	IW-2A	7:35	8:24	H2O2	8%	100	2.0	4	
11/07/18	IW-14A	7:35	8:24	H2O2	8%	100	2.0	8	
11/07/18	IW-10A	7:37	8:22	H2O2	8%	100	2.2	0	
11/07/18	IW-31A	7:37	8:00	CAT		50	2.2	14	
11/07/18	IW-31A	8:05	8:20	H2O2	8%	25	1.7	14	surfaced 9 feet southeast
11/07/18	IW-24A	7:37	8:21	CAT		100	2.3	12	
11/07/18	IW-24A	8:26	9:12	H2O2	8%	100	2.2	14	
11/07/18	IW-19A	7:37	8:16	CAT		100	2.6	10	
11/07/18	IW-19A	8:21	9:12	H2O2	8%	100	2.0	14	
11/07/18	IW-2A	8:33	9:15	CAT		100	2.4	12	
11/07/18	IW-2A	9:20	10:00	H2O2	8%	100	2.5	14	
11/07/18	IW-14A	8:33	9:15	CAT		100	2.4	16	
11/07/18	IW-14A	9:20	10:00	H2O2	8%	100	2.5	16	
11/07/18	IW-10A	8:33	9:39	CAT		100	1.5	8	
11/07/18	IW-10A	9:44	10:35	H2O2	8%	100	2.0	12	
11/07/18	IW-41A	8:35	9:25	CAT		100	2.0	8	
11/07/18	IW-41A	9:30	10:09	H2O2	8%	100	2.6	15	
11/07/18	IW-43A	9:25	10:06	CAT		100	2.4	20	
11/07/18	IW-43A	10:11	10:59	H2O2	8%	100	2.1	14	surfaced 12 feet northeast
11/07/18	IW-58A	9:25	10:06	CAT		100	2.4	14	
11/07/18	IW-58A	10:11	10:56	H2O2	8%	100	2.2	16	
11/07/18	IW-2A	10:09	10:28	CAT		50	2.6	20	
11/07/18	IW-2A	10:33	10:56	H2O2	8%	50	2.2	20	
11/07/18	IW-14A	10:09	10:28	CAT		50	2.6	18	
11/07/18	IW-14A	10:33	10:56	H2O2	8%	50	2.2	18	
11/07/18	IW-48B	10:19	11:10	CAT		100	2.0	15	
11/07/18	IW-48B	11:15	11:48	H2O2	8%	100	3.0	15	
11/07/18	IW-29A	10:45	11:25	CAT		100	2.5	4	
11/07/18	IW-29A	11:30	12:29	H2O2	8%	100	1.7	16	
11/07/18	IW-16A	11:21	12:00	CAT		100	2.6	0	
11/07/18	IW-16A	12:05	12:47	H2O2	8%	100	2.4	0	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/07/18	IW-46A	11:21	11:45	CAT		50	2.1	30	
11/07/18	IW-46A	11:57	12:11	H2O2	8%	35	2.5	30	surfaced
11/07/18	IW-12A	11:17	11:54	CAT		100	2.7	0	
11/07/18	IW-12A	11:59	12:43	H2O2	8%	100	2.3	10	
11/07/18	IW-21A	11:17	11:54	CAT		100	2.7	4	
11/07/18	IW-21A	11:59	12:43	H2O2	8%	100	2.3	14	
11/07/18	IW-48B	11:57	12:38	CAT		100	2.4	12	
11/07/18	IW-48B	12:43	13:23	H2O2	8%	100	2.5	15	
11/07/18	IW-37A	12:28	12:40	CAT		25	2.1	6	surfaced 6 feet south
11/07/18	IW-25A	12:42	13:23	CAT		100	2.4	0	
11/07/18	IW-25A	13:28	14:20	H2O2	8%	100	1.9	12	
11/07/18	IW-12A	12:57	13:34	CAT		100	2.7	14	
11/07/18	IW-12A	13:39	14:18	H2O2	8%	100	2.6	14	
11/07/18	IW-21A	12:57	13:18	CAT		50	2.4	14	
11/07/18	IW-21A	13:23	13:40	H2O2	8%	50	2.9	14	
11/07/18	IW-16A	12:57	13:34	CAT		100	2.7	4	
11/07/18	IW-16A	13:39	14:18	H2O2	8%	100	2.6	10	
11/07/18	IW-33A	13:03	13:37	CAT		100	2.9	6	
11/07/18	IW-33A	13:43	14:21	H2O2	8%	100	2.6	4	
11/07/18	IW-56B	13:33	14:10	CAT		100	2.7	34	
11/07/18	IW-56B	14:15	14:48	H2O2	8%	50	1.5	64	
11/07/18	IW-27A	13:47	14:26	CAT		100	2.6	4	
11/07/18	IW-27A	14:31	15:13	H2O2	8%	100	2.4	10	
11/07/18	IW-25A	14:26	15:11	CAT		100	2.2	12	
11/07/18	IW-25A	15:16	16:00	H2O2	8%	100	2.3	16	
11/07/18	IW-33A	14:26	15:05	CAT		100	2.6	10	
11/07/18	IW-33A	15:10	15:49	H2O2	8%	100	2.6	10	
11/07/18	IW-20A	14:30	15:05	CAT		100	2.9	0	
11/07/18	IW-20A	15:10	15:49	H2O2	8%	100	2.6	10	
11/07/18	IW-18A	14:30	15:05	CAT		100	2.9	0	
11/07/18	IW-18A	15:10	15:49	H2O2	8%	100	2.6	14	
11/07/18	IW-42A	15:04	15:45	CAT		100	2.4	38	
11/07/18	IW-42A	15:50	16:41	H2O2	8%	100	2.0	40	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/07/18	IW-27A	15:18	15:57	CAT		100	2.6	14	
11/07/18	IW-27A	16:02	16:43	H2O2	8%	100	2.4	18	
11/07/18	IW-20A	15:54	16:32	CAT		100	2.6	16	
11/07/18	IW-18A	15:54	16:32	CAT		100	2.6	12	
11/07/18	IW-23A	15:58	16:34	CAT		100	2.8	12	
11/07/18	IW-53A	16:06	16:45	CAT		100	2.6	14	
11/08/18	IW-20A	7:37	8:16	H2O2	8%	100	2.6	12	
11/08/18	IW-18A	7:37	8:16	H2O2	8%	100	2.6	6	
11/08/18	IW-53A	7:37	8:19	H2O2	8%	100	2.4	14	
11/08/18	IW-23A	7:37	8:19	H2O2	8%	100	2.4	12	
11/08/18	IW-27A	7:37	8:15	CAT		100	2.6	10	
11/08/18	IW-27A	8:20	9:01	H2O2	8%	100	2.4	10	
11/08/18	IW-41A	7:37	8:15	CAT		100	2.6	12	
11/08/18	IW-41A	8:20	9:01	H2O2	8%	100	2.4	14	
11/08/18	IW-20A	8:21	9:01	CAT		100	2.5	14	
11/08/18	IW-20A	9:05	9:44	H2O2	8%	100	2.6	20	
11/08/18	IW-18A	8:21	9:01	CAT		100	2.5	14	
11/08/18	IW-18A	9:05	9:44	H2O2	8%	100	2.6	14	
11/08/18	IW-23A	8:24	8:58	CAT		100	2.9	20	
11/08/18	IW-23A	9:03	9:45	H2O2	8%	100	2.4	12	
11/08/18	IW-9A	8:26	9:08	CAT		100	2.4	4	
11/08/18	IW-9A	9:13	10:02	H2O2	8%	100	2.0	4	
11/08/18	IW-27A	9:06	9:30	CAT		50	2.1	16	
11/08/18	IW-27A	9:35	9:58	H2O2	8%	50	2.2	18	
11/08/18	IW-48B	9:10	9:59	CAT		100	2.0	18	
11/08/18	IW-48B	10:04	10:40	H2O2	8%	100	2.8	14	
11/08/18	IW-20A	9:49	10:08	CAT		50	2.6	22	
11/08/18	IW-20A	10:12	10:37	H2O2	8%	50	2.0	22	
11/08/18	IW-18A	9:49	10:10	CAT		50	2.4	0	
11/08/18	IW-18A	10:14	10:37	H2O2	8%	50	2.2	0	
11/08/18	IW-25A	9:56	10:37	CAT		100	2.4	6	
11/08/18	IW-25A	10:42	11:22	H2O2	8%	100	2.5	10	
11/08/18	IW-9A	10:06	10:42	CAT		100	2.8	20	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/08/18	IW-9A	10:46	11:33	H2O2	8%	100	2.1	2	
11/08/18	IW-13A	10:09	10:47	CAT		100	2.6	0	
11/08/18	IW-13A	10:51	11:33	H2O2	8%	100	2.4	10	
11/08/18	IW-1A	10:47	11:26	CAT		100	2.6	0	
11/08/18	IW-1A	11:30	12:13	H2O2	8%	100	2.3	14	
11/08/18	IW-17A	10:47	11:26	CAT		100	2.6	0	
11/08/18	IW-17A	11:30	12:10	H2O2	8%	100	2.5	10	
11/08/18	IW-48B	10:46	11:06	CAT		50	2.5	15	
11/08/18	IW-48B	11:10	11:29	H2O2	8%	50	2.6	18	
11/08/18	IW-25A	11:26	11:48	CAT		50	2.3	14	
11/08/18	IW-25A	11:52	12:12	H2O2	8%	50	2.5	14	
11/08/18	IW-13A	11:37	12:19	CAT		100	2.4	14	
11/08/18	IW-13A	12:23	13:09	H2O2	8%	100	2.2	18	
11/08/18	IW-4A	11:43	12:22	CAT		100	2.6	0	
11/08/18	IW-4A	12:26	13:03	H2O2	8%	100	2.7	2	
11/08/18	IW-46B	11:43	12:24	CAT		100	2.4	10	
11/08/18	IW-46B	12:28	13:12	H2O2	8%	100	2.3	22	
11/08/18	IW-17A	12:22	12:59	CAT		100	2.7	10	
11/08/18	IW-17A	13:06	13:46	H2O2	8%	100	2.5	10	
11/08/18	IW-1A	12:22	12:59	CAT		100	2.7	16	
11/08/18	IW-1A	13:06	13:43	H2O2	8%	100	2.7	18	
11/08/18	IW-33A	12:23	12:52	CAT		100	3.4	0	
11/08/18	IW-33A	12:56	13:39	H2O2	8%	100	2.3	10	
11/08/18	IW-11A	13:15	13:52	CAT		100	2.7	4	
11/08/18	IW-11A	13:56	14:44	H2O2	8%	100	2.1	10	
11/08/18	IW-15A	13:17	13:54	CAT		100	2.7	0	
11/08/18	IW-15A	13:58	15:05	H2O2	8%	100	1.5	10	
11/08/18	IW-47B	13:21	14:06	CAT		100	2.2	14	
11/08/18	IW-47B	14:09	14:49	H2O2	8%	100	2.5	12	
11/08/18	IW-33A	13:43	14:01	CAT		50	2.8	10	
11/08/18	IW-33A	14:05	14:26	H2O2	8%	50	2.4	14	
11/08/18	IW-7A	13:54	14:31	CAT		100	2.7	0	
11/08/18	IW-7A	14:34	15:16	H2O2	8%	100	2.4	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/08/18	IW-16A	13:56	14:31	CAT		100	2.9	0	
11/08/18	IW-16A	14:34	15:13	H2O2	8%	100	2.6	8	
11/08/18	IW-30A	14:36	15:10	CAT		100	2.9	0	
11/08/18	IW-30A	15:14	15:51	H2O2	8%	100	2.7	6	
11/08/18	IW-11A	14:48	15:27	CAT		100	2.6	16	
11/08/18	IW-11A	15:31	16:14	H2O2	8%	100	2.3	18	
11/08/18	IW-15D	14:58	15:37	CAT		100	2.6	18	
11/08/18	IW-15D	15:41	16:23	H2O2	8%	100	2.4	30	
11/08/18	IW-15A	15:09	15:46	CAT		100	2.7	26	
11/08/18	IW-15A	15:50	16:31	H2O2	8%	100	2.4	28	
11/08/18	IW-16A	15:17	15:37	CAT		50	2.5	10	
11/08/18	IW-16A	15:41	16:01	H2O2	8%	50	2.5	12	
11/08/18	IW-7A	15:20	15:58	CAT		100	2.6	18	
11/08/18	IW-7A	16:02	16:45	H2O2	8%	100	2.3	22	
11/08/18	IW-30A	15:55	16:33	CAT		100	2.6	12	
11/08/18	IW-3A	16:08	16:47	CAT		100	2.6	0	
11/08/18	IW-19A	16:21	16:53	CAT		100	3.1	0	
11/08/18	IW-50A	16:29	16:53	CAT		50	2.1		
11/09/18	IW-30A	8:03	8:58	H2O2	8%	100	1.8	18	
11/09/18	IW-19A	8:03	8:58	H2O2	8%	100	1.8	8	
11/09/18	IW-3A	7:58	9:01	H2O2	8%	125	2.0	14	
11/09/18	IW-50A	7:58	8:34	H2O2	8%	30	0.8	32	surfaced 4 feet south
11/09/18	IW-22A	7:58	8:50	CAT		100	1.9	0	
11/09/18	IW-22A	8:54	9:35	H2O2	8%	100	2.4	14	
11/09/18	IW-5A	7:58	8:47	CAT		100	2.0	2	
11/09/18	IW-5A	8:51	9:30	H2O2	8%	100	2.6	10	
11/09/18	IW-41A	8:44	9:23	CAT		100	2.6	15	
11/09/18	IW-41A	9:27	10:10	H2O2	8%	100	2.3	15	
11/09/18	IW-30A	9:03	9:40	CAT		100	2.7	18	
11/09/18	IW-30A	9:44	10:22	H2O2	8%	100	2.6	16	
11/09/18	IW-19A	9:03	9:23	CAT		50	2.5	10	
11/09/18	IW-19A	9:27	9:53	H2O2	8%	50	1.9	14	
11/09/18	IW-3A	9:10	9:50	CAT		100	2.5	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/09/18	IW-3A	9:54	10:28	H2O2	8%	100	2.9	14	
11/09/18	IW-5A	9:34	10:16	CAT		100	2.4	18	
11/09/18	IW-5A	10:20	11:39	H2O2	8%	100	1.3	18	
11/09/18	IW-22A	9:40	10:17	CAT		100	2.7	18	
11/09/18	IW-22A	10:21	11:39	H2O2	8%	100	1.3	18	
11/09/18	IW-26A	10:00	10:54	CAT		150	2.8	0	
11/09/18	IW-26A	10:58	11:44	H2O2	8%	100	2.2	6	
11/09/18	IW-41A	10:14	10:33	CAT		50	2.6	16	
11/09/18	IW-41A	10:37	11:00	H2O2	8%	50	2.2	20	
11/09/18	IW-30A	10:26	11:06	CAT		50	1.3	18	
11/09/18	IW-30A	11:10	11:46	H2O2	8%	50	1.4	18	
11/09/18	IW-17A	10:40	11:23	CAT		100	2.3	5	
11/09/18	IW-17A	11:27	12:11	H2O2	8%	100	2.3	12	
11/09/18	IW-15A	10:50	11:31	CAT		100	2.4	8	
11/09/18	IW-15A	11:35	12:17	H2O2	8%	100	2.4	10	
11/09/18	IW-1A	10:50	11:30	CAT		100	2.5	10	
11/09/18	IW-1A	11:34	12:11	H2O2	8%	100	2.7	8	
11/09/18	IW-15D	11:15	11:59	CAT		100	2.3	32	
11/09/18	IW-15D	12:03	12:48	H2O2	8%	100	2.2	50	
11/09/18	IW-24A	12:04	12:44	CAT		100	2.5	2	
11/09/18	IW-24A	12:47	13:26	H2O2	8%	100	2.6	2	
11/09/18	IW-28A	12:04	12:40	CAT		100	2.8	0	
11/09/18	IW-28A	12:44	13:26	H2O2	8%	100	2.4	8	
11/09/18	IW-17A	12:15	12:34	CAT		50	2.6	12	
11/09/18	IW-17A	12:38	12:59	H2O2	8%	50	2.4	14	
11/09/18	IW-1A	12:15	12:35	CAT		50	2.5	14	
11/09/18	IW-1A	12:39	12:59	H2O2	8%	50	2.5	18	
11/09/18	IW-15A	12:21	12:39	CAT		50	2.8	14	
11/09/18	IW-15A	12:43	13:02	H2O2	8%	50	2.6	16	
11/09/18	IW-47B	12:56	13:34	CAT		100	2.6	12	
11/09/18	IW-47B	13:38	14:20	H2O2	8%	100	2.4	15	surfaced north of location
11/09/18	IW-9A	13:10	13:45	CAT		100	2.9	14	
11/09/18	IW-9A	13:49	14:42	H2O2	8%	100	1.9	22	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/09/18	IW-7A	13:10	13:45	CAT		100	2.9	18	
11/09/18	IW-7A	13:49	14:42	H2O2	8%	100	1.9	18	
11/09/18	IW-12A	13:12	13:51	CAT		100	2.6	16	
11/09/18	IW-12A	13:55	14:47	H2O2	8%	100	1.9	10	
11/09/18	IW-24A	13:30	14:08	CAT		50	1.3	12	
11/09/18	IW-24A	14:14	14:40	H2O2	8%	50	1.9	18	
11/09/18	IW-28A	13:30	14:08	CAT		50	1.3	8	
11/09/18	IW-28A	14:14	14:33	H2O2	8%	50	2.6	10	
11/09/18	IW-9A	14:46	15:06	CAT		50	2.5	26	
11/09/18	IW-9A	15:10	15:31	H2O2	8%	50	2.4	24	
11/09/18	IW-7A	14:46	15:05	CAT		50	2.6	20	
11/09/18	IW-7A	15:10	15:31	H2O2	8%	50	2.4	24	
11/09/18	IW-12A	14:51	15:05	CAT		50	3.6	10	
11/09/18	IW-12A	15:10	15:31	H2O2	8%	50	2.4	14	
11/09/18	IW-53A	14:33	15:16	CAT		100	2.3	6	
11/09/18	IW-53A	15:20	16:02	H2O2	8%	100	2.4	8	
11/09/18	IW-29A	14:40	15:16	CAT		100	2.8	0	
11/09/18	IW-29A	15:20	16:02	H2O2	8%	100	2.4	2	
11/09/18	IW-10A	14:47	15:06	CAT		50	2.6	0	
11/09/18	IW-10A	15:11	15:35	H2O2	8%	50	2.1	2	
11/09/18	IW-23A	15:45	15:58	CAT		50	3.8	0	
11/09/18	IW-23A	16:02	16:16	H2O2	8%	50	3.6	6	
11/09/18	IW-8A	15:45	16:02	CAT		50	2.9	2	
11/09/18	IW-8A	16:06	16:25	H2O2	8%	50	2.6	8	
11/09/18	IW-11A	15:45	16:02	CAT		50	2.9	8	
11/09/18	IW-11A	16:06	16:25	H2O2	8%	50	2.6	10	
11/09/18	IW-4A	15:45	16:04	CAT		50	2.6	0	
11/09/18	IW-4A	16:08	16:30	H2O2	8%	50	2.3	4	
11/09/18	IW-32A	16:10	16:32	CAT		50	2.3	10	
11/09/18	IW-56A	16:10	16:32	CAT		50	2.3	60	
11/10/18	IW-23A	7:52	8:38	CAT		100	2.2	12	
11/10/18	IW-23A	8:42	9:20	H2O2	8%	100	2.6	12	
11/10/18	IW-8A	7:52	8:29	CAT		100	2.7	2	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/10/18	IW-8A	8:33	9:12	H2O2	8%	100	2.6	4	
11/10/18	IW-11A	7:52	8:31	CAT		100	2.6	6	
11/10/18	IW-11A	8:35	9:12	H2O2	8%	100	2.7	12	
11/10/18	IW-4A	7:52	8:39	CAT		100	2.1	10	
11/10/18	IW-4A	8:43	10:20	H2O2	8%	200	2.1	20	
11/10/18	IW-32A	7:52	8:12	H2O2	8%	35	1.8	10	surfaced 7 feet west at ERH well
11/10/18	IW-56A	7:52	8:43	H2O2	8%	50	1.0	90	
11/10/18	IW-35A	8:28	8:35	CAT		25	3.6	4	surfaced 10 feet east
11/10/18	IW-31A	8:37	8:56	CAT		50	2.6	0	
11/10/18	IW-39A	8:52	9:06	CAT		50	3.6	6	surfaced 18 feet northeast
11/10/18	IW-37A	8:57	9:06	CAT		30	3.3	10	surfaced 6 feet south
11/10/18	IW-5D	9:08	9:46	CAT		100	2.6	10	
11/10/18	IW-5D	9:50	9:58	H2O2	8%	20	2.5		surfaced 12 feet northwest
11/10/18	IW-38A	9:10	9:23	CAT		30	2.3	0	surfaced 2 feet southeast
11/10/18	IW-6A	9:23	10:08	CAT		100	2.2	0	
11/10/18	IW-6A	10:12	10:53	H2O2	8%	100	2.4	8	
11/10/18	IW-22A	9:23	10:17	CAT		100	1.9	4	
11/10/18	IW-22A	10:21	11:00	H2O2	8%	100	2.6	10	
11/10/18	IW-34A	9:26	9:36	CAT		20	2.0	10	surfaced 8 feet south
11/10/18	IW-58A	9:28	10:08	CAT		100	2.5	2	
11/10/18	IW-58A	10:12	10:53	H2O2	8%	100	2.4	8	
11/10/18	IW-55A	9:44	9:51	CAT		20	2.9	10	surfaced 2 feet northwest
11/10/18	IW-6D	9:53	10:32	CAT		100	2.6	0	
11/10/18	IW-6D	10:36	11:24	H2O2	8%	125	2.6	4	
11/10/18	IW-8D	10:05	10:43	CAT		100	2.6	0	
11/10/18	IW-8D	10:47	11:24	H2O2	8%	100	2.7	0	
11/10/18	IW-4A	10:24	11:08	CAT		100	2.3	18	
11/10/18	IW-6A	10:57	11:18	CAT		50	2.4	10	
11/10/18	IW-6A	10:22	11:39	H2O2	8%	50	0.6	10	
11/10/18	IW-58A	10:57	11:13	CAT		50	3.1	4	
11/10/18	IW-58A	11:17	11:34	H2O2	8%	50	2.9	8	
11/10/18	IW-22A	11:04	11:22	CAT		50	2.8	12	
11/10/18	IW-22A	11:26	11:46	H2O2	8%	50	2.5	10	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/10/18	IW-3A	11:15	11:51	CAT		100	2.8	0	
11/10/18	IW-3A	11:55	12:34	H2O2	8%	100	2.6	0	
11/10/18	IW-6D	11:28	12:06	CAT		100	2.6	6	
11/10/18	IW-6D	12:10	13:03	H2O2	8%	125	2.4	14	
11/10/18	IW-8D	11:28	12:08	CAT		100	2.5	0	
11/10/18	IW-8D	12:12	12:48	H2O2	8%	100	2.8	6	
11/10/18	IW-53A	11:42	12:20	CAT		100	2.6	16	
11/10/18	IW-53A	12:24	13:10	H2O2	8%	100	2.2	24	
11/10/18	IW-5A	11:45	12:24	H2O2	8%	100	2.6	8	
11/10/18	IW-5A	12:28	13:04	CAT		100	2.8	10	
11/10/18	IW-26A	11:57	12:13	H2O2	8%	50	3.1	12	
11/10/18	IW-29A	12:19	12:39	CAT		50	2.5	4	
11/10/18	IW-29A	12:59	13:18	H2O2	8%	50	2.6	4	
11/10/18	IW-3A	12:38	12:57	CAT		50	2.6	6	
11/10/18	IW-3A	13:01	13:14	H2O2	8%	25	1.9	6	
11/10/18	IW-13D	12:58	13:31	CAT		100	3.0	8	
11/10/18	IW-13D	13:36	14:25	H2O2	8%	100	2.0	28	
11/10/18	IW-10D	13:08	13:43	CAT		100	2.9	22	
11/10/18	IW-10D	13:42	14:25	H2O2	8%	100	2.3	14	
11/10/18	IW-5A	13:08	13:31	H2O2	8%	50	2.2	18	
11/10/18	IW-5A	13:36	13:56	CAT		50	2.5	18	
11/10/18	IW-8B	13:17	13:59	CAT		100	2.4	10	
11/10/18	IW-8B	13:58	14:39	H2O2	8%	100	2.4	18	
11/10/18	IW-18B	13:25	14:11	CAT		100	2.2	12	
11/10/18	IW-18B	14:15	14:58	H2O2	8%	100	2.3	14	
11/10/18	IW-13A	13:28	14:11	H2O2	8%	100	2.3	8	
11/10/18	IW-13A	14:15	14:56	CAT		100	2.4	8	
11/10/18	IW-2B	14:02	14:46	CAT		100	2.3	14	
11/10/18	IW-2B	14:50	15:32	H2O2	8%	100	2.4	20	
11/10/18	IW-16D	14:40	15:20	CAT		40	1.0	90	90 psi at 40 gallons
11/10/18	IW-4D	14:43	15:26	CAT		100	2.3	20	
11/10/18	IW-4D	15:30	16:15	H2O2	8%	100	2.2	48	
11/10/18	IW-8B	14:43	15:22	CAT		100	2.6	18	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/10/18	IW-8B	15:26	16:04	H2O2	8%	100	2.6	22	
11/10/18	IW-13A	15:00	15:18	CAT		50	2.8	22	
11/10/18	IW-13A	15:22	15:44	H2O2	8%	50	2.3	26	
11/10/18	IW-18B	15:02	15:46	H2O2	8%	100	2.3	14	
11/10/18	IW-18B	15:50	16:24	CAT		100	2.9	20	
11/10/18	IW-39B	15:27	16:06	CAT		100	2.6	8	
11/10/18	IW-39B	16:10	16:47	H2O2	8%	100	2.7	12	
11/10/18	IW-2B	15:36	16:15	CAT		100	2.6	32	
11/10/18	IW-2B	16:19	16:55	H2O2	8%	100	2.8	12	
11/10/18	IW-21B	15:51	16:27	CAT		100	2.8	4	
11/10/18	IW-15B	16:24	16:45	CAT		50	2.4	8	
11/10/18	IW-19C	16:24	16:40	CAT		30	1.9	76	surfaced 15 feet southwest
11/11/18	IW-21B	7:35	8:18	H2O2	8%	100	2.3	6	
11/11/18	IW-52B	7:35	8:10	CAT		100	2.9	30	
11/11/18	IW-52B	8:14	8:52	H2O2	8%	100	2.6	16	
11/11/18	IW-30B	7:35	8:10	CAT		100	2.9	16	
11/11/18	IW-30B	8:14	8:52	H2O2	8%	100	2.6	10	
11/11/18	IW-15B	7:35	8:18	H2O2	8%	100	2.3	8	
11/11/18	IW-7D	7:35	8:09	CAT		100	2.9	26	
11/11/18	IW-7D	8:13	8:50	H2O2	8%	100	2.7	20	
11/11/18	IW-25B	7:35	8:14	CAT		100	2.6	12	
11/11/18	IW-25B	8:18	9:02	H2O2	8%	100	2.3	16	
11/11/18	IW-15B	8:22	9:03	CAT		100	2.4	18	
11/11/18	IW-15B	9:07	9:28	H2O2	8%	50	2.4	18	
11/11/18	IW-21B	8:22	9:03	CAT		100	2.4	22	
11/11/18	IW-21B	9:07	9:46	H2O2	8%	100	2.6	20	
11/11/18	IW-52B	8:56	9:35	CAT		100	2.6	20	
11/11/18	IW-52B	9:39	10:14	H2O2	8%	100	2.9	14	
11/11/18	IW-30B	8:56	9:35	CAT		100	2.6	14	
11/11/18	IW-30B	9:39	10:14	H2O2	8%	100	2.9	14	
11/11/18	IW-7D	8:56	9:32	CAT		100	2.8	20	
11/11/18	IW-7D	9:36	10:18	H2O2	8%	100	2.4	26	
11/11/18	IW-25B	9:07	9:50	CAT		100	2.3	18	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/11/18	IW-25B	9:54	10:35	H2O2	8%	100	2.4	18	
11/11/18	IW-53A	9:39	10:00	CAT		50	2.4	16	
11/11/18	IW-53A	10:04	10:35	H2O2	8%	50	1.6	28	
11/11/18	IW-12B	9:56	10:32	CAT		100	2.8	0	
11/11/18	IW-12B	10:36	11:22	H2O2	8%	100	2.2	0	
11/11/18	IW-52A	10:28	11:01	CAT		100	3.0	0	
11/11/18	IW-17B	10:28	11:01	CAT		100	3.0	10	
11/11/18	IW-17B	11:06	11:53	H2O2	8%	100	2.1	8	
11/11/18	IW-49B	10:28	11:00	CAT		100	3.1	12	
11/11/18	IW-49B	11:05	11:45	H2O2	8%	100	2.5	14	
11/11/18	IW-27B	10:43	11:24	CAT		100	2.4	10	
11/11/18	IW-27B	11:28	12:13	H2O2	8%	100	2.2	10	
11/11/18	IW-14D	10:43	11:25	CAT		100	2.4	30	
11/11/18	IW-14D	11:30	12:10	H2O2	8%	100	2.5	50	
11/11/18	IW-4B	11:13	11:49	CAT		100	2.8	12	
11/11/18	IW-4B	11:55	12:33	H2O2	8%	100	2.6	14	
11/11/18	IW-12B	11:26	12:06	CAT		100	2.5	14	
11/11/18	IW-12B	12:10	12:51	H2O2	8%	100	2.4	18	
11/11/18	IW-17B	11:57	12:36	CAT		100	2.6	14	
11/11/18	IW-17B	12:40	13:17	H2O2	8%	100	2.7	14	
11/11/18	IW-51B	11:57	12:34	CAT		100	2.7	22	
11/11/18	IW-51B	12:38	13:16	H2O2	8%	100	2.6	16	
11/11/18	IW-9D	12:07	12:39	CAT		100	3.1	0	
11/11/18	IW-9D	12:43	13:27	H2O2	8%	100	2.3	0	
11/11/18	IW-27B	12:24	13:08	CAT		100	2.3	16	
11/11/18	IW-27B	13:13	13:56	H2O2	8%	100	2.3	18	
11/11/18	IW-4B	12:37	13:14	CAT		100	2.7	12	
11/11/18	IW-4B	13:18	13:55	H2O2	8%	100	2.7	20	
11/11/18	IW-14B	12:58	13:36	CAT		100	2.6	0	
11/11/18	IW-14B	13:40	14:23	H2O2	8%	100	2.3	15	
11/11/18	IW-32B	13:27	14:05	CAT		100	2.6	60	
11/11/18	IW-32B	14:09	14:48	H2O2	8%	100	2.6	28	
11/11/18	IW-50B	13:27	14:02	CAT		100	2.9	20	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/11/18	IW-50B	14:06	14:46	H2O2	8%	100	2.5	12	
11/11/18	IW-9D	13:31	14:11	CAT		100	2.5	22	
11/11/18	IW-9D	14:15	14:54	H2O2	8%	100	2.6	16	
11/11/18	IW-6B	14:08	14:44	CAT		100	2.8	10	
11/11/18	IW-6B	14:48	15:30	H2O2	8%	100	2.4	14	
11/11/18	IW-20B	14:08	14:43	CAT		100	2.9	4	
11/11/18	IW-20B	14:47	15:34	H2O2	8%	100	2.1	8	
11/11/18	IW-14B	14:27	15:04	CAT		100	2.7	16	
11/11/18	IW-14B	15:09	15:45	H2O2	8%	100	2.8	14	
11/11/18	IW-8D	14:56	15:32	CAT		100	2.8	24	
11/11/18	IW-8D	15:36	16:12	H2O2	8%	100	2.8	24	
11/11/18	IW-33B	14:56	15:32	CAT		100	2.8	10	
11/11/18	IW-33B	15:36	16:13	H2O2	8%	100	2.7	10	
11/11/18	IW-23B	15:04	15:46	CAT		100	2.4	10	
11/11/18	IW-23B	15:50	16:06	H2O2	8%	35	2.2	10	surfaced 9 feet southeast at ERH well
11/11/18	IW-6B	15:34	15:56	CAT		50	2.3		
11/11/18	IW-6B	16:00	16:19	H2O2	8%	50	2.6		
11/11/18	IW-20B	15:38	15:59	CAT		50	2.4		
11/11/18	IW-20B	16:02	16:26	H2O2	8%	50	2.1		
11/11/18	IW-10B	15:55	16:39	CAT		100	2.3	46	
11/11/18	IW-12C	16:16	16:39	CAT		50	2.2	40	
11/11/18	IW-14C	16:22	16:48	CAT		50	1.9	52	
11/12/18	IW-12C	7:44	8:18	H2O2	8%	50	1.5	40	
11/12/18	IW-14C	7:44	8:08	H2O2	8%	50	2.1	50	surfaced 9 feet northwest
11/12/18	IW-10B	7:44	8:15	H2O2	8%	50	1.6	60	
11/12/18	IW-1B	7:38	8:10	CAT		100	3.1	12	
11/12/18	IW-1B	8:14	8:53	H2O2	8%	100	2.6	18	
11/12/18	IW-49B	7:38	8:14	CAT		100	2.8	20	
11/12/18	IW-49B	8:18	8:55	H2O2	8%	100	2.7	22	
11/12/18	IW-18B	7:38	8:18	CAT		100	2.5	16	
11/12/18	IW-18B	8:22	9:17	H2O2	8%	100	1.8	14	
11/12/18	IW-4D	8:33	9:25	CAT		100	1.9	44	
11/12/18	IW-4D	9:29	10:02	H2O2	8%	50	1.5	58	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/12/18	IW-26B	8:33	9:02	CAT		100	3.4	10	
11/12/18	IW-26B	9:06	9:51	H2O2	8%	100	2.2	18	
11/12/18	IW-11B	8:33	9:07	CAT		100	2.9	10	
11/12/18	IW-11B	9:11	9:51	H2O2	8%	100	2.5	14	
11/12/18	IW-1B	8:57	9:36	H2O2	8%	100	2.6	16	
11/12/18	IW-1B	9:40	10:19	CAT		100	2.6	20	
11/12/18	IW-51B	9:04	9:40	CAT		100	2.8	20	
11/12/18	IW-51B	9:44	10:19	H2O2	8%	100	2.9	22	
11/12/18	IW-18B	9:11	9:31	CAT		50	2.5	18	
11/12/18	IW-18B	9:35	9:56	H2O2	8%	50	2.4	20	
11/12/18	IW-11B	9:55	10:30	CAT		100	2.9	16	
11/12/18	IW-11B	10:35	11:11	H2O2	8%	100	2.8	16	
11/12/18	IW-26B	9:55	10:30	CAT		100	2.9	18	
11/12/18	IW-26B	10:35	11:13	H2O2	8%	100	2.6	18	
11/12/18	IW-16B	10:08	10:46	CAT		100	2.6	8	
11/12/18	IW-16B	10:50	11:32	H2O2	8%	100	2.4	16	
11/12/18	IW-9D	10:13	10:56	CAT		100	2.3	30	
11/12/18	IW-9D	11:00	11:48	H2O2	8%	100	2.1	40	
11/12/18	IW-3B	10:31	11:11	CAT		100	2.5	8	
11/12/18	IW-3B	11:15	11:59	H2O2	8%	100	2.3	14	
11/12/18	IW-50B	10:31	11:12	CAT		100	2.4	18	
11/12/18	IW-50B	11:15	11:55	H2O2	8%	100	2.5	18	
11/12/18	IW-32B	11:28	12:07	CAT		100	2.6	10	
11/12/18	IW-32B	12:11	12:48	H2O2	8%	100	2.7	10	
11/12/18	IW-13B	11:28	12:07	CAT		100	2.6	2	
11/12/18	IW-13B	12:11	12:48	H2O2	8%	100	2.7	16	
11/12/18	IW-16B	11:36	12:20	CAT		100	2.3	10	
11/12/18	IW-16B	12:26	13:09	H2O2	8%	100	2.3	12	
11/12/18	IW-14D	11:56	12:50	CAT		100	1.9	40	
11/12/18	IW-14D	12:54	13:40	H2O2	8%	100	2.2	46	
11/12/18	IW-39B	12:05	12:41	CAT		100	2.8	10	
11/12/18	IW-39B	12:45	13:24	H2O2	8%	100	2.6	12	
11/12/18	IW-3B	12:03	12:39	CAT		100	2.8	10	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/12/18	IW-3B	12:43	13:21	H2O2	8%	100	2.6	12	
11/12/18	IW-13B	12:52	13:43	CAT		100	2.0	16	
11/12/18	IW-13B	13:47	14:27	H2O2	8%	100	2.5	16	
11/12/18	IW-24B	13:03	13:36	CAT		100	3.0	10	
11/12/18	IW-16B	13:09	13:40	H2O2	8%	100	3.2	13	
11/12/18	IW-16B	13:47	14:27	CAT		100	2.5	14	
11/12/18	IW-52A	13:36	14:00	H2O2	8%	50	2.1	4	surfaced 5 feet south
11/12/18	IW-10D	13:36	14:11	CAT		100	2.9	20	
11/12/18	IW-10D	14:15	15:01	H2O2	8%	100	2.2	22	
11/12/18	IW-19B	13:52	14:33	CAT		100	2.4	12	
11/12/18	IW-19B	14:37	15:20	H2O2	8%	100	2.3	18	
11/12/18	IW-29B	13:52	14:33	CAT		100	2.4	14	
11/12/18	IW-29B	14:37	15:12	H2O2	8%	100	2.9	10	
11/12/18	IW-5B	14:08	14:45	CAT		100	2.7	6	
11/12/18	IW-5B	14:49	15:30	H2O2	8%	100	2.4	8	
11/12/18	IW-7B	14:36	15:15	CAT		100	2.6	2	
11/12/18	IW-7B	15:20	16:00	H2O2	8%	100	2.5	4	
11/12/18	IW-8B	14:36	15:19	CAT		100	2.3	12	
11/12/18	IW-8B	15:23	16:15	H2O2	8%	100	1.9	12	
11/12/18	IW-54B	15:12	15:22	CAT		5	0.5	90	
11/12/18	IW-29B	15:16	15:52	CAT		100	2.8	10	
11/12/18	IW-29B	15:56	16:31	H2O2	8%	100	2.9	10	
11/12/18	IW-19B	15:24	16:02	CAT		100	2.6	20	
11/12/18	IW-19B	16:06	16:40	H2O2	8%	100	2.9	10	
11/12/18	IW-28B	15:26	16:06	CAT		100	2.5	38	
11/12/18	IW-5B	15:34	16:11	CAT		100	2.7	14	
11/12/18	IW-5B	16:15	16:47	H2O2	8%	100	3.1	16	
11/12/18	IW-7B	16:04	16:23	CAT		50	2.6	10	
11/12/18	IW-7B	16:27	16:42	H2O2	8%	50	3.3	12	
11/12/18	IW-12C	16:12	16:35	H2O2	8%	50	2.2	68	
11/12/18	IW-12C	16:39	17:05	CAT		50	1.9	56	
11/12/18	IW-53B	16:22	16:59	CAT		100	2.7	10	
11/13/18	IW-28B	8:11	8:33	H2O2	8%	50	2.3	32	surfaced 9 feet south

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/13/18	IW-53B	8:11	8:54	H2O2	8%	100	2.3	12	
11/13/18	IW-30B	8:11	8:47	CAT		100	2.8	10	
11/13/18	IW-30B	8:51	9:31	H2O2	8%	100	2.5	8	
11/13/18	IW-20B	8:11	8:47	CAT		100	2.8	8	
11/13/18	IW-20B	8:51	9:31	H2O2	8%	100	2.5	4	
11/13/18	IW-4B	8:11	8:48	CAT		100	2.7	14	
11/13/18	IW-4B	8:52	9:30	H2O2	8%	100	2.6	16	
11/13/18	IW-6B	8:11	8:48	CAT		100	2.7	16	
11/13/18	IW-6B	8:52	9:30	H2O2	8%	100	2.6	14	
11/13/18	IW-12C	8:41	9:07	H2O2	8%	50	1.9	60	
11/13/18	IW-12C	9:11	9:30	CAT		50	2.6	54	
11/13/18	IW-9B	9:03	9:42	CAT		100	2.6	2	
11/13/18	IW-9B	9:46	10:30	H2O2	8%	100	2.3	6	
11/13/18	IW-4B	9:34	9:56	CAT		50	2.3	18	
11/13/18	IW-4B	10:00	10:19	H2O2	8%	50	2.6	16	
11/13/18	IW-6B	9:34	10:12	CAT		100	2.6	12	
11/13/18	IW-6B	10:17	10:55	H2O2	8%	100	2.6	14	
11/13/18	IW-30B	9:35	9:56	CAT		50	2.4	12	
11/13/18	IW-30B	10:00	10:23	H2O2	8%	50	2.2	14	
11/13/18	IW-20B	9:35	10:12	CAT		100	2.7	12	
11/13/18	IW-20B	10:17	10:55	H2O2	8%	100	2.6	12	
11/13/18	IW-18C	9:45	10:31	CAT		100	2.2	52	
11/13/18	IW-2B	10:28	11:06	CAT		100	2.6	4	
11/13/18	IW-2B	11:10	11:48	H2O2	8%	100	2.6	8	
11/13/18	IW-15B	10:32	11:05	CAT		100	3.0	10	
11/13/18	IW-15B	11:09	11:48	H2O2	8%	100	2.6	10	
11/13/18	IW-9B	10:34	11:17	CAT		100	2.3	14	
11/13/18	IW-9B	11:21	12:05	H2O2	8%	100	2.3	14	
11/13/18	IW-16C	10:37	11:17	CAT		100	2.5	76	
11/13/18	IW-27B	11:06	11:44	CAT		100	2.6	10	
11/13/18	IW-27B	11:48	12:56	H2O2	8%	100	1.5	14	
11/13/18	IW-12B	11:06	11:40	CAT		100	2.9	6	
11/13/18	IW-12B	11:44	12:57	H2O2	8%	100	1.4	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/13/18	IW-13C	11:31	12:03	CAT		100	3.1	18	
11/13/18	IW-2B	11:52	12:13	CAT		50	2.4	12	
11/13/18	IW-2B	12:38	12:58	H2O2	8%	50	2.5	18	
11/13/18	IW-15B	11:52	12:44	CAT		100	1.9	16	
11/13/18	IW-15B	12:48	13:33	H2O2	8%	100	2.2	20	
11/13/18	IW-31B	12:35	13:10	CAT		100	2.9	10	
11/13/18	IW-31B	13:14	14:03	H2O2	8%	100	2.0	8	
11/13/18	IW-26C	12:35	13:20	CAT		50	1.1	86	
11/13/18	IW-27B	13:02	13:23	CAT		50	2.4	18	
11/13/18	IW-27B	13:27	13:47	H2O2	8%	50	2.5	20	
11/13/18	IW-12B	13:02	13:23	CAT		50	2.4	16	
11/13/18	IW-12B	13:27	13:45	H2O2	8%	50	2.8	14	
11/13/18	IW-10B	13:08	13:36	H2O2	8%	50	1.8	30	
11/13/18	IW-10B	13:44	14:25	CAT		100	2.4	48	
11/13/18	IW-56A	13:33	14:31	CAT		100	1.7	76	
11/13/18	IW-25B	13:49	14:30	CAT		100	2.4	14	
11/13/18	IW-25B	14:34	15:07	H2O2	8%	100	3.0	12	
11/13/18	IW-22B	14:02	14:36	CAT		100	2.9	20	
11/13/18	IW-22B	14:40	15:17	H2O2	8%	100	2.7	10	
11/13/18	IW-14B	14:02	14:42	H2O2	8%	100	2.5	14	
11/13/18	IW-14B	14:46	15:27	CAT		100	2.4	18	
11/13/18	IW-31B	14:08	14:45	CAT		100	2.7	16	
11/13/18	IW-31B	14:50	15:34	H2O2	8%	100	2.3	10	
11/13/18	IW-10B	14:29	15:13	H2O2	8%	100	2.3	50	
11/13/18	IW-11C	14:42	15:15	CAT		100	3.0	16	
11/13/18	IW-25B	15:11	15:30	CAT		50	2.6	12	
11/13/18	IW-25B	15:34	15:56	H2O2	8%	50	2.3	14	
11/13/18	IW-22B	15:21	16:04	CAT		100	2.3	6	
11/13/18	IW-22B	16:08	16:44	H2O2	8%	100	2.8	8	
11/13/18	IW-52A	15:23	15:50	H2O2	8%	50	1.9	12	surfaced 6 feet south
11/13/18	IW-14B	15:31	15:51	CAT		50	2.5	14	
11/13/18	IW-14B	15:55	16:13	H2O2	8%	50	2.8	18	
11/13/18	IW-5D	15:32	16:09	H2O2	8%	50	1.4	34	surfaced 12 feet northwest

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/13/18	IW-24B	15:44	16:09	H2O2	8%	50	2.0	0	
11/13/18	IW-1B	16:06	16:23	CAT		50	2.9	18	
11/13/18	IW-1B	16:36	16:54	H2O2	8%	50	2.8	18	
11/13/18	IW-11B	16:06	16:23	CAT		50	2.9	18	
11/13/18	IW-11B	16:36	16:55	H2O2	8%	50	2.6	18	
11/13/18	IW-18C	16:20	16:59	H2O2	8%	50	1.3	52	
11/13/18	IW-16C	16:20	16:33	H2O2	8%	20	1.5	84	surfaced 15 feet east
11/14/18	IW-1B	7:51	8:27	CAT		100	2.8	22	
11/14/18	IW-1B	8:31	9:07	H2O2	8%	100	2.8	22	
11/14/18	IW-13B	7:51	8:31	CAT		100	2.5	17	
11/14/18	IW-13B	8:34	9:14	H2O2	8%	100	2.5	10	
11/14/18	IW-22B	7:51	8:23	CAT		100	3.1	15	
11/14/18	IW-22B	8:27	9:03	H2O2	8%	100	2.8	8	
11/14/18	IW-11B	7:51	8:31	CAT		100	2.5	20	
11/14/18	IW-11B	8:34	9:14	H2O2	8%	100	2.5	20	
11/14/18	IW-11C	7:51	8:24	H2O2	8%	50	1.5	56	
11/14/18	IW-18C	7:51	8:33	H2O2	8%	50	1.2	70	
11/14/18	IW-12C	8:45	9:26	CAT		100	2.4	34	
11/14/18	IW-32B	8:45	9:23	CAT		100	2.6	8	
11/14/18	IW-32B	9:27	10:11	H2O2	8%	100	2.3	10	
11/14/18	IW-22B	9:07	9:26	CAT		50	2.6	10	
11/14/18	IW-22B	9:30	9:48	H2O2	8%	50	2.8	10	
11/14/18	IW-3B	9:17	9:51	CAT		100	2.9	10	
11/14/18	IW-3B	9:55	10:27	H2O2	8%	100	3.1	10	
11/14/18	IW-13B	9:23	9:42	CAT		50	2.6	18	
11/14/18	IW-13B	9:46	10:08	H2O2	8%	50	2.3	18	
11/14/18	IW-19B	9:28	10:05	CAT		100	2.7	22	
11/14/18	IW-19B	10:09	10:41	H2O2	8%	100	3.1	18	
11/14/18	IW-13C	9:36	9:55	H2O2	8%	50	2.6	12	surfaced 15 feet southwest
11/14/18	IW-8B	9:54	10:17	CAT		50	2.2	16	
11/14/18	IW-8B	10:21	10:40	H2O2	8%	50	2.6	16	
11/14/18	IW-15C	10:03	10:51	CAT		100	2.1	44	
11/14/18	IW-7B	10:20	10:54	CAT		100	2.9	20	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/14/18	IW-7B	10:58	11:41	H2O2	8%	100	2.3	20	
11/14/18	IW-32B	10:20	10:38	CAT		50	2.8	10	
11/14/18	IW-32B	10:42	11:02	H2O2	8%	50	2.5	10	
11/14/18	IW-3B	10:31	10:51	CAT		50	2.5	10	
11/14/18	IW-3B	10:55	11:13	H2O2	8%	50	2.8	12	
11/14/18	IW-19B	10:45	11:05	CAT		50	2.5	18	
11/14/18	IW-19B	11:09	11:28	H2O2	8%	50	2.6	20	
11/14/18	IW-16B	10:47	11:08	CAT		50	2.4	8	
11/14/18	IW-16B	11:12	11:29	H2O2	8%	50	2.9	8	
11/14/18	IW-17C	11:03	11:45	CAT		100	2.4		
11/14/18	IW-24B	11:16	11:41	H2O2	8%	50	2.0	8	
11/14/18	IW-5B	11:25	11:58	CAT		100	3.0	16	
11/14/18	IW-5B	12:03	12:35	H2O2	8%	100	3.1	16	
11/14/18	IW-9B	11:42	12:14	CAT		100	3.1	12	
11/14/18	IW-9B	12:18	12:56	H2O2	8%	100	2.6	16	
11/14/18	IW-26B	11:42	12:14	CAT		100	3.1	12	
11/14/18	IW-26B	12:18	12:56	H2O2	8%	100	2.6	16	
11/14/18	IW-7B	11:45	12:33	CAT		100	2.1	14	
11/14/18	IW-7B	12:27	13:01	H2O2	8%	100	2.9	10	
11/14/18	IW-10C	11:54	12:51	CAT		100	1.8	86	
11/14/18	IW-15C	11:59	12:38	H2O2	8%	50	1.3	60	
11/14/18	IW-5B	12:40	13:01	CAT		50	2.4	16	
11/14/18	IW-5B	13:05	13:23	H2O2	8%	50	2.8	16	
11/14/18	IW-11C	12:44	13:16	H2O2	8%	50	1.6	60	
11/14/18	IW-29B	13:03	13:38	CAT		100	2.9	10	
11/14/18	IW-29B	13:44	14:23	H2O2	8%	100	2.6	10	
11/14/18	IW-9B	13:00	13:17	CAT		50	2.9	18	
11/14/18	IW-9B	13:21	13:44	H2O2	8%	50	2.2	18	
11/14/18	IW-26B	13:00	13:17	CAT		50	2.9	16	
11/14/18	IW-26B	13:21	13:44	H2O2	8%	50	2.2	16	
11/14/18	IW-21B	13:09	13:44	CAT		100	2.9	18	
11/14/18	IW-21B	13:48	14:27	H2O2	8%	100	2.6	20	
11/14/18	IW-17C	13:22	14:02	H2O2	8%	50	1.3	50	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/14/18	IW-10B	13:34	14:22	CAT		100	2.1	44	
11/14/18	IW-10B	14:26	15:06	H2O2	8%	100	2.5	46	
11/14/18	IW-33B	14:01	14:35	CAT		100	2.9	10	
11/14/18	IW-33B	14:39	15:16	H2O2	8%	100	2.7	10	
11/14/18	IW-31B	14:01	14:35	CAT		100	2.9	22	
11/14/18	IW-31B	14:39	15:17	H2O2	8%	100	2.6	20	
11/14/18	IW-12C	14:06	14:43	H2O2	8%	50	1.4	26	
11/14/18	IW-29B	14:27	14:48	CAT		50	2.4	12	
11/14/18	IW-29B	14:52	15:11	H2O2	8%	50	2.6	14	
11/14/18	IW-21B	14:31	14:49	CAT		50	2.8	22	
11/14/18	IW-21B	14:53	15:11	H2O2	8%	50	2.8	16	
11/14/18	IW-11C	14:48	15:17	H2O2	8%	50	1.7	64	
11/14/18	IW-10B	15:11	15:32	CAT		50	2.4	32	
11/14/18	IW-10B	15:36	15:52	H2O2	8%	50	3.1	38	
11/14/18	IW-31B	15:21	15:36	CAT		50	3.3	20	
11/14/18	IW-31B	15:41	16:01	H2O2	8%	50	2.5	20	
11/14/18	IW-33B	15:20	15:52	CAT		100	3.1	8	
11/14/18	IW-33B	15:56	16:36	H2O2	8%	100	2.5	10	
11/14/18	IW-17B	15:27	16:06	H2O2	8%	100	2.6	4	
11/14/18	IW-17B	16:12	16:50	CAT		100	2.6	10	
11/14/18	IW-17C	15:30	16:01	H2O2	8%	50	1.6	54	surfaced 15 feet southwest
11/14/18	IW-15C	15:31	16:18	H2O2	8%	50	1.1	80	
11/14/18	IW-10D	16:24	16:46	CAT		50	2.3		
11/14/18	IW-6D	16:24	15:44	CAT		50	-1.3		
11/27/18	IW-12D	9:35	10:52	H2O2	8%	100	1.3	100	100 psi at 100 gallons
11/27/18	IW-33B	9:35	9:55	H2O2	8%	50	2.5	10	
11/27/18	IW-33B	10:00	10:19	CAT		50	2.6	12	
11/27/18	IW-45B	9:35	10:17	CAT		90	2.1	48	surfaced 9 feet southwest
11/27/18	IW-50B	9:35	10:12	CAT		100	2.7	12	
11/27/18	IW-50B	10:15	11:02	H2O2	8%	100	2.1	10	
11/27/18	IW-56A	9:35	10:44	H2O2	8%	100	1.4	96	
11/27/18	IW-34B	9:35	10:15	CAT		100	2.5	60	
11/27/18	IW-38B	10:25	11:25	CAT		100	1.7	36	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/27/18	IW-36B	10:25	11:24	CAT		100	1.7	60	
11/27/18	IW-2D	10:34	11:28	CAT		100	1.9	36	
11/27/18	IW-2D	11:31	12:44	H2O2	8%	100	1.4	80	
11/27/18	IW-41B	11:03	11:51	CAT		100	2.1	52	
11/27/18	IW-2C	11:14	11:50	CAT		100	2.8	16	
11/27/18	IW-2C	11:54	12:31	H2O2	8%	100	2.7	12	
11/27/18	IW-51B	11:14	11:56	CAT		100	2.4	10	
11/27/18	IW-51B	12:00	12:45	H2O2	8%	100	2.2	14	
11/27/18	IW-35B	11:42	12:12	CAT		75	2.5	28	surfaced 5 feet south
11/27/18	IW-37B	11:39	12:22	CAT		100	2.3	48	
11/27/18	IW-40B	12:02	13:03	CAT		100	1.6	70	surfaced 6 feet southwest
11/27/18	IW-43B	12:21	13:07	CAT		100	2.2	30	
11/27/18	IW-39B	12:29	13:12	CAT		100	2.3	10	
11/27/18	IW-2C	12:34	13:12	CAT		100	2.6	12	
11/27/18	IW-2C	13:16	13:50	H2O2	8%	100	2.9	12	
11/27/18	IW-49B	12:56	13:34	CAT		100	2.6	20	
11/27/18	IW-49B	13:38	14:14	H2O2	8%	100	2.8	20	
11/27/18	IW-8C	13:02	13:39	CAT		100	2.7	10	
11/27/18	IW-8C	13:43	14:25	H2O2	8%	100	2.4	8	
11/27/18	IW-39B	13:16	14:03	H2O2	8%	100	2.1	14	
11/27/18	IW-42B	13:37	14:09	CAT		75	2.3	42	surfaced 15 feet northeast
11/27/18	IW-44B	13:37	14:21	CAT		100	2.3	40	
11/27/18	IW-5C	14:03	14:40	CAT		100	2.7	10	
11/27/18	IW-5C	14:44	15:32	H2O2	8%	100	2.1	10	
11/27/18	IW-39B	14:08	14:28	CAT		50	2.5	18	
11/27/18	IW-39B	14:32	14:53	H2O2	8%	50	2.4	18	
11/27/18	IW-49B	14:18	14:38	CAT		50	2.5	20	
11/27/18	IW-49B	14:42	15:04	H2O2	8%	50	2.3	22	
11/27/18	IW-23C	14:24	15:29	CAT		100	1.5	84	
11/27/18	IW-8C	14:29	15:09	CAT		100	2.5	14	
11/27/18	IW-8C	15:13	15:53	H2O2	8%	100	2.5	16	
11/27/18	IW-25C	14:39	15:00	CAT		40	1.9	24	surfaced 8 feet northwest at ERH well
11/27/18	IW-3D	15:22	15:44	CAT		50	2.3	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/27/18	IW-3D	15:50	16:18	H2O2	8%	50	1.8	20	
11/27/18	IW-24C	15:22	15:48	CAT		50	1.9	30	
11/27/18	IW-24C	15:54	16:34	H2O2	8%	50	1.3	80	
11/27/18	IW-50B	15:22	15:43	CAT		50	2.4	18	
11/27/18	IW-50B	15:49	16:10	H2O2	8%	50	2.4	20	
11/27/18	IW-5C	15:36	15:59	CAT		50	2.2	20	
11/27/18	IW-5C	16:03	16:21	H2O2	8%	50	2.8	16	
11/27/18	IW-12D	15:43	16:05	CAT		25	1.1	100	100 psi at 25 gallons
11/28/18	IW-52B	7:54	8:22	CAT		100	3.6	4	
11/28/18	IW-52B	8:26	9:03	H2O2	8%	100	2.7	12	
11/28/18	IW-5C	7:54	8:38	CAT		100	2.3	24	
11/28/18	IW-5C	8:46	9:26	H2O2	8%	100	2.5	24	
11/28/18	IW-3D	7:54	8:31	CAT		75	2.0	24	
11/28/18	IW-51B	7:54	8:13	CAT		50	2.6	20	
11/28/18	IW-51B	8:18	8:50	H2O2	8%	50	1.6	22	
11/28/18	IW-10C	7:54	8:59	H2O2	8%	100	1.5	90	
11/28/18	IW-27C	7:54	8:32	CAT		50	1.3	100	100 psi at 50 gallons
11/28/18	IW-3D	8:35	9:16	H2O2	8%	100	2.4	30	
11/28/18	IW-3D	9:20	9:34	CAT		25	1.8	26	
11/28/18	IW-28C	8:49	9:25	CAT		50	1.4	85	
11/28/18	IW-47A	9:02	9:56	CAT		100	1.9	30	
11/28/18	IW-47A	10:00	11:27	H2O2	8%	100	1.1	72	
11/28/18	IW-52B	9:07	9:28	CAT		50	2.4	14	
11/28/18	IW-52B	9:32	9:52	H2O2	8%	50	2.5	20	
11/28/18	IW-34B	9:14	9:38	H2O2	8%	50	2.1	30	surfaced 2 feet west
11/28/18	IW-42A	9:45	10:24	CAT		100	2.6	8	
11/28/18	IW-42A	10:28	11:08	H2O2	8%	100	2.5	12	
11/28/18	IW-12D	9:45	10:48	CAT		75	1.2	70	
11/28/18	IW-6C	9:45	10:24	CAT		100	2.6	20	
11/28/18	IW-6C	10:28	11:08	H2O2	8%	100	2.5	20	
11/28/18	IW-42B	9:52	10:13	H2O2	8%	20	1.0	30	surfaced 12 feet north
11/28/18	IW-4C	10:06	10:44	CAT		100	2.6	14	
11/28/18	IW-4C	10:48	11:25	H2O2	8%	100	2.7	14	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/28/18	IW-40B	10:21	11:05	H2O2	8%	30	0.7	90	
11/28/18	IW-11D	10:59	11:45	CAT		100	2.2	30	
11/28/18	IW-11D	11:52	13:05	H2O2	8%	100	1.4	80	
11/28/18	IW-6C	11:20	12:00	CAT		100	2.5	14	
11/28/18	IW-6C	12:04	12:41	H2O2	8%	100	2.7	14	
11/28/18	IW-45A	11:20	12:00	CAT		100	2.5	42	
11/28/18	IW-45A	12:04	12:59	H2O2	8%	100	1.8	68	
11/28/18	IW-37B	11:25	11:48	H2O2	8%	50	2.2	38	surfaced 12 feet west
11/28/18	IW-4C	11:29	12:07	CAT		100	2.6	16	
11/28/18	IW-4C	12:11	12:52	H2O2	8%	100	2.4	16	
11/28/18	IW-2D	11:47	12:46	CAT		100	1.7	86	
11/28/18	IW-44B	12:06	12:49	H2O2	8%	50	1.2	40	
11/28/18	IW-1C	13:07	13:45	CAT		100	2.6	8	
11/28/18	IW-1C	13:49	14:29	H2O2	8%	100	2.5	12	
11/28/18	IW-53B	13:07	13:45	CAT		100	2.6	20	
11/28/18	IW-53B	13:49	14:29	H2O2	8%	100	2.5	22	
11/28/18	IW-9C	13:07	13:47	CAT		100	2.5	20	
11/28/18	IW-9C	13:51	14:30	H2O2	8%	100	2.6	30	
11/28/18	IW-38B	13:09	13:45	H2O2	8%	50	1.4	20	surfaced 12 feet northwest
11/28/18	IW-46B	13:11	14:03	CAT		100	1.9	36	
11/28/18	IW-46B	14:07	14:51	H2O2	8%	100	2.3	28	
11/28/18	IW-23C	13:20	14:05	H2O2	8%	100	2.2	40	
11/28/18	IW-43B	13:55	14:51	H2O2	8%	50	0.9	60	
11/28/18	IW-22C	14:14	14:23	CAT		10	1.1	100	100 psi at 10 gallons
11/28/18	IW-24C	14:29	14:47	CAT		25	1.4	100	100 psi at 25 gallons
11/28/18	IW-1C	14:33	15:10	CAT		100	2.7	12	
11/28/18	IW-1C	15:14	15:49	H2O2	8%	100	2.9	14	
11/28/18	IW-53B	14:33	15:10	CAT		100	2.7	22	
11/28/18	IW-53B	15:14	15:49	H2O2	8%	100	2.9	20	
11/28/18	IW-9C	14:34	15:10	CAT		100	2.8	20	
11/28/18	IW-9C	15:14	15:55	H2O2	8%	100	2.4	20	
11/28/18	IW-13D	14:54	15:32	CAT		100	2.6	10	
11/28/18	IW-13D	15:36	16:27	H2O2	8%	100	2.0	20	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/28/18	IW-15D	14:58	15:40	CAT		100	2.4	24	
11/28/18	IW-15D	15:44	16:29	H2O2	8%	100	2.2	52	
11/28/18	IW-36B	15:03	15:44	H2O2	8%	50	1.2	76	
11/28/18	IW-35B	15:48	15:53	H2O2	8%	10	2.0	14	surfaced
11/28/18	IW-53B	15:53	16:11	CAT		50	2.8	20	
11/28/18	IW-53B	16:15	16:34	H2O2	8%	50	2.6	24	
11/28/18	IW-1C	15:53	16:11	CAT		50	2.8	14	
11/28/18	IW-1C	16:15	16:34	H2O2	8%	50	2.6	14	
11/28/18	IW-9C	15:59	16:17	CAT		50	2.8	22	
11/28/18	IW-9C	16:21	16:40	H2O2	8%	50	2.6	30	
11/28/18	IW-41B	16:11	16:43	H2O2	8%	50	1.6	62	
11/29/18	IW-1D	8:02	8:41	CAT		100	2.6	12	
11/29/18	IW-1D	8:45	9:26	H2O2	8%	70	1.7	18	
11/29/18	IW-7C	8:02	8:38	CAT		100	2.8	20	
11/29/18	IW-7C	8:42	9:26	H2O2	8%	80	1.8	10	
11/29/18	IW-45B	8:02	8:24	H2O2	8%	50	2.3	16	
11/29/18	IW-15D	8:02	8:25	CAT		50	2.2	62	
11/29/18	IW-15D	8:29	8:53	H2O2	8%	50	2.1	68	
11/29/18	IW-4C	8:02	8:42	CAT		100	2.5	34	
11/29/18	IW-4C	8:46	9:26	H2O2	8%	100	2.5	20	
11/29/18	IW-6C	8:02	8:38	CAT		100	2.8	20	
11/29/18	IW-6C	8:42	9:26	H2O2	8%	100	2.3	14	
11/29/18	IW-20C	8:42	9:19	CAT		100	2.7	14	
11/29/18	IW-20C	9:37	10:37	H2O2	8%	100	1.7	14	
11/29/18	IW-55B	9:01	9:23	CAT		50	2.3	95	
11/29/18	IW-3C	9:51	10:30	CAT		100	2.6	14	
11/29/18	IW-3C	10:34	11:16	H2O2	8%	100	2.4	22	
11/29/18	IW-5C	9:51	10:30	CAT		100	2.6	18	
11/29/18	IW-5C	10:34	11:16	H2O2	8%	100	2.4	20	
11/29/18	IW-24C	9:51	10:18	H2O2	8%	20	0.7	100	100 psi after 20 gallons
11/29/18	IW-18C	9:51	10:21	H2O2	8%	50	1.7	60	
11/29/18	IW-18C	10:25	10:52	CAT		50	1.9	60	
11/29/18	IW-46B	9:51	10:34	CAT		100	2.3	40	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/29/18	IW-23C	10:21	11:00	H2O2	8%	50	1.3	14	
11/29/18	IW-23C	11:04	11:29	CAT		50	2.0	20	
11/29/18	IW-45A	10:37	11:30	CAT		100	1.9	48	
11/29/18	IW-26C	10:57	11:26	H2O2	8%	25	0.9	100	100 psi after 25 gallons
11/29/18	IW-47A	11:03	12:03	CAT		100	1.7	68	
11/29/18	IW-3C	11:24	12:03	CAT		100	2.6	24	
11/29/18	IW-3C	12:07	12:46	H2O2	8%	100	2.6	20	
11/29/18	IW-2C	11:24	12:03	CAT		100	2.6	14	
11/29/18	IW-2C	12:07	12:46	H2O2	8%	100	2.6	12	
11/29/18	IW-42A	11:39	12:23	CAT		100	2.3	12	
11/29/18	IW-11C	11:39	12:08	H2O2	8%	50	1.7	38	
11/29/18	IW-11C	12:12	13:13	CAT		100	1.6	60	
11/29/18	IW-16D	11:43	12:38	H2O2	8%	50	0.9	94	
11/29/18	IW-48A	12:20	12:31	H2O2	8%	25	2.3	14	surfaced 6 feet southwest along footing
11/29/18	IW-42A	12:28	13:31	H2O2	8%	100	1.6	22	
11/29/18	IW-47A	12:36	13:27	H2O2	8%	100	2.0	14	
11/29/18	IW-7C	12:47	12:58	H2O2	8%	20	1.8	24	
11/29/18	IW-8C	13:10	13:53	CAT		100	2.3	10	
11/29/18	IW-8C	13:57	14:38	H2O2	8%	100	2.4	10	
11/29/18	IW-1C	13:10	13:50	CAT		100	2.5	10	
11/29/18	IW-1C	13:54	14:38	H2O2	8%	100	2.3	14	
11/29/18	IW-21C	13:13	14:08	H2O2	8%	50	0.9	70	
11/29/18	IW-10C	13:28	14:02	CAT		50	1.5	40	
11/29/18	IW-10C	14:06	14:31	H2O2	8%	50	2.0	46	
11/29/18	IW-2D	13:49	14:32	H2O2	8%	50	1.2	96	
11/29/18	IW-46B	13:57	14:36	H2O2	8%	70	1.8	32	surfaced 15 feet southeast
11/29/18	IW-8D	14:14	14:39	H2O2	8%	50	2.0	4	
11/29/18	IW-8D	14:43	15:08	CAT		50	2.0	4	
11/29/18	IW-45A	14:42	15:19	H2O2	8%	50	1.4	60	
11/29/18	IW-13D	14:57	15:34	CAT		100	2.7	30	
11/29/18	IW-13D	15:38	16:17	H2O2	8%	100	2.6	28	
11/29/18	IW-11D	14:57	15:55	CAT		100	1.7	76	
11/29/18	IW-4D	14:57	15:44	H2O2	8%	100	2.1	20	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/29/18	IW-2C	15:04	15:23	CAT		50	2.6	16	
11/29/18	IW-2C	15:27	15:46	H2O2	8%	50	2.6	16	
11/29/18	IW-28C	15:22	15:52	H2O2	8%	25	0.8	100	100 psi after 25 gallons
11/29/18	IW-4D	15:50	16:11	CAT		50	2.4	22	
11/29/18	IW-6D	15:34	15:53	CAT		50	2.6	16	
11/29/18	IW-6D	15:57	16:24	H2O2	8%	50	1.9	12	
11/29/18	IW-27C	15:54	16:14	H2O2	8%	15	0.7	100	100 psi after 15 gallons
11/29/18	IW-4C	16:00	16:18	CAT		50	2.8	18	
11/29/18	IW-4C	16:22	16:42	H2O2	8%	50	2.5	22	
11/30/18	IW-11D	7:46	8:55	H2O2	8%	100	1.4	76	
11/30/18	IW-6C	7:46	8:09	CAT		50	2.2	18	
11/30/18	IW-6C	8:13	8:35	H2O2	8%	50	2.3	18	
11/30/18	IW-6D	7:46	8:11	CAT		50	2.0	32	
11/30/18	IW-6D	8:15	8:39	H2O2	8%	50	2.1	32	
11/30/18	IW-12D	7:46	8:36	CAT		100	2.0	86	
11/30/18	IW-4D	7:46	8:27	CAT		100	2.4	30	
11/30/18	IW-4D	8:31	9:16	H2O2	8%	100	2.2	30	
11/30/18	IW-45A	7:46	8:11	H2O2	8%	50	2.0	30	
11/30/18	IW-42A	8:26	8:51	CAT		50	2.0	18	
11/30/18	IW-42A	8:55	9:08	H2O2	8%	25	1.9	18	surfaced 5 feet north
11/30/18	IW-8C	8:53	9:11	CAT		50	2.8	14	
11/30/18	IW-8C	9:15	9:35	H2O2	8%	50	2.5	14	
11/30/18	IW-10D	8:53	9:31	CAT		100	2.6	2	
11/30/18	IW-10D	9:35	10:30	H2O2	8%	100	1.8	20	
11/30/18	IW-3C	8:53	9:31	CAT		100	2.6	26	
11/30/18	IW-3C	9:35	10:15	H2O2	8%	100	2.5	20	
11/30/18	IW-2D	9:03	9:39	H2O2	8%	50	1.4	88	
11/30/18	IW-56B	9:11	9:38	H2O2	8%	25	0.9	80	
11/30/18	IW-16D	9:30	10:00	CAT		25	0.8	100	100 psi after 25 gallons
11/30/18	IW-55B	9:40	9:51	H2O2	8%	15	1.4	100	100 psi after 15 gallons
11/30/18	IW-9C	9:51	10:37	CAT		100	2.2	26	
11/30/18	IW-13D	9:51	10:15	H2O2	8%	50	2.1	40	
11/30/18	IW-13D	10:19	10:39	CAT		50	2.5	42	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/30/18	IW-3C	10:19	10:39	CAT		50	2.5	18	
11/30/18	IW-3C	10:43	11:01	H2O2	8%	50	2.8	18	
11/30/18	IW-11C	11:19	12:04	CAT		100	2.2	40	
11/30/18	IW-20C	10:33	11:24	CAT		100	2.0	32	
11/30/18	IW-7D	10:58	11:38	CAT		100	2.5	32	
11/30/18	IW-7D	11:42	12:34	H2O2	8%	100	1.9	28	
11/30/18	IW-1D	10:58	11:34	CAT		75	2.1	40	surfaced 9 feet northwest
11/30/18	IW-14D	10:58	11:42	CAT		100	2.3	32	
11/30/18	IW-14D	11:46	12:30	H2O2	8%	100	2.3	50	
11/30/18	IW-3D	11:46	12:25	CAT		100	2.6	28	
11/30/18	IW-3D	12:29	13:06	H2O2	8%	100	2.7	32	
11/30/18	IW-21C	11:57	12:52	CAT		100	1.8	90	
11/30/18	IW-12C	12:12	12:58	CAT		100	2.2	38	
11/30/18	IW-7C	12:29	13:15	CAT		100	2.2	28	
11/30/18	IW-7C	13:19	14:11	H2O2	8%	100	1.9	12	
11/30/18	IW-9D	12:47	13:22	CAT		50	1.4	26	
11/30/18	IW-9D	13:26	13:59	H2O2	8%	50	1.5	26	
11/30/18	IW-23C	13:06	13:49	CAT		100	2.3	18	
11/30/18	IW-18C	13:06	13:59	CAT		100	1.9	60	
11/30/18	IW-10C	13:13	13:49	CAT		100	2.8	38	
11/30/18	IW-24B	13:24	13:31	CAT		10	1.4		surfaced 6 feet north
11/30/18	IW-24C	14:04	14:21	CAT		15	0.9	100	100 psi after 15 gallons
11/30/18	IW-15C	14:04	15:01	CAT		100	1.8	50	
11/30/18	IW-7C	14:16	14:41	CAT		50	2.0	14	
11/30/18	IW-7C	14:45	15:12	H2O2	8%	50	1.9	14	
11/30/18	IW-10D	14:18	14:46	H2O2	8%	50	1.8	38	
11/30/18	IW-11C	14:26	15:10	H2O2	8%	50	1.1	64	
11/30/18	IW-11D	14:35	15:03	CAT		50	1.8	60	
11/30/18	IW-11D	15:07	15:36	H2O2	8%	50	1.7	52	
11/30/18	IW-2D	14:35	15:06	CAT		50	1.6	80	
11/30/18	IW-20C	15:00	16:00	H2O2	8%	100	1.7	42	
11/30/18	IW-14D	15:14	15:44	CAT		50	1.7	50	
11/30/18	IW-14D	15:48	16:18	H2O2	8%	50	1.7	52	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/30/18	IW-18C	15:23	16:00	H2O2	8%	50	1.4	40	
11/30/18	IW-12C	15:23	15:56	H2O2	8%	50	1.5	32	surfaced 12 feet south
11/30/18	IW-12D	13:34	16:18	H2O2	8%	50	0.3	100	100 psi after 25 gallons
12/01/18	IW-2D	8:00	8:35	H2O2	8%	50	1.4	80	
12/01/18	IW-11D	8:00	8:27	CAT		50	1.9	24	
12/01/18	IW-11D	8:31	9:08	H2O2	8%	50	1.4	44	
12/01/18	IW-21C	8:00	8:54	H2O2	8%	50	0.9	70	
12/01/18	IW-15C	8:00	8:36	H2O2	8%	50	1.4	50	
12/01/18	IW-23C	8:00	8:22	H2O2	8%	50	2.3	24	
12/01/18	IW-12D	8:00	8:35	H2O2	8%	30	0.9	100	100 psi after 30 gallons
12/01/18	IW-10C	8:28	9:06	H2O2	8%	50	1.3	32	
12/01/18	IW-7C	8:59	9:42	H2O2	8%	100	2.3	22	
12/01/18	IW-7C	9:46	10:24	CAT		100	2.6	18	
12/01/18	IW-9C	9:02	9:28	H2O2	8%	50	1.9	24	
12/01/18	IW-7D	8:59	9:25	CAT		50	1.9	32	
12/01/18	IW-7D	9:29	10:01	H2O2	8%	50	1.6	32	
12/01/18	IW-18C	9:16	9:56	H2O2	8%	50	1.3	56	
12/01/18	IW-11D	9:13	9:36	CAT		50	2.2	40	
12/01/18	IW-11D	9:41	10:00	H2O2	8%	50	2.6	28	
12/01/18	IW-5D	9:28	10:01	H2O2	8%	50	1.5	32	
12/01/18	IW-31A	9:48	10:13	H2O2	8%	50	2.0	18	
12/01/18	IW-3D	10:08	10:34	H2O2	8%	50	1.9	38	
12/01/18	IW-3D	10:39	11:05	CAT		50	1.9	38	
12/01/18	IW-43B	10:19	10:56	H2O2	8%	50	1.4	42	
12/01/18	IW-20C	10:19	10:58	H2O2	8%	50	1.3	48	
12/01/18	IW-11C	10:19	11:01	H2O2	8%	50	1.2	66	
12/01/18	IW-45B	10:41	11:10	H2O2	8%	50	1.7	18	
12/01/18	IW-23C	10:51	11:24	H2O2	8%	50	1.5	22	
12/01/18	IW-3D	11:14	11:45	CAT		50	1.6	26	
12/01/18	IW-3D	12:00	12:26	H2O2	8%	50	1.9	30	
12/01/18	IW-46A	11:36	12:20	H2O2	8%	50	1.1	50	
12/01/18	IW-56A	11:36	12:24	CAT		50	1.0	62	
12/01/18	IW-15C	11:36	12:22	H2O2	8%	50	1.1	64	

Table 4
Daily Injection Summary
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/01/18	IW-54A	11:36	12:24	CAT		100	2.1	4	
12/01/18	IW-44B	11:52	12:22	H2O2	8%	50	1.7	28	
12/01/18	IW-10C	12:49	13:33	H2O2	8%	50	1.1	34	
12/01/18	IW-43B	12:49	13:23	H2O2	8%	40	1.2	64	surfaced 20 feet northwest
12/01/18	IW-41B	12:57	14:00	H2O2	8%	50	0.8	60	
12/01/18	IW-2D	12:49	13:28	H2O2	8%	50	1.3	44	
12/01/18	IW-5D	12:57	13:23	H2O2	8%	40	1.5	36	surfaced 6 feet north
12/01/18	IW-2D	13:41	14:12	CAT		50	1.6	92	
12/01/18	IW-56A	13:53	14:29	H2O2	8%	50	1.4	100	100 psi after 50 gallons
12/01/18	IW-9C	14:30	14:58	H2O2	8%	50	1.8	38	
12/01/18	IW-12D	14:30	14:54	CAT		25	1.0	100	100 psi after 25 gallons

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2, value in concentration column represents hydrogen peroxide concentration

Table 5
Injection Well Reagent Totals
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1A	350	350	700	2.6	18	
IW-2A	350	350	700	2.3	20	
IW-3A	350	350	700	2.5	14	
IW-4A	350	350	700	2.4	20	
IW-5A	350	350	700	2.3	18	
IW-6A	350	350	700	2.1	10	
IW-7A	350	350	700	2.5	24	
IW-8A	350	350	700	2.3	10	
IW-9A	350	350	700	2.4	26	
IW-10A	350	350	700	2.0	12	
IW-11A	350	350	700	2.6	18	
IW-12A	350	350	700	2.6	16	
IW-13A	350	350	700	2.4	26	
IW-14A	350	350	700	2.2	18	
IW-15A	350	350	700	2.4	28	
IW-16A	350	350	700	2.6	12	
IW-17A	350	350	700	2.5	14	
IW-18A	350	350	700	2.5	14	
IW-19A	350	350	700	2.2	14	
IW-20A	350	350	700	2.5	22	
IW-21A	350	350	700	2.4	18	
IW-22A	350	350	700	2.3	18	
IW-23A	350	350	700	2.8	20	
IW-24A	350	350	700	2.1	18	
IW-25A	350	350	700	2.3	16	
IW-26A	350	350	700	2.1	18	
IW-27A	350	350	700	2.4	18	
IW-28A	350	350	700	2.0	14	
IW-29A	350	350	700	2.3	16	
IW-30A	350	350	700	2.3	18	
IW-31A	250	175	425	1.9	20	x
IW-32A	50	35	85	2.0	10	x
IW-33A	350	350	700	2.7	14	
IW-34A	70	30	100	2.1	24	x
IW-35A	75	35	110	2.3	24	x
IW-36A	10	0	10	2.0	6	x
IW-37A	55	0	55	2.7	10	x
IW-38A	30	0	30	2.3	0	x
IW-39A	100	20	120	2.6	6	x
IW-40A	135	100	235	1.9	20	x
IW-41A	350	350	700	2.4	20	
IW-42A	350	325	675	2.2	40	x
IW-43A	150	150	300	1.9	20	x
IW-44A	100	50	150	1.7	7	x
IW-45A	200	200	400	1.9	68	
IW-46A	150	135	285	1.7	50	x
IW-47A	250	250	500	1.5	72	

Table 5
Injection Well Reagent Totals
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-48A	50	25	75	1.9	18	x
IW-50A	50	30	80	1.5	32	x
IW-51A	50	50	100	1.7	16	x
IW-52A	100	100	200	2.3	12	x
IW-53A	350	350	700	2.3	28	
IW-54A	150	100	250	2.0	20	
IW-55A	70	35	105	2.5	10	x
IW-56A	200	200	400	1.5	100	
IW-57A	50	25	75	2.0	20	x
IW-58A	350	350	700	2.3	48	
IW-1B	350	350	700	2.8	22	
IW-2B	350	350	700	2.5	32	
IW-3B	350	350	700	2.7	14	
IW-4B	350	350	700	2.6	20	
IW-5B	350	350	700	2.8	16	
IW-6B	350	350	700	2.6	16	
IW-7B	350	350	700	2.7	20	
IW-8B	350	350	700	2.4	22	
IW-9B	350	350	700	2.5	18	
IW-10B	350	350	700	2.3	60	
IW-11B	350	350	700	2.7	20	
IW-12B	350	350	700	2.4	18	
IW-13B	350	350	700	2.5	18	
IW-14B	350	350	700	2.6	18	
IW-15B	350	350	700	2.4	20	
IW-16B	350	350	700	2.6	16	
IW-17B	300	300	600	2.6	14	
IW-18B	350	350	700	2.4	20	
IW-19B	350	350	700	2.7	22	
IW-20B	350	350	700	2.5	12	
IW-21B	350	350	700	2.6	22	
IW-22B	350	350	700	2.8	20	
IW-23B	100	35	135	2.3	10	x
IW-24B	110	100	210	2.1	10	x
IW-25B	350	350	700	2.5	18	
IW-26B	350	350	700	2.8	18	
IW-27B	350	350	700	2.3	20	
IW-28B	100	50	150	2.4	38	x
IW-29B	350	350	700	2.7	14	
IW-30B	350	350	700	2.6	16	
IW-31B	350	350	700	2.7	22	
IW-32B	350	350	700	2.6	60	
IW-33B	350	350	700	2.7	12	
IW-34B	100	50	150	2.3	60	x
IW-35B	75	10	85	2.3	28	x
IW-36B	100	50	150	1.5	76	
IW-37B	100	50	150	2.2	48	x

Table 5
Injection Well Reagent Totals
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-38B	100	50	150	1.5	36	x
IW-39B	350	350	700	2.5	18	
IW-40B	100	30	130	1.2	90	x
IW-41B	100	100	200	1.5	62	
IW-42B	75	20	95	1.6	42	x
IW-43B	100	140	240	1.4	64	x
IW-44B	100	100	200	1.7	40	
IW-45B	90	100	190	2.0	48	x
IW-46B	300	270	570	2.2	40	x
IW-47B	200	200	400	2.4	15	x
IW-48B	350	350	700	2.5	18	
IW-49B	350	350	700	2.7	22	
IW-50B	350	350	700	2.5	20	
IW-51B	350	350	700	2.5	22	
IW-52B	350	350	700	2.8	30	
IW-53B	350	350	700	2.6	24	
IW-54B	5	0	5	0.5	90	
IW-55B	50	15	65	1.8	100	
IW-56B	100	75	175	1.7	80	
IW-1C	350	350	700	2.6	14	
IW-2C	350	350	700	2.7	16	
IW-3C	350	350	700	2.6	26	
IW-4C	350	350	700	2.6	34	
IW-5C	350	350	700	2.4	24	
IW-6C	350	350	700	2.5	20	
IW-7C	350	350	700	2.1	28	
IW-8C	350	350	700	2.5	16	
IW-9C	350	350	700	2.4	38	
IW-10C	250	250	500	1.7	90	
IW-11C	300	300	600	1.7	66	
IW-12C	350	250	600	2.0	68	x
IW-13C	100	50	150	2.9	18	x
IW-14C	50	50	100	2.0	52	x
IW-15C	200	200	400	1.4	80	
IW-16C	100	20	120	2.0	84	x
IW-17C	100	100	200	1.7	54	x
IW-18C	250	250	500	1.6	70	
IW-19C	30	0	30	1.9	76	x
IW-20C	200	250	450	1.9	48	
IW-21C	100	100	200	1.2	90	
IW-22C	10	0	10	1.1	100	
IW-23C	250	250	500	1.9	84	
IW-24C	90	70	160	1.2	100	
IW-25C	40	0	40	1.9	24	x
IW-26C	50	25	75	1.0	100	
IW-27C	50	15	65	1.0	100	
IW-28C	50	25	75	1.1	100	

Table 5
Injection Well Reagent Totals
ISCO Second Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1D	175	70	245	2.1	40	x
IW-2D	300	300	600	1.5	96	
IW-3D	350	350	700	2.1	38	
IW-4D	350	350	700	2.1	58	
IW-5D	100	160	260	1.9	36	x
IW-6D	350	350	700	1.9	32	
IW-7D	350	350	700	2.3	32	
IW-8D	350	350	700	2.5	24	
IW-9D	350	350	700	2.2	40	
IW-10D	350	350	700	2.3	38	
IW-11D	350	350	700	1.8	80	
IW-12D	225	180	405	1.1	100	
IW-13D	350	350	700	2.4	42	
IW-14D	350	350	700	2.1	52	
IW-15D	350	350	700	2.3	68	
IW-16D	65	50	115	0.9	100	
	39935	**38280**	**78215**	**2.2**	**100**	**41**

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2 columns, percentage represents hydrogen peroxide concentration

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/18/18	IW-7B	8:34	9:12	CAT		100	2.6	0	
12/18/18	IW-7B	9:21	9:58	H2O2	8%	100	2.7	10	
12/18/18	IW-21B	8:34	9:12	CAT		100	2.6	14	
12/18/18	IW-21B	9:21	9:58	H2O2	8%	100	2.7	20	
12/18/18	IW-39A	8:34	8:58	CAT		60	2.5	12	surfaced 9 feet north
12/18/18	IW-32A	8:34	8:47	CAT		30	2.3	12	surfaced 5 feet west at ERH well
12/18/18	IW-37A	9:04	9:14	CAT		25	2.5	6	surfaced 6 feet southeast
12/18/18	IW-44A	9:04	9:59	CAT		100	1.8	2	
12/18/18	IW-6D	9:24	10:06	CAT		100	2.4	10	
12/18/18	IW-6D	10:10	11:04	H2O2	8%	100	1.9	6	
12/18/18	IW-8D	9:42	10:16	CAT		100	2.9	0	
12/18/18	IW-8D	10:20	11:00	H2O2	8%	100	2.5	2	
12/18/18	IW-2D	9:33	10:29	CAT		100	1.8	46	
12/18/18	IW-2D	10:33	11:23	H2O2	8%	50	1.0	84	
12/18/18	IW-7B	10:02	10:50	CAT		100	2.1	14	
12/18/18	IW-7B	10:54	11:48	H2O2	8%	100	1.9	14	
12/18/18	IW-21B	10:02	10:50	CAT		100	2.1	14	
12/18/18	IW-21B	10:54	11:42	H2O2	8%	100	2.1	18	
12/18/18	IW-49B	10:19	10:58	CAT		100	2.6	20	
12/18/18	IW-49B	11:02	11:42	H2O2	8%	100	2.5	20	
12/18/18	IW-8D	11:04	11:50	CAT		100	2.2	10	
12/18/18	IW-8D	11:54	12:38	H2O2	8%	100	2.3	20	
12/18/18	IW-6D	11:08	12:06	CAT		100	1.7	36	
12/18/18	IW-6D	12:10	12:37	H2O2	8%	50	1.9	52	
12/18/18	IW-16D	11:32	12:27	CAT		50	0.9	94	
12/18/18	IW-14B	12:03	12:40	CAT		100	2.7	0	
12/18/18	IW-14B	12:44	13:29	H2O2	8%	100	2.2	0	
12/18/18	IW-5B	12:03	12:40	CAT		100	2.7	12	
12/18/18	IW-5B	12:44	13:29	H2O2	8%	100	2.2	12	
12/18/18	IW-51B	12:03	12:39	CAT		100	2.8	8	
12/18/18	IW-51B	12:43	13:47	H2O2	8%	100	1.6	20	
12/18/18	IW-13D	12:32	13:15	CAT		100	2.3	12	
12/18/18	IW-13D	13:25	14:33	H2O2	8%	100	1.5	36	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/18/18	IW-4D	12:48	13:32	CAT		100	2.3	24	
12/18/18	IW-4D	13:36	14:25	H2O2	8%	100	2.0	44	
12/18/18	IW-10D	12:48	13:23	CAT		100	2.9	30	
12/18/18	IW-10D	13:32	14:19	H2O2	8%	100	2.1	38	
12/18/18	IW-14B	13:33	14:15	CAT		100	2.4	16	
12/18/18	IW-14B	14:19	15:55	H2O2	8%	100	1.0	20	
12/18/18	IW-5B	13:33	14:15	CAT		100	2.4	20	
12/18/18	IW-5B	14:19	15:48	H2O2	8%	100	1.1	18	
12/18/18	IW-50B	13:59	14:55	CAT		100	1.8	16	
12/18/18	IW-50B	14:59	15:44	H2O2	8%	100	2.2	18	
12/18/18	IW-9D	14:41	16:00	CAT		50	0.6	24	
12/18/18	IW-5D	14:41	15:06	CAT		50	2.0	24	surfaced 9 feet northwest
12/18/18	IW-14D	14:46	15:36	CAT		100	2.0	40	
12/18/18	IW-26C	15:22	15:44	CAT		25	1.1	100	100 psi at 25 gallons
12/19/18	IW-22A	8:05	8:40	CAT		100	2.9	4	
12/19/18	IW-22A	8:45	9:27	H2O2	8%	100	2.4	14	
12/19/18	IW-8A	8:05	8:40	CAT		100	2.9	0	
12/19/18	IW-8A	8:45	9:27	H2O2	8%	100	2.4	10	
12/19/18	IW-32B	8:05	8:40	CAT		100	2.9	14	
12/19/18	IW-32B	8:45	9:30	H2O2	8%	100	2.2	14	
12/19/18	IW-14D	8:05	9:00	H2O2	8%	100	1.8	60	
12/19/18	IW-9D	8:05	8:22	CAT		50	2.9	30	
12/19/18	IW-9D	8:26	9:13	H2O2	8%	100	2.1	46	
12/19/18	IW-8B	8:39	9:19	CAT		100	2.5	8	
12/19/18	IW-8B	9:23	10:05	H2O2	8%	100	2.4	28	
12/19/18	IW-30B	9:11	10:01	CAT		100	2.0	10	
12/19/18	IW-30B	10:07	11:11	H2O2	8%	100	1.6	18	
12/19/18	IW-7D	9:23	10:11	CAT		100	2.1	32	
12/19/18	IW-7D	10:20	11:15	H2O2	8%	100	1.8	36	
12/19/18	IW-22A	9:31	10:10	CAT		100	2.6	16	
12/19/18	IW-22A	10:17	10:55	H2O2	8%	100	2.6	16	
12/19/18	IW-8A	9:31	10:10	CAT		100	2.6	10	
12/19/18	IW-8A	10:17	10:55	H2O2	8%	100	2.6	14	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/19/18	IW-32B	9:36	10:17	CAT		100	2.4	14	
12/19/18	IW-32B	10:20	10:59	H2O2	8%	100	2.6	12	
12/19/18	IW-8B	10:13	11:00	CAT		100	2.1	24	
12/19/18	IW-8B	11:05	11:45	H2O2	8%	100	2.5	30	surfaced 6 feet east
12/19/18	IW-12D	11:27	12:50	CAT		100	1.2	80	
12/19/18	IW-27B	11:07	11:45	CAT		100	2.6	6	
12/19/18	IW-27B	11:52	12:29	H2O2	8%	100	2.7	16	
12/19/18	IW-15A	11:07	11:45	CAT		100	2.6	0	
12/19/18	IW-15A	11:52	12:29	H2O2	8%	100	2.7	20	
12/19/18	IW-39B	11:10	11:50	CAT		100	2.5	10	
12/19/18	IW-39B	11:59	12:38	H2O2	8%	100	2.6	16	
12/19/18	IW-30B	11:18	12:04	CAT		100	2.2	20	
12/19/18	IW-30B	12:08	13:06	H2O2	8%	100	1.7	16	
12/19/18	IW-15B	11:58	12:46	CAT		100	2.1	4	
12/19/18	IW-15B	12:53	13:38	H2O2	8%	100	2.2	16	
12/19/18	IW-15A	12:34	13:14	CAT		100	2.5	26	
12/19/18	IW-15A	13:21	14:01	H2O2	8%	100	2.5	28	
12/19/18	IW-27B	12:34	13:14	CAT		100	2.5	16	
12/19/18	IW-27B	13:21	14:01	H2O2	8%	100	2.5	20	
12/19/18	IW-39B	12:42	13:25	CAT		100	2.3	16	
12/19/18	IW-39B	13:30	14:11	H2O2	8%	100	2.4	16	
12/19/18	IW-28B	13:01	14:12	CAT		100	1.4	26	
12/19/18	IW-28B	14:17	14:33	H2O2	8%	35	2.2	26	surfaced 9 feet southeast
12/19/18	IW-3D	13:13	13:57	CAT		100	2.3	18	
12/19/18	IW-3D	14:12	15:00	H2O2	8%	100	2.1	28	
12/19/18	IW-3B	13:49	14:26	CAT		100	2.7	10	
12/19/18	IW-3B	14:34	15:15	H2O2	8%	100	2.4	10	
12/19/18	IW-2B	14:16	14:59	CAT		100	2.3	0	
12/19/18	IW-2B	15:04	15:44	H2O2	8%	100	2.5	10	
12/19/18	IW-12B	14:16	14:59	CAT		100	2.3	4	
12/19/18	IW-12B	15:04	15:44	H2O2	8%	100	2.5	12	
12/19/18	IW-31B	14:22	15:08	CAT		100	2.2	12	
12/19/18	IW-31B	15:12	15:59	H2O2	8%	100	2.1	14	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/19/18	IW-29B	14:45	15:25	H2O2	8%	100	2.5	14	
12/19/18	IW-29B	15:29	16:17	CAT		100	2.1	14	
12/19/18	IW-11D	15:16	16:08	CAT		100	1.9	30	
12/19/18	IW-11D	16:14	17:01	H2O2	8%	100	2.1	26	
12/19/18	IW-17B	15:29	16:02	CAT		100	3.0	4	
12/19/18	IW-17B	16:14	17:01	H2O2	8%	100	2.1	10	
12/19/18	IW-1B	15:56	16:37	CAT		100	2.4	4	
12/19/18	IW-13B	15:56	16:37	CAT		100	2.4	8	
12/19/18	IW-33B	16:06	16:29	H2O2	8%	50	2.2	4	
12/19/18	IW-33B	16:32	16:53	CAT		50	2.4	8	
12/20/18	IW-1B	7:50	8:27	H2O2	8%	100	2.7	16	surfaced 3 feet north
12/20/18	IW-13B	7:50	8:27	H2O2	8%	100	2.7	16	
12/20/18	IW-9D	7:50	8:32	CAT		100	2.4	36	
12/20/18	IW-9D	8:37	9:35	H2O2	8%	100	1.7	84	
12/20/18	IW-16B	7:50	8:32	CAT		100	2.4	4	
12/20/18	IW-16B	8:37	9:15	H2O2	8%	100	2.6	10	
12/20/18	IW-25B	7:50	8:37	CAT		100	2.1	4	
12/20/18	IW-25B	8:43	9:24	H2O2	8%	100	2.4	16	
12/20/18	IW-20B	7:50	8:30	CAT		100	2.5	2	
12/20/18	IW-20B	8:42	9:24	H2O2	8%	100	2.4	14	
12/20/18	IW-10B	8:45	9:20	CAT		100	2.9	30	
12/20/18	IW-10B	9:33	10:14	H2O2	8%	100	2.4	34	
12/20/18	IW-52B	8:45	9:20	CAT		100	2.9	10	
12/20/18	IW-52B	9:33	10:14	H2O2	8%	100	2.4	14	
12/20/18	IW-22B	9:31	10:00	CAT		100	3.4	8	
12/20/18	IW-22B	10:07	10:40	H2O2	8%	100	3.0	14	
12/20/18	IW-33B	9:40	10:21	CAT		100	2.4	8	
12/20/18	IW-33B	10:40	11:14	H2O2	8%	100	2.9	16	
12/20/18	IW-19B	9:40	10:14	CAT		100	2.9	18	
12/20/18	IW-19B	10:39	11:10	H2O2	8%	100	3.2	18	
12/20/18	IW-6D	9:47	10:12	CAT		50	2.0	22	
12/20/18	IW-6D	10:16	11:10	H2O2	8%	100	1.9	58	
12/20/18	IW-26B	10:30	11:06	CAT		100	2.8	10	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/20/18	IW-26B	11:12	11:51	H2O2	8%	100	2.6	10	
12/20/18	IW-9B	10:30	11:06	CAT		100	2.8	10	
12/20/18	IW-9B	11:12	11:51	H2O2	8%	100	2.6	10	
12/20/18	IW-12D	11:24	11:57	H2O2	8%	40	1.2	100	100 psi at 40 gallons
12/20/18	IW-2D	11:33	12:19	H2O2	8%	50	1.1	74	
12/20/18	IW-4D	11:41	12:32	CAT		100	2.0	44	
12/20/18	IW-4D	12:37	13:28	H2O2	8%	100	2.0	58	
12/20/18	IW-23B	11:41	12:25	CAT		100	2.3	24	
12/20/18	IW-23B	12:33	13:13	H2O2	8%	100	2.5	28	surfaced 9 feet southeast at ERH well
12/20/18	IW-32B	12:20	12:38	CAT		50	2.8	10	
12/20/18	IW-32B	12:42	13:01	H2O2	8%	50	2.6	12	
01/03/19	IW-7B	8:47	9:28	H2O2	8%	100	2.4	8	
01/03/19	IW-7B	9:33	11:25	CAT		100	0.9	18	
01/03/19	IW-21B	8:47	9:28	H2O2	8%	100	2.4	10	
01/03/19	IW-21B	9:33	10:28	CAT		100	1.8	16	
01/03/19	IW-30B	8:47	9:31	CAT		100	2.3	8	
01/03/19	IW-30B	9:36	10:37	H2O2	8%	100	1.6	16	
01/03/19	IW-28B	8:47	9:31	CAT		100	2.3	20	
01/03/19	IW-51B	8:47	9:30	CAT		100	2.3	8	
01/03/19	IW-51B	9:35	10:33	H2O2	8%	100	1.7	12	
01/03/19	IW-32B	8:47	9:31	CAT		100	2.3	6	
01/03/19	IW-32B	9:36	10:49	H2O2	8%	100	1.4	10	
01/03/19	IW-4D	9:47	10:53	CAT		100	1.5	40	
01/03/19	IW-27B	11:24	12:12	H2O2	8%	100	2.1	10	
01/03/19	IW-27B	12:17	13:20	CAT		100	1.6	20	
01/03/19	IW-29B	11:24	12:09	CAT		100	2.2	4	
01/03/19	IW-29B	12:17	13:16	H2O2	8%	100	1.7	10	
01/03/19	IW-49B	11:24	12:13	CAT		100	2.0	16	
01/03/19	IW-49B	12:17	13:16	H2O2	8%	100	1.7	14	surfaced 6 feet northeast
01/03/19	IW-31B	11:24	12:13	CAT		100	2.0	8	
01/03/19	IW-31B	12:17	13:41	H2O2	8%	100	1.2	22	
01/03/19	IW-54A	11:24	12:05	CAT		100	2.4	4	
01/03/19	IW-14B	11:39	12:27	H2O2	8%	100	2.1	0	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/03/19	IW-14B	12:31	13:28	CAT		100	1.8	12	
01/03/19	IW-15B	12:14	13:16	CAT		100	1.6	10	
01/03/19	IW-15B	13:31	14:26	H2O2	8%	100	1.8	28	
01/03/19	IW-23B	13:29	14:18	CAT		100	2.0	32	
01/03/19	IW-50B	13:29	14:21	CAT		100	1.9	10	
01/03/19	IW-50B	14:25	15:22	H2O2	8%	100	1.8	18	
01/03/19	IW-5B	13:38	14:21	H2O2	8%	100	2.3	10	
01/03/19	IW-5B	14:25	15:32	CAT		150	2.2	14	
01/03/19	IW-33B	13:38	14:21	H2O2	8%	100	2.3	14	
01/03/19	IW-33B	14:25	15:32	CAT		150	2.2	16	
01/03/19	IW-3D	13:50	14:53	CAT		100	1.6	18	
01/03/19	IW-3D	14:58	16:05	H2O2	8%	100	1.5	24	
01/03/19	IW-9B	14:26	15:16	CAT		100	2.0	8	
01/03/19	IW-9B	15:21	16:17	H2O2	8%	100	1.8	20	
01/03/19	IW-4D	14:35	15:48	H2O2	8%	100	1.4	64	
01/03/19	IW-19C	15:40	16:01	CAT		35	1.7	28	surfaced 12 feet southeast
01/03/19	IW-5B	15:45	16:15	H2O2	8%	50	1.7	20	
01/03/19	IW-33B	15:45	16:15	H2O2	8%	50	1.7	24	
01/03/19	IW-12C	15:57	16:23	CAT		50	1.9	24	
01/03/19	IW-14C	16:06	16:19	CAT		25	1.9	38	
01/04/19	IW-20B	7:47	8:36	H2O2	8%	100	2.0	4	
01/04/19	IW-20B	8:40	9:24	CAT		100	2.3	10	
01/04/19	IW-4B	7:47	8:32	H2O2	8%	100	2.2	4	
01/04/19	IW-4B	8:36	9:25	CAT		100	2.0	20	
01/04/19	IW-18B	7:47	8:32	CAT		100	2.2	2	
01/04/19	IW-18B	8:36	9:37	H2O2	8%	100	1.6	20	
01/04/19	IW-14C	7:47	8:32	CAT		100	2.2	40	
01/04/19	IW-12C	7:47	8:33	CAT		100	2.2	24	
01/04/19	IW-16B	7:47	8:30	CAT		100	2.3	8	
01/04/19	IW-16B	8:34	9:23	H2O2	8%	100	2.0	8	
01/04/19	IW-8D	8:48	9:33	H2O2	8%	100	2.2	10	
01/04/19	IW-8D	9:37	10:26	CAT		100	2.0	10	
01/04/19	IW-6D	8:48	9:42	H2O2	8%	100	1.9	42	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/04/19	IW-6D	9:46	10:33	CAT		100	2.1	42	
01/04/19	IW-26B	9:34	10:24	H2O2	8%	100	2.0	14	
01/04/19	IW-26B	10:28	11:13	CAT		100	2.2	20	
01/04/19	IW-13B	9:34	10:20	H2O2	8%	100	2.2	12	
01/04/19	IW-13B	10:24	11:13	CAT		100	2.0	16	
01/04/19	IW-17B	9:45	10:29	CAT		100	2.3	6	
01/04/19	IW-17B	10:33	11:32	H2O2	8%	100	1.7	4	
01/04/19	IW-56B	9:45	10:24	CAT		50	1.3	56	
01/04/19	IW-55B	10:26	11:01	CAT		50	1.4	86	
01/04/19	IW-8D	10:30	11:25	H2O2	8%	100	1.8	16	
01/04/19	IW-8D	11:29	11:54	CAT		50	2.0	26	
01/04/19	IW-9D	10:41	11:46	CAT		100	1.5	36	
01/04/19	IW-9D	11:54	12:55	H2O2	8%	100	1.6	72	
01/04/19	IW-46B	11:03	12:08	CAT		100	1.5	52	
01/04/19	IW-15A	11:28	12:15	H2O2	8%	100	2.1	12	
01/04/19	IW-15A	12:29	13:14	CAT		100	2.2	18	
01/04/19	IW-19B	11:28	12:15	H2O2	8%	100	2.1	10	
01/04/19	IW-19B	12:27	13:14	CAT		100	2.1	20	
01/04/19	IW-17A	11:41	12:36	CAT		100	1.8	0	
01/04/19	IW-17A	12:42	13:33	H2O2	8%	100	2.0	10	
01/04/19	IW-13C	12:03	12:33	CAT		65	2.2		surfaced 9 feet southwest
01/04/19	IW-47B	12:11	13:00	CAT		100	2.0	10	
01/04/19	IW-11C	12:40	13:33	CAT		100	1.9	42	
01/04/19	IW-10D	13:05	13:50	CAT		100	2.2	32	
01/04/19	IW-10D	13:55	14:47	H2O2	8%	100	1.9	46	
01/04/19	IW-48B	13:10	13:54	CAT		100	2.3	22	
01/04/19	IW-8A	13:26	14:08	H2O2	8%	100	2.4	4	
01/04/19	IW-8A	14:14	14:54	CAT		100	2.5	4	
01/04/19	IW-22A	13:26	14:08	H2O2	8%	100	2.4	14	
01/04/19	IW-22A	14:14	14:54	CAT		100	2.5	14	
01/04/19	IW-22B	13:46	14:54	CAT		100	1.5	4	
01/04/19	IW-22B	14:59	15:59	H2O2	8%	100	1.7	12	
01/04/19	IW-15C	13:46	14:33	CAT		100	2.1	40	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/04/19	IW-10C	16:03	16:43	CAT		100	2.5	36	
01/04/19	IW-11D	14:40	15:26	CAT		100	2.2	30	
01/04/19	IW-11D	15:31	16:11	H2O2	8%	100	2.5	30	
01/04/19	IW-58A	14:51	15:28	CAT		100	2.7	10	
01/04/19	IW-58A	15:32	16:10	H2O2	8%	100	2.6	8	
01/04/19	IW-20C	15:00	15:43	CAT		100	2.3	28	
01/04/19	IW-2B	15:01	15:44	CAT		100	2.3	8	
01/04/19	IW-2B	15:50	16:28	H2O2	8%	100	2.6	10	
01/04/19	IW-12B	15:01	15:44	CAT		100	2.3	14	
01/04/19	IW-12B	15:50	16:28	H2O2	8%	100	2.6	20	
01/04/19	IW-21C	15:55	16:45	CAT		100	2.0	74	
01/04/19	IW-7C	13:57	16:40	CAT		100	0.6	8	
01/04/19	IW-9C	16:20	16:43	CAT		50	2.2	26	
01/04/19	IW-16A	16:20	16:39	CAT		50	2.6	8	
01/05/19	IW-27B	7:34	8:08	CAT		100	2.9	14	
01/05/19	IW-27B	8:15	8:36	H2O2	8%	50	2.4	12	
01/05/19	IW-14B	7:34	8:08	CAT		100	2.9	12	
01/05/19	IW-14B	8:15	8:36	H2O2	8%	50	2.4	12	
01/05/19	IW-9C	7:34	8:26	H2O2	8%	100	1.9	30	
01/05/19	IW-9C	8:32	8:49	CAT		50	2.9	22	
01/05/19	IW-16A	7:34	8:17	H2O2	8%	100	2.3	16	
01/05/19	IW-16A	8:24	8:28	CAT		10	2.5		surfaced 3 feet south through tubing at ERH well
01/05/19	IW-7C	7:34	8:17	H2O2	8%	100	2.3	12	
01/05/19	IW-7D	7:34	8:25	H2O2	8%	100	2.0	38	
01/05/19	IW-7D	8:31	9:12	CAT		100	2.4	42	
01/05/19	IW-9B	8:26	9:18	H2O2	8%	100	1.9	16	
01/05/19	IW-9B	9:24	9:47	CAT		50	2.2	20	surfaced 12 feet southwest
01/05/19	IW-29B	8:41	9:24	H2O2	8%	100	2.3	20	
01/05/19	IW-29B	9:29	10:07	CAT		100	2.6	16	
01/05/19	IW-21B	8:48	9:09	CAT		50	2.4	10	
01/05/19	IW-21B	9:21	9:44	H2O2	8%	50	2.2	10	
01/05/19	IW-7B	8:48	9:09	CAT		50	2.4	10	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/05/19	IW-7B	9:21	9:44	H2O2	8%	50	2.2	10	
01/05/19	IW-25B	8:55	9:36	CAT		100	2.4	8	
01/05/19	IW-25B	9:42	10:29	H2O2	8%	100	2.1	14	
01/05/19	IW-4D	9:25	10:32	CAT		100	1.5	52	
01/05/19	IW-4D	10:39	11:04	H2O2	8%	50	2.0	64	
01/05/19	IW-24B	9:53	10:40	CAT		100	2.1	10	
01/05/19	IW-6B	10:01	10:37	CAT		100	2.8	8	
01/05/19	IW-6B	10:44	11:25	H2O2	8%	100	2.4	12	
01/05/19	IW-11B	10:01	10:37	CAT		100	2.8	10	
01/05/19	IW-11B	10:44	11:25	H2O2	8%	100	2.4	20	
01/05/19	IW-14D	10:16	11:04	CAT		100	2.1	40	
01/05/19	IW-14D	11:09	12:01	H2O2	8%	100	1.9	44	
01/05/19	IW-26B	10:39	11:21	CAT		100	2.4	12	
01/05/19	IW-26B	11:26	12:27	H2O2	8%	100	1.6	16	
01/05/19	IW-3D	10:50	11:36	CAT		100	2.2	40	
01/05/19	IW-3D	11:41	12:27	H2O2	8%	100	2.2	40	
01/05/19	IW-18C	11:11	12:39	CAT		100	1.1	42	
01/05/19	IW-13B	11:39	12:18	CAT		100	2.6	4	
01/05/19	IW-13B	12:23	13:05	H2O2	8%	100	2.4	10	
01/05/19	IW-5C	11:39	12:18	CAT		100	2.6	16	
01/05/19	IW-5C	12:23	13:05	H2O2	8%	100	2.4	20	
01/05/19	IW-54A	12:14	12:38	H2O2	8%	50	2.1	8	surfaced 15 feet southwest
01/05/19	IW-2D	12:36	13:39	CAT		100	1.6	54	
01/05/19	IW-2D	13:44	14:32	H2O2	8%	100	2.1	72	
01/05/19	IW-33B	12:36	12:58	CAT		50	2.3	10	
01/05/19	IW-33B	13:03	13:25	H2O2	8%	50	2.3	12	
01/05/19	IW-10C	12:45	13:27	H2O2	8%	100	2.4	48	surfaced 15 feet south
01/05/19	IW-23A	12:46	13:27	CAT		100	2.4	10	
01/05/19	IW-23A	13:31	14:18	H2O2	8%	100	2.1	14	
01/05/19	IW-8A	13:17	13:56	CAT		100	2.6	0	
01/05/19	IW-8A	14:05	14:26	H2O2	8%	50	2.4	10	
01/05/19	IW-4C	13:17	13:56	CAT		100	2.6	16	
01/05/19	IW-4C	14:05	14:52	H2O2	8%	100	2.1	20	

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Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/05/19	IW-15C	13:32	14:08	H2O2	8%	50	1.4	85	
01/05/19	IW-11D	13:35	14:17	CAT		100	2.4	30	
01/05/19	IW-11D	14:23	15:01	H2O2	8%	100	2.6	26	
01/05/19	IW-10D	14:13	14:41	H2O2	8%	50	1.8	52	
01/05/19	IW-10D	14:47	15:12	CAT		50	2.0	54	
01/05/19	IW-53A	14:29	15:16	CAT		100	2.1	12	
01/05/19	IW-53A	15:20	16:07	H2O2	8%	100	2.1	28	
01/05/19	IW-7A	14:33	15:15	CAT		100	2.4	0	
01/05/19	IW-7A	15:20	16:07	H2O2	8%	100	2.1	10	
01/05/19	IW-30B	14:38	15:06	CAT		50	1.8	8	
01/05/19	IW-30B	15:12	15:35	H2O2	8%	50	2.2	14	
01/05/19	IW-6C	15:00	15:43	CAT		100	2.3	12	
01/05/19	IW-6C	15:50	16:35	H2O2	8%	100	2.2	14	
01/05/19	IW-18B	15:09	16:03	CAT		100	1.9	10	
01/05/19	IW-18B	16:07	16:48	H2O2	8%	100	2.4	18	
01/05/19	IW-17C	15:19	16:04	CAT		100	2.2	40	
01/05/19	IW-13D	15:43	16:30	CAT		100	2.1	14	
01/05/19	IW-4B	16:18	16:37	CAT		50	2.6	10	
01/06/19	IW-4B	7:43	8:25	H2O2	6%	100	2.4	12	
01/06/19	IW-22A	7:43	8:03	CAT		50	2.5	16	
01/06/19	IW-22A	8:08	8:29	H2O2	6%	50	2.4	16	
01/06/19	IW-13D	7:43	8:33	H2O2	6%	100	2.0	22	
01/06/19	IW-31B	7:43	8:28	CAT		100	2.2	16	
01/06/19	IW-31B	8:32	9:12	H2O2	6%	100	2.5	16	
01/06/19	IW-20C	7:43	8:31	CAT		100	2.1	36	
01/06/19	IW-14C	7:43	8:27	H2O2	6%	100	2.3	42	surfaced 8 feet northwest
01/06/19	IW-6B	8:35	9:17	CAT		100	2.4	10	
01/06/19	IW-6B	9:23	10:03	H2O2	6%	100	2.5	14	
01/06/19	IW-11C	8:39	9:10	H2O2	6%	50	1.6	88	
01/06/19	IW-21C	8:43	9:28	CAT		100	2.2	46	
01/06/19	IW-17B	8:47	9:28	CAT		100	2.4	8	
01/06/19	IW-17B	9:33	10:13	H2O2	6%	100	2.5	8	
01/06/19	IW-15A	8:47	9:05	CAT		50	2.8	16	

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Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/06/19	IW-15A	9:11	9:33	H2O2	6%	50	2.3	16	
01/06/19	IW-39B	9:19	10:04	CAT		100	2.2	8	
01/06/19	IW-39B	10:10	10:55	H2O2	6%	100	2.2	10	
01/06/19	IW-26C	9:16	9:42	H2O2	6%	25	1.0	100	100 psi after 25 gallons
01/06/19	IW-7D	9:37	10:30	CAT		100	1.9	40	
01/06/19	IW-7D	10:35	11:28	H2O2	6%	100	1.9	68	
01/06/19	IW-12B	9:41	10:20	CAT		100	2.6	12	
01/06/19	IW-12B	10:25	11:11	H2O2	6%	100	2.2	12	
01/06/19	IW-12C	9:45	9:58	H2O2	6%	25	1.9	22	surfaced 15 feet south
01/06/19	IW-2B	10:15	10:52	CAT		100	2.7	16	
01/06/19	IW-2B	10:57	11:35	H2O2	6%	100	2.6	16	
01/06/19	IW-28C	10:10	10:37	H2O2	6%	25	0.9	90	
01/06/19	IW-16B	10:21	11:03	CAT		100	2.4	6	
01/06/19	IW-16B	11:09	11:59	H2O2	6%	100	2.0	10	
01/06/19	IW-27C	10:40	11:03	H2O2	6%	25	1.1	100	
01/06/19	IW-56B	11:05	11:22	H2O2	6%	25	1.5	100	
01/06/19	IW-3B	11:09	11:52	CAT		100	2.3	10	
01/06/19	IW-3B	11:57	12:36	H2O2	6%	100	2.6	12	
01/06/19	IW-20B	11:20	11:58	CAT		100	2.6	12	
01/06/19	IW-20B	12:05	12:44	H2O2	6%	100	2.6	20	
01/06/19	IW-55B	11:30	12:11	H2O2	6%	50	1.2	50	
01/06/19	IW-16D	11:40	12:20	H2O2	6%	50	1.3	100	
01/06/19	IW-2C	11:43	12:22	CAT		100	2.6	14	
01/06/19	IW-2C	12:29	13:03	H2O2	6%	100	2.9	14	
01/06/19	IW-15B	12:08	12:59	CAT		100	2.0	2	
01/06/19	IW-15B	13:04	13:51	H2O2	6%	100	2.1	14	
01/06/19	IW-46B	12:15	12:45	H2O2	6%	65	2.2	36	surfaced 9 feet southwest
01/06/19	IW-23C	12:26	13:16	H2O2	6%	100	2.0	14	
01/06/19	IW-23C	13:21	14:11	CAT		100	2.0	22	
01/06/19	IW-3C	12:44	13:30	CAT		100	2.2	20	
01/06/19	IW-3C	13:35	14:10	H2O2	6%	100	2.9	20	
01/06/19	IW-47B	12:56	13:29	H2O2	6%	50	1.5	32	
01/06/19	IW-19B	12:55	13:36	CAT		100	2.4	20	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/06/19	IW-19B	13:40	14:20	H2O2	6%	100	2.5	20	
01/06/19	IW-7A	13:18	13:58	CAT		100	2.5	10	
01/06/19	IW-7A	14:03	14:49	H2O2	6%	100	2.2	10	
01/06/19	IW-48B	13:32	14:24	H2O2	6%	100	1.9	18	
01/06/19	IW-24B	13:59	14:56	H2O2	6%	100	1.8	38	
01/06/19	IW-52B	14:17	14:58	CAT		100	2.4	8	
01/06/19	IW-52B	15:05	15:50	H2O2	6%	100	2.2	16	
01/06/19	IW-22B	14:19	15:00	CAT		100	2.4	10	
01/06/19	IW-22B	15:05	15:48	H2O2	6%	100	2.3	14	
01/06/19	IW-13A	14:30	15:10	CAT		100	2.5	0	
01/06/19	IW-13A	15:19	16:00	H2O2	6%	100	2.4	12	
01/06/19	IW-18C	14:42	15:18	H2O2	6%	50	1.4	44	
01/06/19	IW-12D	15:04	16:05	H2O2	6%	50	0.8	100	
01/06/19	IW-6A	15:04	15:43	CAT		100	2.6	2	
01/06/19	IW-6A	15:49	16:28	H2O2	6%	100	2.6	10	
01/06/19	IW-16C	15:22	15:36	H2O2	6%	15	1.1	90	surfaced 15 feet east
01/06/19	IW-15C	15:46	16:21	H2O2	6%	70	2.0	36	
01/06/19	IW-1C	15:58	16:38	CAT		100	2.5	8	
01/06/19	IW-24C	15:58	16:45	H2O2	6%	50	1.1	86	
01/06/19	IW-12A	16:07	16:43	CAT		100	2.8	12	
01/06/19	IW-23C	16:10	16:45	H2O2	6%	50	1.4	22	
01/07/19	IW-12A	7:42	8:23	H2O2	6%	100	2.4	10	
01/07/19	IW-20B	7:42	8:02	CAT		50	2.5	4	
01/07/19	IW-20B	8:08	8:29	H2O2	6%	50	2.4	8	
01/07/19	IW-1C	7:42	8:23	H2O2	6%	100	2.4	10	
01/07/19	IW-1D	7:42	8:25	CAT		100	2.3	18	
01/07/19	IW-1D	8:33	9:19	H2O2	6%	100	2.2	36	
01/07/19	IW-20C	7:42	8:39	H2O2	6%	100	1.8	58	
01/07/19	IW-29B	7:42	8:05	CAT		50	2.2	20	
01/07/19	IW-29B	8:10	8:32	H2O2	6%	50	2.3	20	
01/07/19	IW-3A	8:34	9:16	CAT		100	2.4	0	
01/07/19	IW-3A	9:22	10:03	H2O2	6%	100	2.4	4	
01/07/19	IW-10B	8:34	9:18	CAT		100	2.3	34	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/07/19	IW-10B	9:23	10:03	H2O2	6%	100	2.5	44	
01/07/19	IW-13B	8:40	9:01	CAT		50	2.4	8	
01/07/19	IW-13B	9:07	9:29	H2O2	6%	50	2.3	8	
01/07/19	IW-14D	8:40	9:35	CAT		100	1.8	36	
01/07/19	IW-14D	9:41	10:32	H2O2	6%	100	2.0	40	
01/07/19	IW-10D	8:48	9:41	H2O2	6%	100	1.9	50	
01/07/19	IW-10D	9:48	10:28	CAT		100	2.5	56	
01/07/19	IW-7C	9:29	10:11	CAT		100	2.4	10	
01/07/19	IW-7C	10:19	11:00	H2O2	6%	100	2.4	20	
01/07/19	IW-6C	9:37	10:24	CAT		100	2.1	28	
01/07/19	IW-6C	10:29	11:06	H2O2	6%	100	2.7	28	
01/07/19	IW-4C	10:13	10:55	CAT		100	2.4	22	
01/07/19	IW-4C	11:01	11:41	H2O2	6%	100	2.5	22	
01/07/19	IW-4A	10:13	10:52	CAT		100	2.6	0	
01/07/19	IW-4A	11:00	11:41	H2O2	6%	100	2.4	10	
01/07/19	IW-18C	10:37	11:10	H2O2	6%	50	1.5	50	
01/07/19	IW-23C	10:41	11:09	CAT		50	1.8	16	
01/07/19	IW-2D	11:08	11:50	CAT		50	1.2	56	
01/07/19	IW-2D	11:54	12:22	H2O2	6%	50	1.8	40	
01/07/19	IW-17C	11:12	11:26	H2O2	6%	25	1.8	36	surfaced 15 feet NW
01/07/19	IW-14A	11:19	11:58	CAT		100	2.6	0	
01/07/19	IW-14A	12:03	12:48	H2O2	6%	100	2.2	10	
01/07/19	IW-22B	11:20	11:46	CAT		50	1.9		
01/07/19	IW-22B	11:50	12:11	H2O2	6%	50	2.4		
01/07/19	IW-21C	11:30	12:19	H2O2	6%	50	1.0	78	
01/07/19	IW-17B	11:45	12:12	CAT		50	1.9	10	
01/07/19	IW-17B	12:17	12:39	H2O2	6%	50	2.3	14	
01/07/19	IW-53B	11:45	12:32	CAT		100	2.1	18	
01/07/19	IW-53B	12:39	13:18	H2O2	6%	100	2.6	20	
01/07/19	IW-15B	12:18	12:40	CAT		50	2.3	8	
01/07/19	IW-15B	12:45	13:09	H2O2	6%	50	2.1	12	
01/07/19	IW-11C	12:25	13:20	H2O2	6%	50	0.9	84	
01/07/19	IW-9C	12:30	13:13	CAT		100	2.3	22	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/07/19	IW-9C	13:19	14:00	H2O2	6%	100	2.4	22	
01/07/19	IW-16B	12:48	13:40	CAT		70	1.3	14	
01/07/19	IW-16B	13:50	14:15	H2O2	6%	50	2.0	12	
01/07/19	IW-14A	12:50	13:29	CAT		100	2.6	10	
01/07/19	IW-14A	13:38	14:26	H2O2	6%	100	2.1	12	
01/07/19	IW-28B	13:20	13:27	H2O2	6%	15	2.1	10	surfaced 6 feet southwest
01/07/19	IW-11D	13:28	13:50	CAT		50	2.3	36	
01/07/19	IW-11D	13:57	14:35	H2O2	6%	100	2.6	36	
01/07/19	IW-47B	13:32	14:01	H2O2	6%	60	2.1	14	
01/07/19	IW-23A	13:39	14:40	H2O2	6%	100	1.6	20	
01/07/19	IW-23A	14:45	15:35	CAT		100	2.0	22	
01/07/19	IW-15D	14:06	15:03	H2O2	6%	100	1.8	56	
01/07/19	IW-15D	15:09	15:59	CAT		100	2.0	62	
01/07/19	IW-8C	14:10	14:48	CAT		100	2.6	10	
01/07/19	IW-8C	14:53	15:35	H2O2	6%	100	2.4	24	
01/07/19	IW-9A	14:21	15:05	CAT		100	2.3	0	
01/07/19	IW-9A	15:12	16:04	H2O2	6%	100	1.9	8	
01/07/19	IW-12B	14:39	14:58	CAT		50	2.6	10	
01/07/19	IW-12B	15:03	15:21	H2O2	6%	50	2.8	10	
01/07/19	IW-19B	14:42	15:01	CAT		50	2.6	24	
01/07/19	IW-19B	15:05	15:28	H2O2	6%	50	2.2	24	
01/07/19	IW-2B	15:28	15:53	CAT		50	2.0	14	
01/07/19	IW-2B	15:57	16:12	H2O2	6%	50	3.3	14	
01/07/19	IW-26B	15:34	15:57	CAT		50	2.2	8	
01/07/19	IW-26B	16:03	16:24	H2O2	6%	50	2.4	12	
01/07/19	IW-3D	15:46	16:04	CAT		50	2.8	30	
01/07/19	IW-3D	16:12	16:38	H2O2	6%	50	1.9	30	
01/07/19	IW-39B	15:46	16:04	CAT		50	2.8	14	
01/07/19	IW-39B	16:12	16:38	H2O2	6%	50	1.9	16	
01/08/19	IW-5C	7:47	8:29	CAT		100	2.4	18	
01/08/19	IW-5C	8:34	9:21	H2O2	6%	100	2.1	18	
01/08/19	IW-2A	7:47	8:29	CAT		100	2.4	0	
01/08/19	IW-2A	8:34	9:20	H2O2	6%	100	2.2	0	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/08/19	IW-58A	7:47	8:26	CAT		100	2.6	4	
01/08/19	IW-58A	8:31	9:17	H2O2	6%	100	2.2	0	
01/08/19	IW-9D	7:47	8:22	CAT		50	1.4	40	
01/08/19	IW-9D	8:29	9:01	H2O2	6%	50	1.6	56	
01/08/19	IW-27A	7:47	8:30	H2O2	6%	100	2.3	10	
01/08/19	IW-27A	8:36	9:23	CAT		100	2.1	10	
01/08/19	IW-1C	7:47	8:50	H2O2	6%	100	1.6	12	
01/08/19	IW-1C	8:36	9:23	CAT		100	2.1	16	
01/08/19	IW-7D	9:10	9:38	CAT		50	1.8	36	
01/08/19	IW-7D	9:43	10:08	H2O2	6%	50	2.0	46	
01/08/19	IW-53A	9:27	10:16	CAT		100	2.0	10	
01/08/19	IW-53A	10:24	11:15	H2O2	6%	100	2.0	20	
01/08/19	IW-2A	9:28	10:12	CAT		100	2.3	6	
01/08/19	IW-2A	10:20	11:07	H2O2	6%	100	2.1	12	
01/08/19	IW-11B	9:40	10:19	CAT		100	2.6	12	
01/08/19	IW-11B	10:25	11:16	H2O2	6%	100	2.0	22	
01/08/19	IW-27A	9:40	10:19	CAT		100	2.6	10	
01/08/19	IW-27A	10:25	11:16	H2O2	6%	100	2.0	16	
01/08/19	IW-3C	9:32	10:09	H2O2	6%	100	2.7	16	
01/08/19	IW-3C	10:15	10:56	CAT		100	2.4	14	
01/08/19	IW-15C	10:24	11:06	CAT		50	1.2	54	
01/08/19	IW-15C	11:10	11:56	H2O2	6%	50	1.1	88	
01/08/19	IW-3B	1:02	11:47	CAT		100	0.2	10	
01/08/19	IW-3B	11:54	12:41	H2O2	6%	100	2.1	14	surfaced 6 feet northeast
01/08/19	IW-6A	11:14	12:00	CAT		100	2.2	4	
01/08/19	IW-6A	12:04	12:46	H2O2	6%	100	2.4	10	
01/08/19	IW-17A	11:21	11:59	CAT		100	2.6	2	
01/08/19	IW-17A	12:04	12:46	H2O2	6%	100	2.4	4	
01/08/19	IW-26A	11:31	12:05	CAT		100	2.9	10	
01/08/19	IW-26A	12:15	12:58	H2O2	6%	100	2.3	6	
01/08/19	IW-14A	11:31	12:58	CAT		100	1.1	12	
01/08/19	IW-14A	12:45	13:44	H2O2	6%	100	1.7	20	
01/08/19	IW-21C	12:01	12:54	H2O2	6%	50	0.9	62	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/08/19	IW-12D	12:52	13:47	H2O2	6%	50	0.9	100	100 psi after 50 gallons
01/08/19	IW-14D	13:02	13:36	CAT		50	1.5	40	
01/08/19	IW-14D	13:40	14:08	H2O2	6%	50	1.8	46	
01/08/19	IW-2C	13:06	13:45	CAT		100	2.6	16	
01/08/19	IW-2C	13:52	14:33	H2O2	6%	100	2.4	16	
01/08/19	IW-26C	13:06	13:27	H2O2	6%	25	1.2	100	100 psi after 25 gallons
01/08/19	IW-26A	13:06	13:45	CAT		100	2.6	8	
01/08/19	IW-26A	13:52	14:33	H2O2	6%	100	2.4	8	
01/08/19	IW-20C	13:32	14:07	H2O2	6%	50	1.4	46	
01/08/19	IW-14A	13:50	14:16	CAT		50	1.9	20	
01/08/19	IW-14A	14:21	14:52	H2O2	6%	50	1.6	20	
01/08/19	IW-31B	13:57	14:21	CAT		50	2.1	16	
01/08/19	IW-31B	14:28	14:49	H2O2	6%	50	2.4	16	
01/08/19	IW-23C	14:13	14:48	H2O2	6%	50	1.4	14	
01/08/19	IW-23C	14:52	15:20	CAT		50	1.8	16	
01/08/19	IW-13D	14:16	15:02	CAT		100	2.2	34	
01/08/19	IW-13D	15:06	15:57	H2O2	6%	100	2.0	30	
01/08/19	IW-7A	14:46	15:36	CAT		100	2.0	4	
01/08/19	IW-7A	15:44	16:30	H2O2	6%	100	2.2	4	
01/08/19	IW-1D	14:46	15:38	CAT		100	1.9	22	
01/08/19	IW-1D	15:44	16:26	H2O2	6%	100	2.4	30	
01/08/19	IW-30A	15:09	15:59	CAT		100	2.0	14	
01/08/19	IW-30A	16:05	16:50	H2O2	6%	100	2.2	14	
01/08/19	IW-38B	15:09	15:54	CAT		100	2.2	26	
01/08/19	IW-42B	15:28	15:42	CAT		30	2.1	30	surfaced 12 feet northeast
01/08/19	IW-41B	15:48	16:24	CAT		50	1.4	60	
01/08/19	IW-37B	16:10	16:50	CAT		50	1.3	32	
01/08/19	IW-16D	16:06	16:32	H2O2	6%	25	1.0	100	100 psi after 25 gallons
01/09/19	IW-4B	7:52	8:31	CAT		100	2.6	12	
01/09/19	IW-4B	8:37	9:19	H2O2	6%	100	2.4	14	
01/09/19	IW-6C	7:52	8:31	CAT		100	2.6	24	
01/09/19	IW-6C	8:37	9:15	H2O2	6%	100	2.6	22	
01/09/19	IW-29A	7:52	8:47	H2O2	6%	100	1.8	8	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/09/19	IW-29A	8:54	9:50	CAT		100	1.8	12	
01/09/19	IW-37B	7:52	8:20	CAT		50	1.8	46	
01/09/19	IW-23C	7:52	8:20	H2O2	6%	50	1.8	20	
01/09/19	IW-23C	8:24	8:54	CAT		50	1.7	34	
01/09/19	IW-41B	7:52	8:17	CAT		50	2.0	58	
01/09/19	IW-34B	8:26	9:12	CAT		100	2.2	40	
01/09/19	IW-36B	8:30	9:29	CAT		100	1.7	52	
01/09/19	IW-16A	9:02	9:46	CAT		100	2.3	14	
01/09/19	IW-16A	9:51	10:25	H2O2	6%	100	2.9	12	
01/09/19	IW-44B	9:18	10:08	CAT		100	2.0	30	
01/09/19	IW-6C	9:25	9:49	CAT		50	2.1	16	
01/09/19	IW-6C	9:55	10:19	H2O2	6%	50	2.1	18	
01/09/19	IW-4B	9:28	9:50	CAT		50	2.3	16	
01/09/19	IW-4B	9:55	10:19	H2O2	6%	50	2.1	18	
01/09/19	IW-35B	9:39	10:00	CAT		50	2.4	20	surfaced 3 feet south
01/09/19	IW-9C	9:58	10:56	CAT		100	1.7	22	
01/09/19	IW-9C	11:05	11:57	H2O2	6%	100	1.9	26	
01/09/19	IW-40B	10:10	11:20	CAT		100	1.4	80	surfaced 5 feet south
01/09/19	IW-45B	10:16	11:00	CAT		100	2.3	46	
01/09/19	IW-6B	10:35	11:24	CAT		100	2.0	8	
01/09/19	IW-6B	11:31	12:24	H2O2	6%	100	1.9	10	
01/09/19	IW-4C	10:35	11:24	CAT		100	2.0	20	
01/09/19	IW-4C	11:31	12:12	H2O2	6%	100	2.4	16	
01/09/19	IW-9A	10:45	11:27	H2O2	6%	100	2.4	14	
01/09/19	IW-9A	11:33	12:11	CAT		100	2.6	12	
01/09/19	IW-43B	11:09	11:27	CAT		25	1.4	24	surfaced 20 feet northwest
01/09/19	IW-18C	11:37	12:13	CAT		50	1.4	46	
01/09/19	IW-18C	12:17	12:50	H2O2	6%	50	1.5	52	
01/09/19	IW-33A	11:39	12:39	CAT		100	1.7	2	
01/09/19	IW-33A	12:45	13:23	H2O2	6%	100	2.6	8	
01/09/19	IW-7C	12:06	12:49	CAT		100	2.3	14	
01/09/19	IW-7C	12:55	13:58	H2O2	6%	100	1.6	28	
01/09/19	IW-4C	12:16	12:39	CAT		50	2.2	20	

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Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/09/19	IW-4C	12:45	13:07	H2O2	6%	50	2.3	24	
01/09/19	IW-23A	12:22	13:07	CAT		100	2.2	14	
01/09/19	IW-23A	13:13	14:00	H2O2	6%	100	2.1	14	
01/09/19	IW-6B	12:28	12:45	CAT		50	2.9	20	
01/09/19	IW-6B	12:52	13:09	H2O2	6%	50	2.9	16	
01/09/19	IW-11C	13:00	13:42	CAT		50	1.2	56	
01/09/19	IW-11C	13:47	14:31	H2O2	6%	50	1.1	74	
01/09/19	IW-8C	13:19	14:03	CAT		100	2.3	14	
01/09/19	IW-8C	14:07	14:46	H2O2	6%	100	2.6	16	
01/09/19	IW-13A	13:19	14:03	CAT		100	2.3	2	
01/09/19	IW-13A	14:07	14:48	H2O2	6%	100	2.4	16	
01/09/19	IW-33A	13:30	14:18	CAT		100	2.1	12	
01/09/19	IW-33A	14:23	15:06	H2O2	6%	100	2.3	16	
01/09/19	IW-23B	14:06	14:34	H2O2	6%	40	1.4	28	surfaced 8 feet southeast at ERH well
01/09/19	IW-20C	14:14	14:44	H2O2	6%	50	1.7	26	
01/09/19	IW-2D	14:38	15:44	H2O2	6%	100	1.5	40	
01/09/19	IW-2D	15:48	16:37	CAT		100	2.0	40	
01/09/19	IW-15D	14:48	15:40	CAT		100	1.9	46	
01/09/19	IW-15D	15:48	16:42	H2O2	6%	100	1.9	62	
01/09/19	IW-8C	14:52	15:15	CAT		50	2.2	16	
01/09/19	IW-8C	15:19	15:40	H2O2	6%	50	2.4	16	
01/09/19	IW-13A	14:52	15:39	CAT		100	2.1	20	
01/09/19	IW-13A	15:40	16:18	H2O2	6%	100	2.6	20	
01/09/19	IW-21C	14:55	15:29	H2O2	6%	50	1.5	32	
01/09/19	IW-25B	15:14	16:00	CAT		100	2.2	16	
01/09/19	IW-25B	16:05	16:50	H2O2	6%	100	2.2	16	
01/09/19	IW-15C	15:35	16:03	CAT		50	1.8	22	
01/09/19	IW-15C	16:11	16:47	H2O2	6%	50	1.4	40	
01/09/19	IW-5C	15:51	16:17	CAT		50	1.9	24	
01/09/19	IW-5C	16:21	16:45	H2O2	6%	50	2.1	24	
01/10/19	IW-7A	7:41	8:06	CAT		50	2.0	0	
01/10/19	IW-7A	8:10	8:35	H2O2	6%	50	2.0	8	
01/10/19	IW-2C	7:41	8:06	CAT		50	2.0	16	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/10/19	IW-2C	8:10	8:31	H2O2	6%	50	2.4	14	
01/10/19	IW-1D	7:41	8:10	CAT		50	1.7	20	
01/10/19	IW-1D	8:14	8:46	H2O2	6%	50	1.6	22	
01/10/19	IW-25B	7:41	8:03	CAT		50	2.3	12	
01/10/19	IW-25B	8:09	8:31	H2O2	6%	50	2.3	24	
01/10/19	IW-16D	7:41	8:05	CAT		25	1.0	100	
01/10/19	IW-44B	7:41	8:17	H2O2	6%	50	1.4	40	
01/10/19	IW-24C	8:13	8:31	CAT		25	1.4	100	
01/10/19	IW-38B	8:22	8:55	H2O2	6%	50	1.5	16	surfaced 10 feet northwest
01/10/19	IW-25C	8:35	8:51	CAT		50	3.1	30	
01/10/19	IW-2C	8:42	9:24	CAT		100	2.4	16	
01/10/19	IW-2C	9:30	10:10	H2O2	6%	100	2.5	16	
01/10/19	IW-3C	8:42	9:24	CAT		100	2.4	10	
01/10/19	IW-3C	9:30	10:10	H2O2	6%	100	2.5	10	
01/10/19	IW-13A	8:47	9:27	CAT		100	2.5	4	
01/10/19	IW-13A	9:32	10:19	H2O2	6%	100	2.1	8	
01/10/19	IW-1D	8:56	9:23	CAT		50	1.9	24	
01/10/19	IW-21C	9:02	9:49	H2O2	6%	50	1.1	62	
01/10/19	IW-13D	9:08	9:40	CAT		50	1.6	34	
01/10/19	IW-13D	9:44	10:06	H2O2	6%	50	2.3	34	
01/10/19	IW-52B	9:30	10:22	CAT		100	1.9	10	
01/10/19	IW-52B	10:27	11:17	H2O2	6%	100	2.0	14	
01/10/19	IW-20C	9:58	10:31	H2O2	6%	50	1.5	28	
01/10/19	IW-20C	10:40	11:06	CAT		50	1.9	40	
01/10/19	IW-11C	10:18	10:59	CAT		50	1.2	82	
01/10/19	IW-3C	10:26	10:46	CAT		50	2.5	20	
01/10/19	IW-3C	10:50	11:13	H2O2	6%	50	2.2	22	
01/10/19	IW-11B	10:27	11:05	CAT		100	2.6	20	
01/10/19	IW-11B	11:10	11:51	H2O2	6%	100	2.4	26	
01/10/19	IW-1A	10:27	11:05	CAT		100	2.6	0	
01/10/19	IW-1A	11:10	11:51	H2O2	6%	100	2.4	8	
01/10/19	IW-23C	11:09	11:38	CAT		50	1.7	16	
01/10/19	IW-23C	11:44	12:08	H2O2	6%	50	2.1	20	

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Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/10/19	IW-15C	11:16	12:01	H2O2	6%	50	1.1	90	
01/10/19	IW-7C	11:23	11:48	CAT		50	2.0	18	
01/10/19	IW-7C	11:52	12:18	H2O2	6%	50	1.9	28	
01/10/19	IW-1C	11:30	12:24	CAT		100	1.9	14	
01/10/19	IW-1C	12:29	13:25	H2O2	6%	100	1.8	20	
01/10/19	IW-2A	12:04	12:44	CAT		100	2.5	0	
01/10/19	IW-2A	12:50	13:38	H2O2	6%	100	2.1	2	
01/10/19	IW-10B	12:04	12:44	CAT		100	2.5	30	
01/10/19	IW-10B	12:50	13:38	H2O2	6%	100	2.1	36	
01/10/19	IW-26C	12:10	12:55	CAT		50	1.1	88	
01/10/19	IW-37B	12:19	12:40	H2O2	6%	40	1.9	36	surfaced 2 feet east
01/10/19	IW-8C	12:26	13:21	CAT		100	1.8	12	
01/10/19	IW-8C	13:25	14:10	H2O2	6%	100	2.2	18	
01/10/19	IW-35B	12:48	12:56	H2O2	6%	10	1.3		surfaced 3 feet south
01/10/19	IW-41B	13:03	13:41	H2O2	6%	50	1.3	44	
01/10/19	IW-53A	13:08	13:57	CAT		100	2.0	12	
01/10/19	IW-53A	14:04	14:54	H2O2	6%	100	2.0	18	
01/10/19	IW-12D	13:37	14:11	CAT		25	0.7	96	
01/10/19	IW-5A	13:50	14:29	CAT		100	2.6	2	
01/10/19	IW-5A	14:38	15:20	H2O2	6%	100	2.4	8	
01/10/19	IW-5C	13:50	14:30	CAT		100	2.5	22	
01/10/19	IW-5C	14:38	15:20	H2O2	6%	100	2.4	22	
01/10/19	IW-34B	13:54	14:05	H2O2	6%	20	1.8	14	surfaced 2 feet west
01/10/19	IW-15D	14:13	14:57	H2O2	6%	100	2.3	58	
01/10/19	IW-15D	15:11	16:11	CAT		100	1.7	86	
01/10/19	IW-9C	14:22	14:46	CAT		50	2.1	24	
01/10/19	IW-9C	14:51	15:15	H2O2	6%	50	2.1	28	
01/10/19	IW-1C	14:22	14:50	CAT		50	1.8	24	
01/10/19	IW-1C	14:55	15:32	H2O2	6%	50	1.4	24	
01/10/19	IW-25C	15:05	15:37	H2O2	6%	50	1.6	26	
01/10/19	IW-24B	15:23	16:08	CAT		100	2.2	22	
01/10/19	IW-24B	16:15	16:36	H2O2	6%	50	2.4	24	
01/10/19	IW-2A	15:34	15:56	CAT		50	2.3	4	

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Daily Injection Summary
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Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/10/19	IW-2A	16:00	16:24	H2O2	6%	50	2.1	12	
01/10/19	IW-10B	15:34	16:11	CAT		50	1.4	34	
01/10/19	IW-10B	16:24	16:43	H2O2	6%	50	2.6	36	
01/10/19	IW-3A	15:45	16:04	CAT		50	2.6	10	
01/10/19	IW-3A	16:09	16:27	H2O2	6%	50	2.8	10	
01/10/19	IW-58A	15:45	16:02	CAT		50	2.9	8	
01/10/19	IW-58A	16:06	16:24	H2O2	6%	50	2.8	8	
01/10/19	IW-45A	16:18	16:32	CAT		25	1.8	12	
01/16/19	IW-11B	12:13	12:33	CAT		50	2.5	12	
01/16/19	IW-11B	12:38	13:02	H2O2	6%	50	2.1	20	
01/16/19	IW-1A	12:13	12:48	CAT		100	2.9	4	
01/16/19	IW-1A	12:53	13:38	H2O2	6%	100	2.2	8	
01/16/19	IW-33A	12:13	13:00	CAT		100	2.1	10	
01/16/19	IW-33A	13:05	13:57	H2O2	6%	100	1.9	16	
01/16/19	IW-51B	12:13	12:55	CAT		100	2.4	12	
01/16/19	IW-51B	13:00	13:53	H2O2	6%	100	1.9	16	
01/16/19	IW-58A	12:13	12:55	H2O2	6%	100	2.4	4	
01/16/19	IW-58A	13:00	13:52	CAT		100	1.9	10	
01/16/19	IW-21C	12:13	12:58	H2O2	6%	50	1.1	52	
01/16/19	IW-21C	13:03	13:55	CAT		50	1.0	90	
01/16/19	IW-53B	13:11	14:17	CAT		100	1.5	14	
01/16/19	IW-53B	14:07	15:10	H2O2	6%	100	1.6	26	
01/16/19	IW-5A	13:48	14:28	CAT		100	2.5	2	
01/16/19	IW-5A	14:33	15:18	H2O2	6%	100	2.2	8	
01/16/19	IW-23A	14:05	14:27	CAT		50	2.3	18	
01/16/19	IW-23A	14:32	14:56	H2O2	6%	50	2.1	18	
01/16/19	IW-47A	14:00	15:15	H2O2	6%	100	1.3	30	
01/16/19	IW-47A	15:30	15:57	CAT		100	3.7	32	surfaced 15 feet northwest
01/16/19	IW-11C	14:00	15:00	CAT		50	0.8	54	
01/16/19	IW-11C	15:05	15:35	H2O2	6%	25	0.8	80	
01/16/19	IW-18B	14:00	15:00	H2O2	6%	100	1.7	22	
01/16/19	IW-18B	15:05	15:52	CAT		100	2.1	16	
01/16/19	IW-24A	15:08	15:42	CAT		100	2.9	4	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/16/19	IW-24A	15:47	16:24	H2O2	6%	100	2.7	4	
01/16/19	IW-52B	15:28	15:47	CAT		50	2.6	12	
01/16/19	IW-52B	15:52	16:42	H2O2	6%	50	1.0	12	
01/16/19	IW-11A	15:28	16:13	CAT		100	2.2	12	
01/16/19	IW-11A	16:18	16:55	H2O2	6%	75	2.0	14	
01/16/19	IW-20C	15:40	16:26	H2O2	6%	50	1.1	22	
01/16/19	IW-20C	16:30	17:03	CAT		50	1.5	40	
01/16/19	IW-25A	16:00	16:46	CAT		100	2.2	12	
01/16/19	IW-44A	16:00	16:37	CAT		100	2.7	8	
01/17/19	IW-4A	7:40	8:20	CAT		100	2.5	2	
01/17/19	IW-4A	8:25	9:03	H2O2	6%	100	2.6	2	
01/17/19	IW-11A	7:40	8:20	CAT		100	2.5	12	
01/17/19	IW-11A	8:25	9:13	H2O2	6%	125	2.6	18	
01/17/19	IW-25A	7:40	8:30	H2O2	6%	100	2.0	18	
01/17/19	IW-44A	7:40	8:23	H2O2	6%	100	2.3	12	surfaced 6 feet east
01/17/19	IW-16A	7:40	8:12	CAT		100	3.1	10	
01/17/19	IW-16A	8:15	9:00	H2O2	6%	100	2.2	20	
01/17/19	IW-15C	7:40	8:25	CAT		50	1.1	34	
01/17/19	IW-15C	8:30	9:21	H2O2	6%	50	1.0	100	100 psi after 50 gallons
01/17/19	IW-29A	8:37	9:20	CAT		100	2.3	10	
01/17/19	IW-29A	9:25	10:07	H2O2	6%	100	2.4	16	
01/17/19	IW-24B	8:45	9:11	CAT		50	1.9	12	
01/17/19	IW-24B	9:15	9:43	H2O2	6%	50	1.8	22	
01/17/19	IW-18C	9:07	9:40	CAT		50	1.5	46	
01/17/19	IW-18C	9:45	10:11	H2O2	6%	50	1.9	50	surfaced 18 feet northwest
01/17/19	IW-5A	9:12	9:52	CAT		100	2.5	12	
01/17/19	IW-5A	9:56	10:38	H2O2	6%	100	2.4	16	
01/17/19	IW-12A	9:20	9:52	CAT		100	3.1	6	
01/17/19	IW-12A	9:56	10:38	H2O2	6%	100	2.4	16	
01/17/19	IW-11C	9:23	10:28	H2O2	6%	45	0.7	100	100 psi after 45 gallons
01/17/19	IW-19A	9:52	10:40	CAT		100	2.1	4	
01/17/19	IW-19A	10:45	11:13	H2O2	6%	100	3.6	10	
01/17/19	IW-30A	10:15	10:55	CAT		100	2.5	8	

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Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/17/19	IW-30A	11:00	11:50	H2O2	6%	100	2.0	22	
01/17/19	IW-23C	10:18	10:40	H2O2	6%	50	2.3	16	
01/17/19	IW-23C	10:48	11:09	CAT		50	2.4	26	
01/17/19	IW-26C	10:33	11:00	H2O2	6%	15	0.6	100	100 psi after 15 gallons
01/17/19	IW-1A	10:55	11:32	CAT		100	2.7	12	
01/17/19	IW-1A	11:37	12:17	H2O2	6%	100	2.5	14	
01/17/19	IW-21A	10:55	11:32	CAT		100	2.7	0	
01/17/19	IW-21A	11:37	12:19	H2O2	6%	100	2.4	8	
01/17/19	IW-36B	11:05	11:57	H2O2	6%	50	1.0	64	
01/17/19	IW-9A	11:15	12:05	H2O2	6%	100	2.0	6	
01/17/19	IW-9A	12:10	12:54	CAT		100	2.3	14	
01/17/19	IW-18A	11:15	12:05	H2O2	6%	100	2.0	2	
01/17/19	IW-18A	12:10	12:54	CAT		100	2.3	10	
01/17/19	IW-30A	12:00	12:40	CAT		100	2.5	22	
01/17/19	IW-30A	12:45	13:30	H2O2	6%	100	2.2	22	
01/17/19	IW-38B	12:08	12:36	H2O2	6%	45	1.6	24	surfaced 12 feet northwest
01/17/19	IW-6A	12:28	13:08	H2O2	6%	100	2.5	0	
01/17/19	IW-6A	13:12	14:00	CAT		100	2.1	10	
01/17/19	IW-21A	12:28	13:08	H2O2	6%	100	2.5	10	
01/17/19	IW-21A	13:12	14:00	CAT		100	2.1	14	
01/17/19	IW-44B	12:43	13:40	H2O2	6%	50	0.9	40	
01/17/19	IW-15D	13:11	13:50	CAT		50	1.3	36	
01/17/19	IW-15D	13:54	14:30	H2O2	6%	50	1.4	64	
01/17/19	IW-10A	13:05	13:47	CAT		100	2.4	0	
01/17/19	IW-10A	13:52	14:40	H2O2	6%	100	2.1	12	
01/17/19	IW-50B	13:40	14:30	H2O2	6%	100	2.0	14	
01/17/19	IW-50B	14:30	14:46	CAT		50	3.1	14	surfaced 15 feet west
01/17/19	IW-45B	13:54	14:24	H2O2	6%	50	1.7	20	
01/17/19	IW-5A	14:09	14:56	CAT		100	2.1	12	
01/17/19	IW-5A	15:00	15:43	H2O2	6%	100	2.3	20	
01/17/19	IW-20A	14:10	14:56	CAT		100	2.2	0	
01/17/19	IW-20A	15:00	15:43	H2O2	6%	100	2.3	8	
01/17/19	IW-41B	14:38	16:00	H2O2	6%	50	0.6	64	

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Daily Injection Summary
ISCO Third Event
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/17/19	IW-48B	14:38	15:41	CAT		100	1.6	12	
01/17/19	IW-48B	15:46	16:05	H2O2	6%	50	2.6	12	surfaced 2 feet east
01/17/19	IW-3A	14:52	15:38	CAT		100	2.2	8	
01/17/19	IW-3A	15:43	16:30	H2O2	6%	100	2.1	12	
01/17/19	IW-48A	14:49	15:24	CAT		100	2.9	26	surfaced 9 feet southwest
01/17/19	IW-43A	15:34	16:14	CAT		75	1.9		surfaced 12 feet north
01/17/19	IW-11A	15:55	16:21	CAT		50	1.9	10	
01/17/19	IW-11A	16:25	16:42	H2O2	6%	50	2.9	12	
01/17/19	IW-20A	15:55	16:21	CAT		50	1.9	12	
01/17/19	IW-20A	16:25	16:42	H2O2	6%	50	2.9	16	
01/17/19	IW-24B	16:00	16:35	H2O2	6%	50	1.4	20	
01/17/19	IW-31A	16:20	16:42	CAT		50	2.3	12	
01/18/19	IW-11A	8:01	8:42	H2O2	6%	100	2.4	20	
01/18/19	IW-11A	8:47	9:26	CAT		100	2.6	20	
01/18/19	IW-28A	8:01	8:42	H2O2	6%	100	2.4	4	
01/18/19	IW-28A	8:47	9:26	CAT		100	2.6	10	
01/18/19	IW-37A	8:01	8:08	CAT		25	3.6	16	surfaced 5 feet southeast
01/18/19	IW-56A	8:01	10:16	CAT		200	1.5	68	
01/18/19	IW-24A	8:01	8:45	CAT		100	2.3	4	
01/18/19	IW-24A	8:50	9:30	H2O2	6%	100	2.5	10	
01/18/19	IW-1D	8:01	8:25	H2O2	6%	50	2.1	20	
01/18/19	IW-35A	8:10	9:15	CAT		100	1.5	14	
01/18/19	IW-26A	8:30	9:23	H2O2	6%	100	1.9	8	
01/18/19	IW-26A	9:27	10:06	CAT		100	2.6	10	
01/18/19	IW-34A	9:18	9:28	CAT		25	2.5		surfaced
01/18/19	IW-12A	9:40	10:19	H2O2	6%	100	2.6	16	
01/18/19	IW-12A	10:23	11:10	CAT		100	2.1	18	
01/18/19	IW-28A	9:40	10:19	H2O2	6%	100	2.6	10	
01/18/19	IW-28A	10:23	11:10	CAT		100	2.1	10	
01/18/19	IW-31A	9:34	10:11	CAT		75	2.0	10	
01/18/19	IW-10A	9:40	10:22	H2O2	6%	100	2.4	4	
01/18/19	IW-10A	10:26	11:15	CAT		100	2.0	8	
01/18/19	IW-25A	10:18	11:15	H2O2	6%	100	1.8	20	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/18/19	IW-25A	11:20	12:02	CAT		100	2.4	20	
01/18/19	IW-55A	10:18	10:30	CAT		25	2.1	20	surfaced 2 feet northwest
01/18/19	IW-38A	10:42	11:10	CAT		40	1.4	40	surfaced 2 feet southwest
01/18/19	IW-54B	10:54	10:58	CAT		5	1.3	100	100 psi after 5 gallons
01/18/19	IW-16A	11:02	12:03	CAT		100	1.6	10	
01/18/19	IW-16A	12:07	12:32	H2O2	6%	50	2.0	10	
01/18/19	IW-15C	11:22	12:08	CAT		50	1.1	52	
01/18/19	IW-18A	11:25	12:11	H2O2	6%	100	2.2	2	
01/18/19	IW-18A	12:16	13:00	CAT		100	2.3	16	
01/18/19	IW-53B	11:25	12:05	H2O2	6%	100	2.5	24	
01/18/19	IW-53B	12:10	12:47	CAT		100	2.7	24	
01/18/19	IW-27A	11:25	12:05	H2O2	6%	100	2.5	6	
01/18/19	IW-27A	12:10	12:47	CAT		100	2.7	10	
01/18/19	IW-29A	12:16	12:55	CAT		100	2.6	8	
01/18/19	IW-29A	13:00	13:40	H2O2	6%	100	2.5	10	
01/18/19	IW-16C	12:21	12:35	CAT		15	1.1	64	surfaced 9 feet east
01/18/19	IW-36A	12:42	12:46	CAT		10	2.5	10	surfaced 2 feet west
01/18/19	IW-53A	12:43	13:19	H2O2	6%	50	1.4	18	
01/18/19	IW-53A	13:24	13:46	CAT		50	2.3	20	
01/18/19	IW-24C	12:56	13:21	CAT		25	1.0	100	100 psi after 25 gallons
01/18/19	IW-4A	13:05	13:44	H2O2	6%	100	2.6	10	
01/18/19	IW-4A	13:50	14:32	CAT		100	2.4	10	
01/18/19	IW-20A	13:05	13:44	H2O2	6%	100	2.6	12	
01/18/19	IW-20A	13:50	14:32	CAT		100	2.4	14	
01/18/19	IW-17A	13:10	13:50	CAT		100	2.5	0	
01/18/19	IW-17A	13:55	14:37	H2O2	6%	100	2.4	14	
01/18/19	IW-47B	13:28	14:26	CAT		100	1.7	24	
01/18/19	IW-47B	14:30	15:00	H2O2	6%	70	2.3	24	surfaced 20 feet northeast along wall
01/18/19	IW-19A	13:45	14:20	H2O2	6%	60	1.7	0	injection stopped; leaking wellhead
01/18/19	IW-9A	13:53	14:23	CAT		50	1.7	15	
01/18/19	IW-9A	14:28	14:52	H2O2	6%	50	2.1	22	
01/18/19	IW-25A	14:20	15:13	CAT		100	1.9	16	
01/18/19	IW-25A	15:18	16:00	H2O2	6%	100	2.4	16	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/18/19	IW-3A	14:35	15:20	CAT		100	2.2	16	
01/18/19	IW-3A	15:25	16:00	H2O2	6%	100	2.9	10	
01/18/19	IW-20A	14:35	15:20	CAT		100	2.2	18	
01/18/19	IW-20A	15:25	16:00	H2O2	6%	100	2.9	18	
01/18/19	IW-46A	14:46	15:42	CAT		100	1.8	38	
01/18/19	IW-9A	14:57	15:17	CAT		50	2.5	24	
01/18/19	IW-45A	15:05	16:29	H2O2	6%	100	1.2	58	
01/18/19	IW-12D	15:25	16:06	CAT		50	1.2	90	
01/18/19	IW-22C	15:48	15:55	CAT		5	0.7	100	100 psi after 5 gallons
01/18/19	IW-52A	16:09	16:45	CAT		100	2.8	8	
01/18/19	IW-21A	16:09	16:28	CAT		50	2.6	4	
01/18/19	IW-21A	16:33	16:50	H2O2	6%	50	2.9	10	
01/18/19	IW-33A	16:07	16:29	CAT		50	2.3	10	
01/18/19	IW-33A	16:34	16:54	H2O2	6%	50	2.5	12	
01/18/19	IW-16D	16:12	16:48	CAT		50	1.4	100	100 psi after 50 gallons
01/18/19	IW-11C	16:19	17:00	H2O2	6%	35	0.9	70	
01/19/19	IW-52A	7:45	7:59	H2O2	6%	50	3.6	4	surfaced 9 feet southeast
01/19/19	IW-21A	7:45	8:27	H2O2	6%	100	2.4	16	
01/19/19	IW-21A	8:35	9:20	CAT		100	2.2	16	
01/19/19	IW-46A	7:45	8:10	H2O2	6%	50	2.0	48	surfaced 15 feet west
01/19/19	IW-30A	7:45	8:10	H2O2	6%	50	2.0	18	
01/19/19	IW-30A	8:15	8:42	CAT		50	1.9	20	
01/19/19	IW-51A	7:45	8:25	CAT		75	1.9	26	surfaced 9 feet southwest
01/19/19	IW-31A	7:45	7:59	H2O2	6%	30	2.1	20	surfaced 9 feet west
01/19/19	IW-35A	8:05	8:36	H2O2	6%	35	1.1	36	surfaced 6 feet northeast
01/19/19	IW-1A	8:16	8:37	CAT		50	2.4	10	
01/19/19	IW-1A	8:43	9:07	H2O2	6%	50	2.1	10	
01/19/19	IW-51B	8:20	8:46	CAT		50	1.9	14	
01/19/19	IW-51B	8:50	9:14	H2O2	6%	50	2.1	20	
01/19/19	IW-40A	8:28	9:15	CAT		100	2.1	8	
01/19/19	IW-56A	8:50	9:49	H2O2	6%	50	0.8	92	
01/19/19	IW-29A	8:50	9:15	H2O2	6%	50	2.0	12	
01/19/19	IW-29A	9:20	9:41	CAT		50	2.4	16	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/19/19	IW-6A	9:15	9:41	CAT		50	1.9	2	
01/19/19	IW-6A	9:46	10:07	H2O2	6%	50	2.4	10	
01/19/19	IW-50A	9:18	9:57	CAT		80	2.1	20	surfaced 3 feet southwest
01/19/19	IW-17A	9:19	9:43	H2O2	6%	50	2.1	4	
01/19/19	IW-17A	9:48	10:15	CAT		50	1.9	6	
01/19/19	IW-28A	9:30	10:00	CAT		100	3.3	6	
01/19/19	IW-28A	10:05	10:50	H2O2	6%	100	2.2	10	
01/19/19	IW-24B	9:51	10:15	CAT		50	2.1	28	
01/19/19	IW-24B	10:20	10:46	H2O2	6%	50	1.9	32	
01/19/19	IW-12D	9:55	10:24	H2O2	6%	25	0.9	100	100 psi after 25 gallons
01/19/19	IW-42A	10:03	10:50	CAT		100	2.1	12	
01/19/19	IW-12A	10:18	10:42	H2O2	6%	50	2.1	18	
01/19/19	IW-12A	10:47	11:07	CAT		50	2.5	18	
01/19/19	IW-23C	10:32	11:02	H2O2	6%	50	1.7	20	
01/19/19	IW-23C	11:07	11:37	CAT		50	1.7	46	
01/19/19	IW-10A	10:32	11:20	CAT		100	2.1	0	
01/19/19	IW-10A	11:25	12:08	H2O2	6%	100	2.3	14	
01/19/19	IW-57A	10:57	11:44	CAT		100	2.1	32	
01/19/19	IW-18B	10:57	11:20	H2O2	6%	50	2.2	16	
01/19/19	IW-18B	11:25	11:52	CAT		50	1.9	22	
01/19/19	IW-28A	10:59	11:20	H2O2	6%	50	2.4	16	
01/19/19	IW-28A	11:25	11:46	CAT		50	2.4	18	
01/19/19	IW-53B	11:15	11:38	H2O2	6%	50	2.2	20	
01/19/19	IW-53B	11:43	12:01	CAT		50	2.8	20	
01/19/19	IW-56A	11:49	12:53	H2O2	6%	50	0.8	82	
01/19/19	IW-41A	11:47	12:29	CAT		100	2.4	10	
01/19/19	IW-27A	11:55	12:26	H2O2	6%	50	1.6	16	
01/19/19	IW-27A	12:30	13:05	CAT		50	1.4	18	
01/19/19	IW-25A	12:00	12:26	H2O2	6%	50	1.9	20	
01/19/19	IW-25A	12:31	13:05	CAT		50	1.5	22	
01/19/19	IW-4A	12:09	12:30	CAT		50	2.4	4	
01/19/19	IW-4A	12:35	13:00	H2O2	6%	50	2.0	4	
01/19/19	IW-24A	12:16	12:58	H2O2	6%	100	2.4	8	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/19/19	IW-24A	13:03	13:42	CAT		100	2.6	12	
01/19/19	IW-45A	12:31	13:24	CAT		100	1.9	34	
01/19/19	IW-12D	12:56	13:46	H2O2	6%	25	0.5	100	100 psi after 25 gallons
01/19/19	IW-18A	13:15	13:56	CAT		100	2.4	8	
01/19/19	IW-18A	14:02	14:51	H2O2	6%	100	2.0	14	
01/19/19	IW-26A	13:15	13:35	CAT		50	2.5	12	
01/19/19	IW-26A	13:40	14:00	H2O2	6%	50	2.5	12	
01/19/19	IW-19A	13:10	13:56	H2O2	6%	100	2.2	8	
01/19/19	IW-19A	14:02	14:47	CAT		100	2.2	10	
01/19/19	IW-40A	13:47	14:05	H2O2	6%	35	1.9	10	surfaced 2 feet south at ERH well
01/19/19	IW-24A	13:50	14:16	CAT		50	1.9	12	
01/19/19	IW-24A	14:21	14:46	H2O2	6%	50	2.0	16	
01/19/19	IW-56A	13:55	14:39	H2O2	6%	50	1.1	56	
01/19/19	IW-42A	14:10	15:00	H2O2	6%	50	1.0	20	
01/19/19	IW-10A	14:17	14:35	CAT		50	2.8	12	
01/19/19	IW-10A	14:40	15:05	H2O2	6%	50	2.0	12	
01/19/19	IW-24C	14:47	15:07	H2O2	6%	15	0.8	94	
01/19/19	IW-23B	14:58	15:30	CAT		50	1.6	26	
01/19/19	IW-23B	15:35	15:52	H2O2	6%	50	2.9	30	
01/19/19	IW-18A	14:57	15:22	H2O2	6%	50	2.0	14	
01/19/19	IW-18A	15:27	15:50	CAT		50	2.2	16	
01/19/19	IW-19A	14:57	15:32	CAT		100	2.9	8	
01/19/19	IW-19A	15:37	16:09	H2O2	6%	100	3.1	10	
01/19/19	IW-57A	15:05	15:13	H2O2	6%	25	3.1	28	surfaced 3 feet northwest
01/19/19	IW-12D	15:12	15:27	H2O2	6%	15	1.0	54	
01/19/19	IW-41A	15:15	15:51	H2O2	6%	65	1.8	10	surfaced 15 feet northeast
01/19/19	IW-16D	15:35	16:04	H2O2	6%	35	1.2	78	
01/20/19	IW-19A	7:40	8:03	CAT		50	2.2	12	
01/20/19	IW-19A	8:08	8:28	H2O2	6%	50	2.5	12	
01/20/19	IW-24B	7:40	8:10	CAT		50	1.7	20	
01/20/19	IW-24B	8:15	8:50	H2O2	6%	50	1.4	26	
01/20/19	IW-16D	7:40	7:50	H2O2	6%	15	1.5	86	
01/20/19	IW-12D	7:40	8:40	CAT		50	0.8	92	

Table 6
Daily Injection Summary
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
01/20/19	IW-56A	7:40	8:22	H2O2	6%	50	1.2	58	
01/20/19	IW-45A	7:40	8:36	CAT		100	1.8	24	
01/20/19	IW-45A	8:46	9:45	H2O2	6%	100	1.7	24	
01/20/19	IW-25C	8:00	8:27	H2O2	6%	50	1.9	24	
01/20/19	IW-25C	8:32	8:53	CAT		50	2.4	24	
01/20/19	IW-5D	8:34	9:10	H2O2	6%	50	1.4	30	
01/20/19	IW-25C	9:06	9:51	CAT		100	2.2	30	
01/20/19	IW-25C	9:56	10:41	H2O2	6%	100	2.2	10	
01/20/19	IW-12A	9:20	10:00	CAT		100	2.5	30	
01/20/19	IW-47B	10:00	10:18	CAT		50	2.8	36	
01/20/19	IW-47B	10:22	10:42	H2O2	6%	50	2.5	48	
01/20/19	IW-48B	10:45	10:55	CAT		25	2.5	20	surfaced 1 foot south
01/20/19	IW-12A	10:56	11:06	H2O2	6%	25	2.5	10	

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2, value in concentration column represents hydrogen peroxide concentration

Table 7
Injection Well Reagent Totals
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	6% H2O2	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1A	350	350	0	700	2.5	14	
IW-2A	350	350	0	700	2.2	12	
IW-3A	350	350	0	700	2.5	16	
IW-4A	350	350	0	700	2.4	10	
IW-5A	400	400	0	800	2.4	20	
IW-6A	350	350	0	700	2.3	10	
IW-7A	350	250	100	700	2.2	10	
IW-8A	400	0	350	750	2.5	14	
IW-9A	400	350	0	750	2.2	24	
IW-10A	350	350	0	700	2.3	14	
IW-11A	350	350	0	700	2.4	20	
IW-12A	450	375	0	825	2.5	30	
IW-13A	400	400	0	800	2.4	20	
IW-14A	350	350	0	700	2.0	20	
IW-15A	350	50	300	700	2.5	28	
IW-16A	360	250	100	710	2.4	20	x
IW-17A	350	250	100	700	2.2	14	
IW-18A	350	350	0	700	2.2	16	
IW-19A	350	410	0	760	2.5	12	
IW-20A	350	350	0	700	2.4	18	
IW-21A	350	350	0	700	2.5	16	
IW-22A	350	50	300	700	2.5	16	
IW-23A	350	250	100	700	2.1	22	
IW-24A	350	350	0	700	2.4	16	
IW-25A	350	350	0	700	2.0	22	
IW-26A	350	350	0	700	2.5	12	
IW-27A	350	350	0	700	2.2	18	
IW-28A	350	350	0	700	2.5	18	
IW-29A	350	350	0	700	2.2	16	
IW-30A	350	350	0	700	2.2	22	
IW-31A	125	30	0	155	2.1	20	x
IW-32A	30	0	0	30	2.3	12	x
IW-33A	350	350	0	700	2.2	16	
IW-34A	25	0	0	25	2.5	0	x
IW-35A	100	35	0	135	1.3	36	x
IW-36A	10	0	0	10	2.5	10	x
IW-37A	50	0	0	50	3.0	16	x
IW-38A	40	0	0	40	1.4	40	x
IW-39A	60	0	0	60	2.5	12	x
IW-40A	100	35	0	135	2.0	10	x
IW-41A	100	65	0	165	2.1	10	x
IW-42A	100	50	0	150	1.6	20	
IW-43A	75	0	0	75	1.9	0	x
IW-44A	200	100	0	300	2.3	12	x
IW-45A	225	200	0	425	1.7	58	
IW-46A	100	50	0	150	1.9	48	x
IW-47A	100	100	0	200	2.5	32	x

Table 7
Injection Well Reagent Totals
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	6% H2O2	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-48A	100	0	0	100	2.9	26	x
IW-50A	80	0	0	80	2.1	20	x
IW-51A	75	0	0	75	1.9	26	x
IW-52A	100	50	0	150	3.2	8	x
IW-53A	350	250	100	700	2.0	28	
IW-54A	100	0	50	150	2.3	8	x
IW-55A	25	0	0	25	2.1	20	x
IW-56A	200	200	0	400	1.1	92	
IW-57A	100	25	0	125	2.6	32	x
IW-58A	350	250	100	700	2.5	10	
IW-1B	100	0	100	200	2.6	16	x
IW-2B	350	150	200	700	2.6	16	
IW-3B	300	200	100	600	2.1	14	x
IW-4B	300	250	100	650	2.3	20	
IW-5B	350	0	350	700	2.1	20	
IW-6B	350	250	100	700	2.5	20	
IW-7B	350	0	350	700	2.1	18	
IW-8B	200	0	200	400	2.4	30	x
IW-9B	250	0	300	550	2.2	20	x
IW-10B	350	250	100	700	2.3	44	
IW-11B	350	250	100	700	2.4	26	
IW-12B	350	150	200	700	2.5	20	
IW-13B	350	50	300	700	2.4	16	
IW-14B	400	0	350	750	2.2	20	
IW-15B	350	150	200	700	2.0	28	
IW-16B	370	150	200	720	2.1	14	
IW-17B	350	150	200	700	2.3	14	
IW-18B	350	150	200	700	2.0	22	
IW-19B	350	150	200	700	2.5	24	
IW-20B	350	150	200	700	2.4	20	
IW-21B	350	0	350	700	2.3	20	
IW-22B	350	150	200	700	2.3	14	x
IW-23B	250	90	100	440	2.1	32	x
IW-24B	350	350	0	700	1.9	38	
IW-25B	350	150	200	700	2.3	24	
IW-26B	350	50	300	700	2.3	20	
IW-27B	400	0	350	750	2.4	20	
IW-28B	200	15	35	250	2.0	26	x
IW-29B	350	50	300	700	2.2	20	
IW-30B	350	0	350	700	1.9	20	
IW-31B	350	150	200	700	2.1	22	
IW-32B	350	0	350	700	2.4	14	
IW-33B	350	0	350	700	2.3	24	
IW-34B	100	20	0	120	2.0	40	x
IW-35B	50	10	0	60	1.8	20	x
IW-36B	100	50	0	150	1.3	64	
IW-37B	100	40	0	140	1.6	46	x

Table 7
Injection Well Reagent Totals
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	6% H2O2	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-38B	100	95	0	195	1.8	26	x
IW-39B	350	150	200	700	2.4	16	
IW-40B	100	0	0	100	1.4	80	x
IW-41B	100	100	0	200	1.3	64	
IW-42B	30	0	0	30	2.1	30	x
IW-43B	25	0	0	25	1.4	24	x
IW-44B	100	100	0	200	1.4	40	
IW-45B	100	50	0	150	2.0	46	
IW-46B	100	65	0	165	1.9	52	x
IW-47B	250	230	0	480	2.1	48	x
IW-48B	225	150	0	375	2.2	22	x
IW-49B	200	0	200	400	2.2	20	x
IW-50B	250	100	200	550	2.1	18	x
IW-51B	350	150	200	700	2.1	20	
IW-52B	350	250	100	700	2.2	16	
IW-53B	350	350	0	700	2.2	26	
IW-54B	5	0	0	5	1.3	100	
IW-55B	50	50	0	100	1.3	86	
IW-56B	50	25	0	75	1.4	100	
IW-1C	350	350	0	700	1.9	24	
IW-2C	350	350	0	700	2.5	16	
IW-3C	350	350	0	700	2.5	22	
IW-4C	350	250	100	700	2.3	24	
IW-5C	350	250	100	700	2.3	24	
IW-6C	350	250	100	700	2.3	28	
IW-7C	350	250	100	700	1.9	28	
IW-8C	350	350	0	700	2.3	24	
IW-9C	350	250	100	700	2.2	30	
IW-10C	100	0	100	200	2.4	48	x
IW-11C	250	255	0	505	1.1	100	
IW-12C	150	25	0	175	2.0	24	x
IW-13C	65	0	0	65	2.2	0	x
IW-14C	125	100	0	225	2.1	42	x
IW-15C	300	270	50	620	1.4	100	
IW-16C	15	15	0	30	1.1	90	x
IW-17C	100	25	0	125	2.0	40	x
IW-18C	200	200	0	400	1.5	52	x
IW-19C	35	0	0	35	1.7	28	x
IW-20C	300	300	0	600	1.7	58	
IW-21C	250	250	0	500	1.3	90	
IW-22C	5	0	0	5	0.7	100	
IW-23C	400	400	0	800	1.8	46	
IW-24C	50	65	0	115	1.1	100	
IW-25C	200	200	0	400	2.2	30	
IW-26C	75	65	0	140	1.0	100	
IW-27C	0	25	0	25	1.1	100	
IW-28C	0	25	0	25	0.9	90	

Table 7
Injection Well Reagent Totals
ISCO Third Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	CAT	6% H2O2	8% H2O2	Total	Average Flow Rate	Maximum Pressure	Surfaced
IW-1D	300	300	0	600	2.0	36	
IW-2D	350	150	200	700	1.6	84	
IW-3D	350	50	300	700	2.1	40	
IW-4D	400	0	350	750	1.8	64	
IW-5D	50	50	0	100	1.7	30	x
IW-6D	350	0	350	700	2.0	58	
IW-7D	350	150	200	700	2.0	68	
IW-8D	350	0	400	750	2.2	26	
IW-9D	350	50	300	700	1.8	84	
IW-10D	350	100	250	700	2.2	56	
IW-11D	350	100	300	750	2.3	36	
IW-12D	225	165	40	430	0.9	100	
IW-13D	350	250	100	700	2.0	36	
IW-14D	350	150	200	700	1.9	60	
IW-15D	350	350	0	700	1.8	86	
IW-16D	125	125	0	250	1.2	100	
	39055	**23425**	**13275**	**75755**	**2.1**	**100**	**50**

Notes

ISOTEC Stabilizer 0875 = inorganic salt used to stabilize hydrogen peroxide

ISOTEC Catalyst 4260 Component A = iron component

ISOTEC Catalyst 4260 Component B = chelating agent

H2O2 = oxidizer; injection solution comprised of hydrogen peroxide, Stabilizer 0875 and water

CAT = catalyst; neutral pH injection solution comprised of Catalyst 4260 Component A, Catalyst 4260 Component B and water

** for H2O2 columns, percentage represents hydrogen peroxide concentration

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/12/19	IW-7B	13:55	17:30	EVO/LAC	10%	300	1.4	8	
02/12/19	IW-2B	13:55	17:30	EVO/LAC	10%	300	1.4	4	
02/12/19	IW-33B	13:55	17:30	EVO/LAC	10%	300	1.4	8	
02/12/19	IW-39B	13:55	17:30	EVO/LAC	10%	300	1.4	6	
02/12/19	IW-3B	13:55	16:04	EVO/LAC	10%	250	1.9	8	surfaced 5 feet northeast
02/12/19	IW-8B	13:55	16:16	EVO/LAC	10%	250	1.8	8	surfaced 5 feet east
02/13/19	IW-6B	8:40	10:30	EVO/LAC	10%	250	2.3	6	
02/13/19	IW-14B	8:40	10:40	EVO/LAC	10%	250	2.1	6	
02/13/19	IW-26B	8:40	10:40	EVO/LAC	10%	250	2.1	6	
02/13/19	IW-32B	8:40	10:40	EVO/LAC	10%	250	2.1	6	
02/13/19	IW-12D	8:40	11:56	EVO/LAC	10%	150	0.8	50	90 psi after 150 gallons
02/13/19	IW-53A	8:40	10:30	EVO/LAC	10%	250	2.3	6	
02/13/19	IW-2A	11:06	12:59	EVO/LAC	10%	250	2.2	6	
02/13/19	IW-13B	11:06	12:59	EVO/LAC	10%	250	2.2	6	
02/13/19	IW-26A	11:06	12:55	EVO/LAC	10%	250	2.3	6	
02/13/19	IW-27A	11:06	13:26	EVO/LAC	10%	250	1.8	6	
02/13/19	IW-15B	11:06	13:15	EVO/LAC	10%	250	1.9	12	
02/13/19	IW-17B	12:08	13:52	EVO/LAC	10%	250	2.4	6	
02/13/19	IW-6A	13:08	15:15	EVO/LAC	10%	250	2.0	10	
02/13/19	IW-25B	13:08	14:50	EVO/LAC	10%	250	2.5	8	
02/13/19	IW-12B	13:08	15:15	EVO/LAC	10%	250	2.0	8	
02/13/19	IW-16B	13:27	15:36	EVO/LAC	10%	250	1.9	6	
02/13/19	IW-19B	13:27	15:49	EVO/LAC	10%	250	1.8	6	
02/13/19	IW-22B	14:00	16:00	EVO/LAC	10%	250	2.1	8	
02/13/19	IW-11D	14:53	16:41	EVO/LAC	10%	250	2.3	12	
02/13/19	IW-4B	15:24	16:56	EVO/LAC	10%	250	2.7	12	
02/13/19	IW-12A	15:24	16:57	EVO/LAC	10%	250	2.7	16	
02/13/19	IW-7C	15:40	17:21	EVO/LAC	10%	250	2.5	16	
02/13/19	IW-24B	16:00	17:36	EVO/LAC	10%	250	2.6	12	
02/13/19	IW-23A	16:20	17:18	EVO/LAC	10%	150	2.6	2	
02/13/19	IW-24A	16:47	17:23	EVO/LAC	10%	100	2.8		
02/14/19	IW-2C	7:50	9:35	EVO/LAC	10%	250	2.4	12	
02/14/19	IW-11B	7:50	9:42	EVO/LAC	10%	250	2.2	12	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/14/19	IW-9C	7:50	9:46	EVO/LAC	10%	250	2.2	22	
02/14/19	IW-24A	7:50	8:45	EVO/LAC	10%	100	1.8	10	
02/14/19	IW-23A	7:50	8:40	EVO/LAC	10%	100	2.0	10	
02/14/19	IW-18A	7:50	9:46	EVO/LAC	10%	250	2.2	6	
02/14/19	IW-1C	9:07	10:40	EVO/LAC	10%	250	2.7	12	
02/14/19	IW-9A	9:07	10:32	EVO/LAC	10%	250	2.9	4	
02/14/19	IW-5B	10:00	11:35	EVO/LAC	10%	250	2.6	12	
02/14/19	IW-5C	10:00	11:36	EVO/LAC	10%	250	2.6	16	
02/14/19	IW-10A	10:00	11:35	EVO/LAC	10%	250	2.6	2	
02/14/19	IW-8C	10:00	11:50	EVO/LAC	10%	250	2.3	20	
02/14/19	IW-17A	10:58	12:40	EVO/LAC	10%	250	2.5	4	
02/14/19	IW-52B	10:58	12:50	EVO/LAC	10%	250	2.2	18	
02/14/19	IW-20B	11:50	13:10	EVO/LAC	10%	250	3.1	30	
02/14/19	IW-10B	11:50	13:24	EVO/LAC	10%	250	2.7	14	
02/14/19	IW-14D	11:50	13:29	EVO/LAC	10%	250	2.5	70	
02/14/19	IW-10C	12:02	12:29	EVO/LAC	10%	60	2.2	22	groundwater surfaced 9 feet south
02/14/19	IW-11C	12:35	14:34	EVO/LAC	10%	200	1.7	22	
02/14/19	IW-5D	12:58	13:30	EVO/LAC	10%	120	3.8	22	undwater surfaced 9 feet northea
02/14/19	IW-24A	13:04	13:24	EVO/LAC	10%	50	2.5		
02/14/19	IW-15A	13:24	14:47	EVO/LAC	10%	250	3.0	10	
02/14/19	IW-4C	13:41	15:08	EVO/LAC	10%	250	2.9	20	
02/14/19	IW-25C	13:41	15:17	EVO/LAC	10%	250	2.6	18	
02/14/19	IW-16D	13:41	14:17	EVO/LAC	10%	50	1.4	100	100 psi after 50 gallons
02/14/19	IW-36B	13:41	15:52	EVO/LAC	10%	280	2.1	36	
02/14/19	IW-29B	14:21	15:31	EVO/LAC	10%	250	3.6	12	
02/14/19	IW-6D	14:42	17:24	EVO/LAC	10%	400	2.5	26	
02/14/19	IW-14A	14:54	16:19	EVO/LAC	10%	250	2.9	4	
02/14/19	IW-53B	15:14	16:45	EVO/LAC	10%	250	2.7	16	
02/14/19	IW-23B	15:28	17:08	EVO/LAC	10%	250	2.5	40	
02/14/19	IW-33A	15:43	17:04	EVO/LAC	10%	250	3.1	8	
02/14/19	IW-10D	16:03	17:31	EVO/LAC	10%	250	2.8	44	
02/14/19	IW-12B	16:24	17:24	EVO/LAC	10%	250	4.2	8	
02/15/19	IW-28A	7:45	9:10	EVO/LAC	10%	250	2.9	10	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/15/19	IW-1A	7:45	9:18	EVO/LAC	10%	250	2.7	0	
02/15/19	IW-24C	7:45	8:10	EVO/LAC	10%	25	1.0	100	100 psi after 25 gallons
02/15/19	IW-9B	7:45	9:24	EVO/LAC	10%	250	2.5	15	
02/15/19	IW-21C	7:45	9:58	EVO/LAC	10%	250	1.9	50	
02/15/19	IW-7D	7:45	9:15	EVO/LAC	10%	250	2.8	10	
02/15/19	IW-29A	8:17	9:40	EVO/LAC	10%	225	2.7	6	
02/15/19	IW-27B	9:15	10:45	EVO/LAC	10%	250	2.8	0	
02/15/19	IW-20C	9:18	11:11	EVO/LAC	10%	250	2.2	50	
02/15/19	IW-52A	9:22	9:45	EVO/LAC	10%	50	2.2	0	surfaced 9 feet southeast
02/15/19	IW-3C	9:26	10:58	EVO/LAC	10%	250	2.7	10	
02/15/19	IW-31B	9:43	11:20	EVO/LAC	10%	250	2.6	10	
02/15/19	IW-8A	9:50	11:04	EVO/LAC	10%	200	2.7	0	
02/15/19	IW-8D	10:03	11:35	EVO/LAC	10%	250	2.7	4	
02/15/19	IW-22A	10:48	12:07	EVO/LAC	10%	250	3.2	4	
02/15/19	IW-4A	11:03	12:30	EVO/LAC	10%	250	2.9	4	
02/15/19	IW-7A	11:09	12:35	EVO/LAC	10%	250	2.9	4	
02/15/19	IW-15C	11:15	13:16	EVO/LAC	10%	250	2.1	60	
02/15/19	IW-1D	11:23	12:50	EVO/LAC	10%	250	2.9	20	
02/15/19	IW-4D	11:40	13:16	EVO/LAC	10%	250	2.6	40	
02/15/19	IW-21B	12:10	13:34	EVO/LAC	10%	250	3.0	0	
02/15/19	IW-3A	12:34	13:49	EVO/LAC	10%	250	3.3	0	
02/15/19	IW-13A	12:40	14:04	EVO/LAC	10%	250	3.0	0	
02/15/19	IW-25A	12:53	14:18	EVO/LAC	10%	250	2.9	6	
02/15/19	IW-9D	13:20	15:16	EVO/LAC	10%	250	2.2	32	
02/15/19	IW-28B	13:20	13:22	EVO/LAC	10%	0	0.0		surfaced 6 feet southwest during initial water flush
02/15/19	IW-58A	13:26	14:50	EVO/LAC	10%	250	3.0	6	
02/15/19	IW-20B	13:40	15:00	EVO/LAC	10%	250	3.1	8	
02/15/19	IW-19A	13:54	15:12	EVO/LAC	10%	250	3.2	6	
02/15/19	IW-6C	14:09	15:47	EVO/LAC	10%	250	2.6	6	
02/15/19	IW-24B	14:40	15:45	EVO/LAC	10%	250	3.8	6	
02/15/19	IW-23C	14:52	16:23	EVO/LAC	10%	250	2.7	12	
02/15/19	IW-30A	15:05	16:33	EVO/LAC	10%	250	2.8	6	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/15/19	IW-18B	15:14	16:35	EVO/LAC	10%	250	3.1	6	
02/15/19	IW-7D	15:20	16:57	EVO/LAC	10%	250	2.6	10	
02/15/19	IW-2D	15:53	17:21	EVO/LAC	10%	250	2.8	20	
02/15/19	IW-3D	15:53	17:09	EVO/LAC	10%	250	3.3	20	
02/16/19	IW-30B	7:50	9:28	EVO/LAC	10%	250	2.6	6	
02/16/19	IW-22C	7:50	7:55	EVO/LAC	10%	0	0.0	100	100 psi during water flush
02/16/19	IW-16A	7:50	9:14	EVO/LAC	10%	250	3.0	6	
02/16/19	IW-54B	7:50	7:55	EVO/LAC	10%	0	0.0	100	100 psi during water flush
02/16/19	IW-1B	7:50	9:16	EVO/LAC	10%	250	2.9	6	
02/16/19	IW-20A	7:50	9:14	EVO/LAC	10%	250	3.0	6	
02/16/19	IW-54A	8:13	8:50	EVO/LAC	10%	100	2.7	6	surfaced 25 feet northwest
02/16/19	IW-51B	8:17	9:36	EVO/LAC	10%	250	3.2	12	
02/16/19	IW-26C	8:52	10:19	EVO/LAC	10%	150	1.7	90	
02/16/19	IW-18C	9:23	11:20	EVO/LAC	10%	250	2.1	40	
02/16/19	IW-11A	9:22	10:43	EVO/LAC	10%	250	3.1	10	
02/16/19	IW-5A	9:22	10:43	EVO/LAC	10%	250	3.1	0	
02/16/19	IW-49B	9:35	10:27	EVO/LAC	10%	125	2.4	16	surfaced 6 feet northeast
02/16/19	IW-44A	9:44	11:11	EVO/LAC	10%	250	2.9	0	
02/16/19	IW-15D	10:35	12:36	EVO/LAC	10%	250	2.1	54	
02/16/19	IW-50B	10:32	11:03	EVO/LAC	10%	75	2.4	15	surfaced 15 feet west
02/16/19	IW-19C	11:00	11:20	EVO/LAC	10%	20	1.0	50	surfaced 12 feet south
02/16/19	IW-41B	11:00	12:58	EVO/LAC	10%	250	2.1	44	
02/16/19	IW-51A	11:32	12:01	EVO/LAC	10%	50	1.7	20	surfaced 5 feet southwest
02/16/19	IW-46A	11:11	13:07	EVO/LAC	10%	250	2.2	30	
02/16/19	IW-48A	11:20	11:36	EVO/LAC	10%	25	1.6	20	surfaced 9 feet west
02/16/19	IW-45B	11:25	12:44	EVO/LAC	10%	230	2.9	22	
02/16/19	IW-43A	11:40	11:52	EVO/LAC	10%	25	2.1	16	surfaced 15 feet southwest
02/16/19	IW-14C	12:00	13:25	EVO/LAC	10%	250	2.9	40	
02/16/19	IW-56B	12:05	13:32	EVO/LAC	10%	200	2.3	86	
02/16/19	IW-48B	12:44	13:26	EVO/LAC	10%	100	2.4	14	
02/16/19	IW-35A	12:53	13:51	EVO/LAC	10%	150	2.6	14	surfaced 4 feet east
02/16/19	IW-47A	13:45	14:10	EVO/LAC	10%	70	2.8	20	surfaced 15 feet southwest
02/16/19	IW-47B	13:37	14:56	EVO/LAC	10%	200	2.5	46	surfaced 15 feet northeast

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/16/19	IW-36A	13:35	13:38	EVO/LAC	10%	0	0.0	0	surfaced 2 feet west
02/16/19	IW-46B	13:48	16:08	EVO/LAC	10%	250	1.8	52	
02/16/19	IW-13C	13:43	14:05	EVO/LAC	10%	50	2.3	15	surfaced 12 feet southeast
02/16/19	IW-34B	13:39	14:00	EVO/LAC	10%	60	2.9	10	surfaced 8 feet south
02/16/19	IW-12C	14:05	15:42	EVO/LAC	10%	250	2.6	40	
02/16/19	IW-38A	14:00	14:17	EVO/LAC	10%	30	1.8	0	surfaced 2 feet southwest
02/16/19	IW-44B	14:00	15:48	EVO/LAC	10%	250	2.3	38	
02/16/19	IW-39B	14:15	15:53	EVO/LAC	10%	250	2.6	16	
02/16/19	IW-56A	14:24	17:00	EVO/LAC	10%	250	1.6	66	
02/16/19	IW-45A	15:00	17:10	EVO/LAC	10%	300	2.3	46	
02/16/19	IW-34A	15:47	16:01	EVO/LAC	10%	40	2.9	30	surfaced 6 feet south
02/16/19	IW-37B	15:55	16:05	EVO/LAC	10%	20	2.0	12	surfaced 1 foot north
02/16/19	IW-38B	16:00	17:00	EVO/LAC	10%	130	2.2	20	surfaced 10 feet northeast
02/16/19	IW-55A	16:18	16:22	EVO/LAC	10%	10	2.5	6	surfaced 1 foot north
02/16/19	IW-43B	16:14	16:55	EVO/LAC	10%	80	2.0	45	
02/16/19	IW-50A	16:25	16:51	EVO/LAC	10%	60	2.3	20	surfaced
02/16/19	IW-32A	16:27	16:35	EVO/LAC	10%	30	3.8	8	surfaced 6 feet northwest
02/16/19	IW-35B	16:40	16:48	EVO/LAC	10%	20	2.5	10	surfaced 4 feet southeast
02/17/19	IW-13D	8:18	9:48	EVO/LAC	10%	250	2.8	14	
02/17/19	IW-12D	8:18	10:20	EVO/LAC	10%	200	1.6	82	
02/17/19	IW-37A	8:18	8:22	EVO/LAC	10%	10	2.5	10	surfaced 5 feet south
02/17/19	IW-38B	8:18	8:41	EVO/LAC	10%	50	2.2	10	surfaced 15 feet northwest
02/17/19	IW-26C	8:18	9:10	EVO/LAC	10%	100	1.9	74	
02/17/19	IW-43B	8:18	9:56	EVO/LAC	10%	250	2.6	42	
02/17/19	IW-21C	8:58	11:00	EVO/LAC	10%	250	2.0	40	
02/17/19	IW-5D	8:58	9:13	EVO/LAC	10%	25	1.7	6	surfaced 6 feet northeast
02/17/19	IW-55B	9:30	11:19	EVO/LAC	10%	250	2.3	40	
02/17/19	IW-11C	9:20	12:00	EVO/LAC	10%	425	2.7	75	
02/17/19	IW-29A	9:55	11:35	EVO/LAC	10%	250	2.5	6	
02/17/19	IW-41A	10:00	10:33	EVO/LAC	10%	50	1.5	20	surfaced 12 feet northeast
02/17/19	IW-8A	10:38	12:25	EVO/LAC	10%	300	2.8	6	
02/17/19	IW-28C	10:48	12:58	EVO/LAC	10%	150	1.2	92	
02/17/19	IW-42B	10:05	11:30	EVO/LAC	10%	50	0.6	20	surfaced

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/17/19	IW-48A	11:25	13:01	EVO/LAC	10%	250	2.6	6	surfaced 8 feet northeast
02/17/19	IW-16C	11:30	12:00	EVO/LAC	10%	25	0.8	24	surfaced 10 feet northeast
02/17/19	IW-53B	11:42	13:13	EVO/LAC	10%	250	2.7	10	
02/17/19	IW-26B	12:08	13:28	EVO/LAC	10%	250	3.1	0	
02/17/19	IW-17C	12:03	13:05	EVO/LAC	10%	125	2.0	36	surfaced 1 foot west
02/17/19	IW-14B	12:32	13:49	EVO/LAC	10%	250	3.2	6	
02/17/19	IW-57A	13:00	13:12	EVO/LAC	10%	40	3.3	30	surfaced 2 feet north
02/17/19	IW-40A	13:05	13:12	EVO/LAC	10%	10	1.4	0	surfaced 8 feet north
02/17/19	IW-39A	13:24	13:40	EVO/LAC	10%	50	3.1	28	surfaced 3 feet north
02/17/19	IW-4C	13:21	14:53	EVO/LAC	10%	250	2.7	6	
02/17/19	IW-27C	13:15	15:18	EVO/LAC	10%	250	2.0	80	
02/17/19	IW-42A	13:26	15:18	EVO/LAC	10%	250	2.2	38	
02/17/19	IW-28A	13:36	14:45	EVO/LAC	10%	250	3.6	0	
02/17/19	IW-33A	13:45	15:17	EVO/LAC	10%	250	2.7	4	
02/17/19	IW-7B	13:53	15:28	EVO/LAC	10%	250	2.6	0	
02/17/19	IW-22A	14:52	15:40	EVO/LAC	10%	150	3.1	0	
02/17/19	IW-11A	15:06	16:32	EVO/LAC	10%	250	2.9	10	
02/17/19	IW-2B	15:46	17:00	EVO/LAC	10%	250	3.4	10	
02/17/19	IW-9B	15:46	16:01	EVO/LAC	10%	60	4.0	10	surfaced 3 feet east
02/17/19	IW-3A	15:46	17:08	EVO/LAC	10%	250	3.0	10	
02/17/19	IW-17A	15:46	17:08	EVO/LAC	10%	250	3.0	0	
02/17/19	IW-53A	15:46	17:08	EVO/LAC	10%	250	3.0	14	
02/17/19	IW-10A	16:07	17:03	EVO/LAC	10%	200	3.6	2	
02/18/19	IW-22A	7:45	8:33	EVO/LAC	10%	100	2.1	0	
02/18/19	IW-10B	7:45	9:22	EVO/LAC	10%	250	2.6	20	
02/18/19	IW-15A	7:45	9:12	EVO/LAC	10%	250	2.9	4	
02/18/19	IW-10A	7:45	8:23	EVO/LAC	10%	100	2.6	6	
02/18/19	IW-16A	7:45	9:42	EVO/LAC	10%	250	2.1	6	faced 4 feet east, continued inject
02/18/19	IW-31B	7:45	9:21	EVO/LAC	10%	250	2.6	10	
02/18/19	IW-3C	8:29	10:00	EVO/LAC	10%	250	2.7	12	
02/18/19	IW-27B	8:40	9:47	EVO/LAC	10%	250	3.7	8	
02/18/19	IW-9A	9:45	11:20	EVO/LAC	10%	250	2.6	0	
02/18/19	IW-13B	9:21	10:42	EVO/LAC	10%	250	3.1	10	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/18/19	IW-30A	9:27	10:58	EVO/LAC	10%	250	2.7	6	
02/18/19	IW-11B	9:27	11:00	EVO/LAC	10%	250	2.7	10	
02/18/19	IW-21B	9:52	11:07	EVO/LAC	10%	250	3.3	12	
02/18/19	IW-4A	10:06	11:40	EVO/LAC	10%	250	2.7	4	
02/18/19	IW-7A	10:47	12:14	EVO/LAC	10%	250	2.9	10	
02/18/19	IW-33B	11:00	12:54	EVO/LAC	10%	250	2.2	8	
02/18/19	IW-5C	11:05	12:47	EVO/LAC	10%	250	2.5	16	
02/18/19	IW-20B	11:10	12:30	EVO/LAC	10%	250	3.1	6	
02/18/19	IW-3A	11:23	13:00	EVO	10%	250	2.6	4	
02/18/19	IW-5A	11:47	14:46	EVO	10%	500	2.8	0	
02/18/19	IW-2A	12:19	13:35	EVO	10%	250	3.3	4	
02/18/19	IW-27A	12:30	13:55	EVO	10%	250	2.9	4	
02/18/19	IW-14A	12:58	14:25	EVO	10%	250	2.9	8	
02/18/19	IW-32B	13:04	14:46	EVO	10%	250	2.5	16	
02/18/19	IW-16A	13:09	13:40	EVO	10%	75	2.4	0	surfaced 4 feet east
02/18/19	IW-9A	13:40	14:50	EVO	10%	175	2.5	4	
02/18/19	IW-6B	13:40	16:45	EVO	10%	500	2.7	20	
02/18/19	IW-21A	14:00	15:15	EVO/LAC	10%	250	3.3	8	
02/18/19	IW-21A	15:15	16:34	EVO	10%	250	3.2	8	
02/18/19	IW-13A	14:30	17:15	EVO	10%	500	3.0	10	
02/18/19	IW-25B	15:00	17:15	EVO	10%	325	2.4	16	
02/18/19	IW-1A	15:00	17:15	EVO	10%	375	2.8	8	
02/18/19	IW-13D	15:00	17:12	EVO	10%	325	2.5	40	
02/19/19	IW-25B	7:45	9:18	EVO	10%	175	1.9	0	
02/19/19	IW-1A	7:45	8:32	EVO	10%	125	2.7	0	
02/19/19	IW-13A	7:45	8:55	EVO	10%	175	2.5	30	
02/19/19	IW-5B	7:45	10:24	EVO	10%	500	3.1	18	
02/19/19	IW-2D	7:45	10:44	EVO	10%	500	2.8	50	
02/19/19	IW-6C	7:45	10:52	EVO	10%	500	2.7	18	
02/19/19	IW-8D	8:40	11:40	EVO	10%	500	2.8	4	
02/19/19	IW-7C	9:00	11:55	EVO	10%	500	2.9	20	
02/19/19	IW-26A	9:23	12:49	EVO	10%	500	2.4	16	
02/19/19	IW-6A	10:32	13:15	EVO	10%	500	3.1	16	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/19/19	IW-31A	10:50	11:24	EVO	10%	100	2.9	10	surfaced 10 feet west
02/19/19	IW-19B	11:00	13:48	EVO	10%	500	3.0	0	
02/19/19	IW-18C	11:27	11:50	EVO	10%	50	2.2	30	surfaced 12 feet north
02/19/19	IW-9D	11:48	12:20	EVO	10%	40	1.3	100	100 psi after 40 gallons
02/19/19	IW-31B	11:51	13:38	EVO	10%	350	3.3	20	
02/19/19	IW-18A	12:02	15:06	EVO	10%	500	2.7	0	
02/19/19	IW-10D	12:26	15:50	EVO	10%	500	2.5	24	
02/19/19	IW-18B	12:55	16:08	EVO	10%	500	2.6	18	
02/19/19	IW-12A	13:22	15:57	EVO	10%	500	3.2	4	
02/19/19	IW-30B	13:45	15:42	EVO	10%	400	3.4	16	
02/19/19	IW-9C	13:54	16:50	EVO	10%	500	2.8	20	
02/19/19	IW-10A	15:13	16:50	EVO	10%	300	3.1	4	
02/19/19	IW-25C	15:45	16:45	EVO	10%	200	3.3	18	
02/19/19	IW-12C	16:07	16:50	EVO	10%	100	2.3	40	
02/19/19	IW-20A	16:07	16:43	EVO	10%	125	3.5	4	
02/19/19	IW-19A	16:14	16:57	EVO	10%	100	2.3	4	
02/20/19	IW-10A	7:48	8:52	EVO	10%	200	3.1	4	
02/20/19	IW-25C	7:48	8:46	EVO	10%	200	3.4	20	
02/20/19	IW-12C	7:48	8:38	EVO	10%	150	3.0	20	surfaced 8 feet southeast
02/20/19	IW-20A	7:48	9:52	EVO	10%	375	3.0	4	
02/20/19	IW-19A	7:48	10:07	EVO	10%	400	2.9	18	
02/20/19	IW-25A	7:48	10:27	EVO	10%	500	3.1	20	
02/20/19	IW-4D	8:40	11:54	EVO	10%	500	2.6	45	
02/20/19	IW-14D	8:50	11:40	EVO	10%	500	2.9	45	ed 5 feet northeast, injection cont
02/20/19	IW-3B	8:55	10:45	EVO	10%	500	4.5	6	
02/20/19	IW-11D	10:00	12:41	EVO	10%	500	3.1	16	
02/20/19	IW-8C	10:13	13:00	EVO	10%	500	3.0	16	
02/20/19	IW-3D	10:36	13:13	EVO	10%	500	3.2	20	
02/20/19	IW-4A	10:47	13:36	EVO	10%	500	3.0	4	
02/20/19	IW-23A	11:47	14:10	EVO	10%	500	3.5	10	
02/20/19	IW-41B	12:00	14:50	EVO	10%	500	2.9	42	
02/20/19	IW-1D	12:45	15:26	EVO	10%	500	3.1	22	
02/20/19	IW-17B	13:06	16:02	EVO	10%	500	2.8	8	surfaced 3 feet east

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/20/19	IW-9B	13:21	13:45	EVO	10%	75	3.1	10	
02/20/19	IW-17A	13:29	16:27	EVO	10%	500	2.8	10	
02/20/19	IW-23B	13:48	16:40	EVO	10%	500	2.9	24	
02/20/19	IW-45B	14:19	15:45	EVO	10%	250	2.9	22	
02/20/19	IW-20C	15:00	17:00	EVO	10%	250	2.1	44	
02/20/19	IW-22B	15:39	17:00	EVO	10%	250	3.1	14	
02/20/19	IW-29B	15:49	17:06	EVO	10%	250	3.2	10	
02/20/19	IW-52B	16:10	17:02	EVO	10%	125	2.4	16	
02/21/19	IW-5C	8:25	10:00	EVO	10%	250	2.6	26	
02/21/19	IW-2C	8:25	11:11	EVO	10%	500	3.0	12	
02/21/19	IW-52B	8:25	10:40	EVO	10%	375	2.8	12	
02/21/19	IW-10A	8:07	9:21	EVO	10%	250	3.4	8	
02/21/19	IW-53A	8:07	11:20	EVO	10%	500	2.6	16	
02/21/19	IW-9A	8:07	10:33	EVO	10%	425	2.9	6	
02/21/19	IW-22B	9:32	12:05	EVO	10%	500	3.3	14	
02/21/19	IW-12A	10:05	10:44	EVO	10%	75	1.9	4	
02/21/19	IW-15B	11:25	12:00	EVO	10%	150	4.3	4	surfaced 8 feet east
02/21/19	IW-1C	10:49	13:55	EVO	10%	500	2.7	10	
02/21/19	IW-1B	10:50	13:28	EVO	10%	500	3.2	4	
02/21/19	IW-4B	11:15	13:55	EVO	10%	500	3.1	12	
02/21/19	IW-46B	11:00	14:30	EVO	10%	500	2.4	40	
02/21/19	IW-48B	12:04	13:00	EVO	10%	150	2.7	14	surfaced 1 foot east
02/21/19	IW-16B	12:12	14:53	EVO	10%	500	3.1	4	
02/21/19	IW-15D	13:06	16:00	EVO	10%	450	2.6	52	
02/21/19	IW-24A	13:33	16:00	EVO	10%	500	3.4	4	
02/21/19	IW-52A	14:02	14:25	EVO	10%	50	2.2	0	surfaced 10 feet southeast
02/21/19	IW-51B	14:07	17:00	EVO	10%	500	2.9	16	
02/21/19	IW-5A	14:30	15:33	EVO	10%	200	3.2	0	
02/21/19	IW-42A	14:37	17:00	EVO	10%	400	2.8	30	
02/21/19	IW-46A	15:00	17:00	EVO	10%	375	3.1	28	
02/21/19	IW-24B	15:40	16:45	EVO	10%	250	3.8	20	
02/21/19	IW-27C	16:10	17:00	EVO	10%	100	2.0	70	
02/21/19	IW-58A	16:10	17:00	EVO	10%	175	3.5		

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Daily Injection Summary
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Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/22/19	IW-51B	7:50	10:57	EVO	10%	500	2.7	20	
02/22/19	IW-42A	7:50	9:45	EVO	10%	500	4.3	26	
02/22/19	IW-33A	7:50	10:15	EVO	10%	500	3.4	0	
02/22/19	IW-58A	7:50	9:16	EVO	10%	325	3.8	4	
02/22/19	IW-46A	7:50	9:47	EVO	10%	375	3.2	28	
02/22/19	IW-27C	7:50	10:21	EVO	10%	400	2.6	70	
02/22/19	IW-36B	9:25	10:10	EVO	10%	125	2.8	40	surfaced 8 feet southeast
02/22/19	IW-44A	9:52	12:25	EVO	10%	500	3.3	5	
02/22/19	IW-45A	9:57	12:32	EVO	10%	500	3.2	44	
02/22/19	IW-23C	10:12	13:00	EVO	10%	625	3.7	35	
02/22/19	IW-12D	10:20	13:10	EVO	10%	500	2.9	50	
02/22/19	IW-47B	10:31	11:33	EVO	10%	175	2.8	8	surfaced 15 feet north
02/22/19	IW-48A	11:00	11:15	EVO	10%	10	0.7	0	surfaced 8 feet southwest
02/22/19	IW-13D	11:24	13:08	EVO	10%	240	2.3	20	
02/22/19	IW-28C	11:35	12:50	EVO	10%	125	1.7	90	
02/22/19	IW-44B	12:30	15:01	EVO	10%	500	3.3	30	
02/22/19	IW-55B	12:38	15:31	EVO	10%	500	2.9	55	
02/22/19	IW-56B	12:51	15:30	EVO	10%	450	2.8	55	
02/22/19	IW-26C	13:16	14:00	EVO	10%	100	2.3	60	surfaced 3 feet west
02/22/19	IW-53B	13:16	15:38	EVO	10%	250	1.8	10	
02/22/19	IW-18A	13:16	14:42	EVO	10%	250	2.9	12	
02/22/19	IW-40B	14:00	14:24	EVO	10%	25	1.0	0	surfaced 4 feet southwest
02/22/19	IW-6D	14:28	16:36	EVO	10%	375	2.9	20	
02/22/19	IW-28A	14:51	16:15	EVO	10%	250	3.0	0	
02/22/19	IW-43B	15:11	16:34	EVO	10%	250	3.0		
02/22/19	IW-56A	15:52	16:57	EVO	10%	250	3.8		
02/22/19	IW-8B	15:52	16:10	EVO	10%	60	3.3		surfaced 2 feet east
02/22/19	IW-22B	16:15	17:05	EVO	10%	190	3.8		
02/22/19	IW-11A	15:43	17:00	EVO	10%	250	3.2		
02/22/19	IW-27B	16:20	17:10	EVO	10%	150	3.0		
02/23/19	IW-22B	7:42	8:54	EVO	10%	250	3.5	10	
02/23/19	IW-11A	7:49	8:59	EVO	10%	250	3.6	25	
02/23/19	IW-27B	7:55	8:26	EVO	10%	100	3.2	20	

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Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/23/19	IW-56A	7:44	9:06	EVO	10%	250	3.0	30	
02/23/19	IW-43B	7:59	9:20	EVO	10%	250	3.1	15	
02/23/19	IW-8D	7:47	8:52	EVO	10%	250	3.8	0	
02/23/19	IW-27A	8:32	9:42	EVO	10%	250	3.6	5	
02/23/19	IW-29B	8:59	10:07	EVO	10%	250	3.7	5	
02/23/19	IW-17C	9:01	9:19	EVO	10%	50	2.8	35	surfaced from well concrete pad
02/23/19	IW-4C	9:05	10:22	EVO	10%	250	3.2	20	
02/23/19	IW-20C	9:10	10:33	EVO	10%	250	3.0	45	
02/23/19	IW-21C	9:20	9:47	EVO	10%	100	3.7	55	surfaced 6 feet south
02/23/19	IW-11C	9:25	10:47	EVO	10%	250	3.0	75	
02/23/19	IW-30A	9:46	11:00	EVO	10%	250	3.4	10	
02/23/19	IW-14C	9:51	11:52	EVO	10%	500	4.1	40	
02/23/19	IW-3A	10:17	11:27	EVO	10%	250	3.6	5	
02/23/19	IW-52A	10:25	10:38	EVO	10%	50	3.8	5	
02/23/19	IW-9D	10:38	14:16	EVO	10%	500	2.3	85	
02/23/19	IW-2B	10:41	11:34	EVO	10%	200	3.8	0	
02/23/19	IW-19A	10:53	12:00	EVO	10%	250	3.7	5	
02/23/19	IW-26B	11:03	12:11	EVO	10%	250	3.7	12	
02/23/19	IW-3C	11:29	12:50	EVO	10%	250	3.1	15	
02/23/19	IW-7A	11:38	12:52	EVO	10%	250	3.4	0	
02/23/19	IW-45B	11:54	13:14	EVO	10%	350	4.4	30	
02/23/19	IW-29A	12:04	13:15	EVO	10%	250	3.5	0	
02/23/19	IW-22A	12:15	13:29	EVO	10%	250	3.4	5	
02/23/19	IW-9B	12:59	13:17	EVO	10%	50	2.8	15	
02/23/19	IW-7B	12:55	14:00	EVO	10%	250	3.8	20	
02/23/19	IW-39B	13:22	14:20	EVO	10%	250	4.3	5	
02/23/19	IW-32B	13:26	14:40	EVO	10%	250	3.4	0	
02/23/19	IW-10B	13:19	14:20	EVO	10%	200	3.3	10	
02/23/19	IW-21B	13:34	14:43	EVO	10%	250	3.6	5	
02/23/19	IW-8A	14:00	15:18	EVO	10%	250	3.2	0	
02/23/19	IW-41B	14:27	15:45	EVO	10%	250	3.2	45	
02/23/19	IW-20A	14:29	15:41	EVO	10%	250	3.5	20	
02/23/19	IW-30B	14:32	15:32	EVO	10%	250	4.2	5	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/23/19	IW-49B	14:46	15:22	EVO	10%	125	3.5	10	
02/23/19	IW-14A	14:49	16:04	EVO	10%	250	3.3	10	
02/23/19	IW-14B	15:22	16:27	EVO	10%	250	3.8	5	
02/23/19	IW-44A	15:26	17:01	EVO	10%	250	2.6	0	
02/23/19	IW-25C	15:37	16:37	EVO	10%	250	4.2	25	
02/23/19	IW-11B	15:48	16:59	EVO	10%	250	3.5	10	
02/23/19	IW-15C	15:52	17:01	EVO	10%	125	1.8	75	
02/23/19	IW-21A	16:08	17:01	EVO	10%	150	2.8	0	
02/24/19	IW-21A	7:45	8:54	EVO	10%	225	3.3	0	
02/24/19	IW-15C	7:41	9:55	EVO	10%	375	2.8	75	
02/24/19	IW-12B	7:38	9:04	EVO	10%	250	2.9	10	
02/24/19	IW-16A	7:40	8:09	EVO	10%	75	2.6	10	surfaced 3 feet east
02/24/19	IW-50B	7:42	8:25	EVO	10%	100	2.3	10	surfaced 15 feet west
02/24/19	IW-15A	7:44	8:38	EVO	10%	250	4.6	0	
02/24/19	IW-53A	8:10	9:44	EVO	10%	425	4.5	15	
02/24/19	IW-51B	8:30	9:15	EVO	10%	150	3.3	20	
02/24/19	IW-2A	8:45	9:54	EVO	10%	250	3.6	0	
02/24/19	IW-33B	8:55	10:18	EVO	10%	250	3.0	10	
02/24/19	IW-13B	9:10	10:17	EVO	10%	250	3.7	0	
02/24/19	IW-46A	9:22	10:11	EVO	10%	150	3.1	25	
02/24/19	IW-20C	9:50	14:10	EVO	10%	750	2.9	45	E
02/24/19	IW-5A	9:57	11:00	EVO	10%	250	4.0	0	
02/24/19	IW-12C	10:01	10:09	EVO	10%	25	3.1	60	surfaced 7 feet southeast
02/24/19	IW-11C	10:13	13:12	EVO	10%	425	2.4	50	
02/24/19	IW-35A	10:22	11:58	EVO	10%	350	3.6	35	
02/24/19	IW-20A	10:24	12:10	EVO	10%	250	2.4	0	
02/24/19	IW-4A	10:24	12:00	EVO	10%	375	3.9	0	
02/24/19	IW-9A	11:11	12:55	EVO	10%	375	3.6	5	
02/24/19	IW-18C	12:01	12:25	EVO	10%	25	1.0	40	surfaced 10 feet north
02/24/19	IW-38B	12:00	12:17	EVO	10%	50	2.9	35	surfaced 10 feet west
02/24/19	IW-14C	12:40	13:22	EVO	10%	50	1.2	5	
02/24/19	IW-43B	12:20	13:12	EVO	10%	125	2.4	40	
02/24/19	IW-25C	12:44	15:05	EVO	10%	375	2.7	20	E

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/24/19	IW-11A	13:04	14:46	EVO	10%	425	4.2	0	
02/24/19	IW-25B	13:20	14:15	EVO	10%	225	4.1	5	
02/24/19	IW-27B	13:33	14:59	EVO	10%	300	3.5	5	
02/25/19	IW-11A	10:50	11:20	AW		70	2.3	10	
02/25/19	IW-11A	10:50	10:51	DHC	3.3X	0.5	0.5	10	
02/25/19	IW-11B	11:10	11:40	AW		70	2.3	10	
02/25/19	IW-11B	11:25	11:26	DHC	3.3X	0.5	0.5	10	
02/25/19	IW-12A	11:23	12:00	AW		70	1.9	8	
02/25/19	IW-12A	11:41	11:42	DHC	3.3X	0.5	0.5	8	
02/25/19	IW-6A	11:37	12:00	AW		70	3.0	0	
02/25/19	IW-6A	11:49	11:50	DHC	3.3X	0.5	0.5	0	
02/25/19	IW-5A	12:05	13:25	AW		70	0.9	0	
02/25/19	IW-5A	12:45	12:46	DHC	3.3X	0.5	0.5	0	
02/25/19	IW-12D	12:45	14:56	AW		100	0.8	60	
02/25/19	IW-12D	13:55	13:56	DHC	3.3X	0.5	0.5	60	
02/25/19	IW-11A	13:10	15:01	EVO	10%	250	2.3	10	
02/25/19	IW-23A	13:15	14:05	AW		100	2.0	10	
02/25/19	IW-23A	13:45	14:46	DHC	3.3X	0.5	0.0	10	
02/25/19	IW-23A	14:05	15:37	EVO	10%	250	2.7	10	
02/25/19	IW-6A	13:10	14:26	EVO	10%	250	3.3	10	
02/25/19	IW-45B	13:59	14:35	AW		70	1.9	20	
02/25/19	IW-45B	14:16	14:17	DHC	3.3X	0.5	0.5	20	
02/25/19	IW-45B	14:35	15:30	EVO	10%	150	2.7	20	
02/25/19	IW-4D	14:20	15:02	AW		100	2.4	30	
02/25/19	IW-4D	14:41	14:42	DHC	3.3X	0.5	0.5	30	
02/25/19	IW-5A	13:37	15:33	EVO	10%	250	2.2	10	
02/25/19	IW-18A	14:57	15:18	AW		70	3.3	0	
02/25/19	IW-18A	15:09	15:10	DHC	3.3X	0.5	0.5	0	
02/25/19	IW-6D	15:03	15:36	AW		100	3.0	45	
02/25/19	IW-6D	15:18	15:19	DHC	3.3X	0.5	0.5	45	
02/25/19	IW-6D	15:36	17:15	EVO	10%	250	2.5	45	
02/25/19	IW-11B	15:08	17:00	EVO	10%	250	2.2	20	
02/25/19	IW-34A	15:20	16:00	AW		70	1.8	5	

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Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/25/19	IW-34A	15:40	15:41	DHC	3.3X	0.5	0.5		
02/25/19	IW-46A	15:36	16:06	AW		70	2.3	30	
02/25/19	IW-46A	15:50	15:52	DHC	3.3X	0.5	0.3		
02/25/19	IW-22A	15:40	16:07	AW		70	2.6	15	
02/25/19	IW-22A	15:50	15:51	DHC	3.3X	0.5	0.5		
02/25/19	IW-22A	16:07	17:20	EVO	10%	250	3.4	15	
02/25/19	IW-1A	15:44	16:08	AW		70	2.9	0	
02/25/19	IW-1A	15:53	15:54	DHC	3.3X	0.5	0.5		
02/25/19	IW-1A	16:08	17:22	EVO	10%	250	3.4	0	
02/25/19	IW-33B	16:00	16:25	AW		70	2.8	0	
02/25/19	IW-33B	16:13	16:14	DHC	3.3X	0.5	0.5		
02/25/19	IW-49B	16:08	16:30	AW		70	3.2	10	
02/25/19	IW-49B	16:19	16:29	DHC	3.3X	0.5	0.1		
02/25/19	IW-27A	16:30	17:05	AW		70	2.0	0	
02/25/19	IW-27A	16:47	16:48	DHC	3.3X	0.5	0.5		
02/25/19	IW-51B	16:33	17:00	AW		70	2.6	0	
02/25/19	IW-51B	16:46	16:47	DHC	3.3X	0.5	0.5	0	
02/26/19	IW-12A	7:55	9:41	EVO	10%	250	2.4	0	
02/26/19	IW-18A	7:30	8:53	EVO	10%	250	3.0	0	
02/26/19	IW-39B	8:10	8:36	AW		70	2.7	10	
02/26/19	IW-39B	8:25	8:26	DHC	3.3X	0.5	0.5		
02/26/19	IW-39B	8:36	10:00	EVO	10%	250	3.0	10	
02/26/19	IW-27A	8:00	9:18	EVO	10%	250	3.2	0	
02/26/19	IW-27C	8:25	9:01	AW		80	2.2	60	
02/26/19	IW-27C	8:45	8:45	DHC	3.3X	0.5			
02/26/19	IW-27C	9:01	10:25	EVO	10%	250	3.0	60	
02/26/19	IW-17B	8:58	9:30	AW		70	2.2	5	
02/26/19	IW-17B	9:13	9:13	DHC	3.3X	0.5		5	
02/26/19	IW-17B	9:30	9:48	EVO	10%	50	2.8	5	surfaced 3 feet east
02/26/19	IW-27B	9:22	9:50	AW		70	2.5	0	
02/26/19	IW-27B	9:39	9:39	DHC	3.3X	0.5		0	
02/26/19	IW-27B	9:50	11:02	EVO	10%	250	3.5	6	
02/26/19	IW-28C	9:27	10:15	AW		80	1.7	60	

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Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/26/19	IW-28C	9:52	9:52	DHC	3.3X	0.5		60	
02/26/19	IW-28C	10:15	12:21	EVO	10%	250	2.0	60	
02/26/19	IW-10B	9:43	10:23	AW		70	1.8	20	
02/26/19	IW-10B	10:04	10:04	DHC	3.3X	0.5		20	
02/26/19	IW-10B	10:23	12:03	EVO	10%	250	2.5	20	
02/26/19	IW-12D	9:49	10:53	EVO	10%	200	3.1	70	
02/26/19	IW-44A	10:10	10:41	AW		70	2.3	15	
02/26/19	IW-44A	10:25	10:25	DHC	3.3X	0.5		15	
02/26/19	IW-44A	10:41	11:45	EVO	10%	250	3.9	15	
02/26/19	IW-55B	10:43	11:09	AW		70	2.7	20	
02/26/19	IW-55B	10:55	10:55	DHC	3.3X	0.5		20	
02/26/19	IW-55B	11:09	12:23	EVO	10%	250	3.4	20	
02/26/19	IW-7C	11:00	11:30	AW		80	2.7	10	
02/26/19	IW-7C	11:15	11:15	DHC	3.3X	0.5		15	
02/26/19	IW-7C	11:30	12:38	EVO	10%	250	3.7	15	
02/26/19	IW-28A	11:05	11:30	AW		70	2.8	5	
02/26/19	IW-28A	11:17	11:17	DHC	3.3X	0.5		7	
02/26/19	IW-28A	11:30	12:37	EVO	10%	250	3.7	7	
02/26/19	IW-44B	12:03	12:32	AW		70	2.4	10	
02/26/19	IW-44B	12:17	12:17	DHC	3.3X	0.5		10	
02/26/19	IW-44B	12:32	13:42	EVO	10%	250	3.6	10	
02/26/19	IW-13A	12:09	12:43	AW		70	2.1	10	
02/26/19	IW-13A	12:23	12:23	DHC	3.3X	0.5		10	
02/26/19	IW-13A	12:43	14:55	EVO	10%	250	1.9	10	
02/26/19	IW-15D	12:34	13:07	AW		100	3.0	70	
02/26/19	IW-15D	12:57	13:15	DHC	3.3X	0.5	0.0	70	
02/26/19	IW-15D	13:07	15:02	EVO	10%	250	2.2	70	
02/26/19	IW-43B	12:30	13:02	AW		70	2.2	35	
02/26/19	IW-43B	12:46	12:46	DHC	3.3X	0.5		35	
02/26/19	IW-43B	13:02	14:16	EVO	10%	250	3.4	35	
02/26/19	IW-26B	12:40	13:09	AW		70	2.4	20	
02/26/19	IW-26B	12:55	12:55	DHC	3.3X	0.5		20	
02/26/19	IW-26B	13:09	14:12	EVO	10%	250	4.0	20	

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/26/19	IW-25C	12:43	13:13	AW		70	2.3	20	Surfaced in well casing
02/26/19	IW-25C	12:58	12:58	DHC	3.3X	0.5		20	
02/26/19	IW-2D	13:15	13:45	AW		100	3.3	20	
02/26/19	IW-2D	13:30	13:30	DHC	3.3X	0.5		20	
02/26/19	IW-2D	13:45	15:03	EVO	10%	250	3.2	20	
02/26/19	IW-29B	13:44	14:06	AW		70	3.2	15	
02/26/19	IW-29B	13:56	13:56	DHC	3.3X	0.5		15	
02/26/19	IW-29B	14:06	16:10	EVO	10%	250	2.0	15	
02/26/19	IW-1D	14:15	14:50	AW		100	2.9	20	
02/26/19	IW-1D	14:33	14:33	DHC	3.3X	0.5		20	
02/26/19	IW-1D	14:50	16:00	EVO	10%	250	3.6	20	
02/26/19	IW-46B	14:26	15:11	AW		70	1.6	50	
02/26/19	IW-46B	14:44	14:44	DHC	3.3X	0.5		50	
02/26/19	IW-46B	15:11	16:25	EVO	10%	250	3.4	60	
02/26/19	IW-7B	15:00	15:27	AW		70	2.6	5	
02/26/19	IW-7B	15:16	15:16	DHC	3.3X	0.5		5	
02/26/19	IW-7B	15:27	16:52	EVO	10%	250	2.9	5	
02/26/19	IW-42A	15:10	15:35	AW		70	2.8	60	
02/26/19	IW-42A	15:19	15:19	DHC	3.3X	0.5		60	
02/26/19	IW-42A	15:35	16:58	EVO	10%	250	3.0	60	
02/26/19	IW-30B	15:13	15:35	AW		70	3.2	10	
02/26/19	IW-30B	15:21	15:21	DHC	3.3X	0.5		10	
02/26/19	IW-3D	15:37	16:12	AW		100	2.9	20	
02/26/19	IW-3D	15:55	15:55	DHC	3.3X	0.5		20	
02/26/19	IW-3D	16:12	17:27	EVO	10%	250	3.3	20	
02/26/19	IW-19A	16:03	16:39	AW		70	1.9	0	
02/26/19	IW-19A	16:20	16:20	DHC	3.3X	0.5		0	
02/26/19	IW-19A	16:39	17:32	EVO	10%	150	2.8	0	
02/26/19	IW-58A	16:17	16:50	AW		70	2.1	10	
02/26/19	IW-58A	16:36	16:36	DHC	3.3X	0.5		10	
02/26/19	IW-15C	16:32	17:04	AW		80	2.5	60	
02/26/19	IW-15C	16:50	16:50	DHC	3.3X	0.5		60	
02/27/19	IW-15C	7:40	8:52	EVO	10%	250	3.5		

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Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/27/19	IW-58A	7:45	9:00	EVO	10%	250	3.3		
02/27/19	IW-19A	7:45	8:13	EVO	10%	100	3.6		
02/27/19	IW-24A	7:48	8:13	AW		70	2.8		
02/27/19	IW-24A			DHC	3.3X	0.5			
02/27/19	IW-24A	8:13	9:29	EVO	10%	250	3.3		
02/27/19	IW-1B	7:47	8:10	AW		70	3.0		
02/27/19	IW-1B			DHC	3.3X	0.5			
02/27/19	IW-1B	8:10	9:34	EVO	10%	250	3.0		
02/27/19	IW-25B	7:50	8:24	AW		70	2.1		
02/27/19	IW-25B			DHC	3.3X	0.5			
02/27/19	IW-25B	8:24	9:47	EVO	10%	275	3.3		
02/27/19	IW-53B	7:51	8:23	AW		70	2.2		
02/27/19	IW-53B			DHC	3.3X	0.5			
02/27/19	IW-53B	8:23	9:34	EVO	10%	250	3.5		
02/27/19	IW-11C	8:46	9:14	AW		80	2.9		
02/27/19	IW-11C			DHC	3.3X	0.5			
02/27/19	IW-11C	9:14	9:45	EVO	10%	100	3.2		
02/27/19	IW-53A	9:20	9:48	AW		70	2.5		
02/27/19	IW-53A			DHC	3.3X	0.5			
02/27/19	IW-53A	9:48	11:04	EVO	10%	75	1.0		
02/27/19	IW-23B	9:30	10:06	AW		70	1.9		
02/27/19	IW-23B			DHC	3.3X	0.5			
02/27/19	IW-23B	10:06	11:19	EVO	10%	250	3.4		
02/27/19	IW-9C	9:30	9:56	AW		80	3.1		
02/27/19	IW-9C			DHC	3.3X	0.5			
02/27/19	IW-9C	9:56	11:05	EVO	10%	250	3.6		
02/27/19	IW-52B	9:30	10:00	AW		70	2.3		
02/27/19	IW-52B			DHC	3.3X	0.5			
02/27/19	IW-52B	10:00	11:40	EVO	10%	250	2.5		
02/27/19	IW-19B	9:30	10:01	AW		70	2.3		
02/27/19	IW-19B			DHC	3.3X	0.5			
02/27/19	IW-25B	10:01	10:10	EVO	10%	25	2.8		
02/27/19	IW-20C	10:00	10:36	AW		80	2.2		

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Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/27/19	IW-20C			DHC	3.3X	0.5			
02/27/19	IW-5A	10:10	10:30	EVO	10%	125	6.3		
02/27/19	IW-10B	10:30	10:46	EVO	10%	50	3.1		
02/27/19	IW-6C	10:46	11:11	AW		80	3.2		
02/27/19	IW-6C			DHC	3.3X	0.5			
02/27/19	IW-6C	11:11	12:20	EVO	10%	250	3.6		
02/27/19	IW-31B	10:48	11:11	AW		70	3.0		
02/27/19	IW-31B			DHC	3.3X	0.5			
02/27/19	IW-31B	11:11	11:53	EVO	10%	150	3.6		
02/27/19	IW-23C	11:05	11:31	AW		80	3.1		
02/27/19	IW-23C			DHC	3.3X	0.5			
02/27/19	IW-23C	11:31	13:10	EVO	10%	225	2.3		
02/27/19	IW-16B	11:26	11:54	AW		70	2.5		
02/27/19	IW-16B			DHC	3.3X	0.5			
02/27/19	IW-16B	11:54	14:43	EVO	10%	500	3.0		
02/27/19	IW-46A	11:48	12:28	EVO	10%	100	2.5		
02/27/19	IW-18B	11:52	12:22	AW		70	2.3		
02/27/19	IW-18B			DHC	3.3X	0.5			
02/27/19	IW-18B	12:22	13:24	EVO	10%	250	4.0		
02/27/19	IW-9A	11:55	12:22	AW		70	2.6		
02/27/19	IW-9A			DHC	3.3X	0.5			
02/27/19	IW-14B	12:10	12:38	AW		70	2.5		
02/27/19	IW-14B			DHC	3.3X	0.5			
02/27/19	IW-14B	12:38	13:47	EVO	10%	250	3.6		
02/27/19	IW-17A	12:27	12:55	AW		70	2.5		
02/27/19	IW-17A			DHC	3.3X	0.5			
02/27/19	IW-17A	12:55	14:02	EVO	10%	225	3.4		
02/27/19	IW-3B	12:30	12:55	AW		70	2.8		
02/27/19	IW-3B			DHC	3.3X	0.5			
02/27/19	IW-3B	12:55	13:10	EVO	10%	50	3.3		
02/27/19	IW-1C	13:10	13:41	AW		80	2.6		
02/27/19	IW-1C			DHC	3.3X	0.5			
02/27/19	IW-1C	13:41	15:20	EVO	10%	250	2.5		

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Former American Linen Suppy
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/27/19	IW-22B	13:15	13:50	AW		70	2.0		
02/27/19	IW-22B			DHC	3.3X	0.5			
02/27/19	IW-30A	13:29	14:02	AW		70	2.1		
02/27/19	IW-30A			DHC	3.3X	0.5			
02/27/19	IW-30A	14:02	15:10	EVO	10%	250	3.7		
02/27/19	IW-29A	14:00	14:30	AW		70	2.3		
02/27/19	IW-29A			DHC	3.3X	0.5			
02/27/19	IW-29A	14:30	15:39	EVO	10%	250	3.6		
02/27/19	IW-4B	14:00	14:30	AW		70	2.3		
02/27/19	IW-4B			DHC	3.3X	0.5			
02/27/19	IW-4B	14:30	15:40	EVO	10%	250	3.6		
02/27/19	IW-10A	14:08	14:40	AW		70	2.2		
02/27/19	IW-10A			DHC	3.3X	0.5			
02/27/19	IW-3C	14:42	15:20	AW		80	2.1		
02/27/19	IW-3C			DHC	3.3X	0.5			
02/27/19	IW-3C	15:20	17:10	EVO	10%	250	2.3		
02/27/19	IW-12B	14:48	15:23	AW		70	2.0		
02/27/19	IW-12B			DHC	3.3X	0.5			
02/27/19	IW-12B	15:23	17:10	EVO	10%	250	2.3		
02/27/19	IW-21A	14:55	15:32	AW		70	1.9		
02/27/19	IW-21A			DHC	3.3X	0.5			
02/27/19	IW-21A	15:32	16:14	EVO	10%	125	3.0		
02/27/19	IW-2B	15:22	15:58	AW		70	1.9		
02/27/19	IW-2B			DHC	3.3X	0.5			
02/27/19	IW-2B	15:58	17:00	EVO	10%	50	0.8		
02/27/19	IW-4C	15:58	16:22	AW		80	3.3		
02/27/19	IW-4C			DHC	3.3X	0.5			
02/27/19	IW-4C	16:22	17:40	EVO	10%	250	3.2		
02/27/19	IW-7A	15:37	16:12	AW		70	2.0		
02/27/19	IW-7A			DHC	3.3X	0.5			
02/27/19	IW-7A	16:12	17:23	EVO	10%	250	3.5		
02/27/19	IW-33A	15:48	16:22	AW		70	2.1		
02/27/19	IW-33A			DHC	3.3X	0.5			

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Former American Linen Suppy
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/27/19	IW-33A	16:22	17:00	EVO	10%	100	2.6		
02/27/19	IW-4A	16:34	17:08	AW		70	2.1		
02/27/19	IW-4A			DHC	3.3X	0.5			
02/28/19	IW-4A	7:30	8:19	EVO	10%	175	3.6		
02/28/19	IW-33A	7:30	8:11	EVO	10%	150	3.7		
02/28/19	IW-2B	7:41	9:01	EVO	10%	200	2.5		
02/28/19	IW-17A	7:41	8:07	EVO	10%	75	2.9		
02/28/19	IW-24B	7:41	8:03	AW		70	3.2		
02/28/19	IW-24B			DHC	3.3X	0.5			
02/28/19	IW-24B	8:03	9:15	EVO	10%	250	3.5		
02/28/19	IW-6B	7:51	8:10	AW		70	3.7		
02/28/19	IW-6B			DHC	3.3X	0.5			
02/28/19	IW-6B	8:10	9:23	EVO	10%	250	3.4		
02/28/19	IW-30B	8:10	9:01	EVO	10%	100	2.0		
02/28/19	IW-32B	8:15	8:33	AW		70	3.9		
02/28/19	IW-32B			DHC	3.3X	0.5			
02/28/19	IW-32B	8:33	9:47	EVO	10%	250	3.4		
02/28/19	IW-3A	8:05	8:35	AW		70	2.3		
02/28/19	IW-3A			DHC	1X	1.5			
02/28/19	IW-3A	8:35	10:05	EVO	10%	325	3.6		
02/28/19	IW-31A	8:56	9:20	AW		70	2.9		
02/28/19	IW-31A			DHC	1X	1.5			
02/28/19	IW-31A	9:20	9:35	EVO	10%	25	1.7		
02/28/19	IW-2A	9:03	9:29	AW		70	2.7		
02/28/19	IW-2A			DHC	1X	1.5			
02/28/19	IW-2A	9:29	10:51	EVO	10%	250	3.0		
02/28/19	IW-14A	9:05	9:35	AW		70	2.3		
02/28/19	IW-14A			DHC	1X	1.5			
02/28/19	IW-14A	9:35	10:49	EVO	10%	250	3.4		
02/28/19	IW-44B	9:35	14:28	EVO	10%	500	1.7		
02/28/19	IW-20B	9:29	10:01	AW		70	2.2		
02/28/19	IW-20B			DHC	1X	1.5			
02/28/19	IW-20B	10:01	11:26	EVO	10%	250	2.9		

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Bioremediation Event
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Former American Linen Suppy
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/28/19	IW-21C	9:50	10:24	AW		80	2.4		
02/28/19	IW-21C			DHC	1X	1.5			
02/28/19	IW-21C	10:24	13:15	EVO	10%	250	1.5		
02/28/19	IW-23C	10:05	10:49	EVO	10%	150	3.4		
02/28/19	IW-12C	10:49	11:14	AW		80	3.2		
02/28/19	IW-12C			DHC	1X	1.5			
02/28/19	IW-15A	10:42	11:05	AW		70	3.0		
02/28/19	IW-15A			DHC	1X	1.5			
02/28/19	IW-15A	11:05	12:40	EVO	10%	250	2.6		
02/28/19	IW-5B	10:50	11:15	AW		70	2.8		
02/28/19	IW-5B			DHC	1X	1.5			
02/28/19	IW-5B	11:15	12:24	EVO	10%	250	3.6		
02/28/19	IW-52A	11:00	11:28	AW		70	2.5		
02/28/19	IW-52A			DHC	1X	1.5			
02/28/19	IW-52A	11:28	12:15	EVO	10%	50	1.1		
02/28/19	IW-16A	11:07	11:39	AW		70	2.2		
02/28/19	IW-16A			DHC	1X	1.5			
02/28/19	IW-16A	11:39	12:09	EVO	10%	100	3.3		
02/28/19	IW-56B	12:00	13:00	AW		70	1.2		
02/28/19	IW-56B			DHC	1X	1.5			
02/28/19	IW-13B	12:05	12:28	AW		70	3.0		
02/28/19	IW-13B			DHC	1X	1.5			
02/28/19	IW-13B	12:28	13:39	EVO	10%	250	3.5		
02/28/19	IW-2C	12:10	12:35	AW		80	3.2		
02/28/19	IW-2C			DHC	1X	1.5			
02/28/19	IW-2C	12:35	13:55	EVO	10%	250	3.1		
02/28/19	IW-8A	12:27	12:57	AW		70	2.3		
02/28/19	IW-8A			DHC	1X	1.5			
02/28/19	IW-8A	12:57	14:15	EVO	10%	250	3.2		
02/28/19	IW-29B	13:00	14:33	EVO	10%	250	2.7		
02/28/19	IW-44B	13:20	14:27	EVO	10%	125	1.9		
02/28/19	IW-21B	13:47	14:15	AW		70	2.5		
02/28/19	IW-21B			DHC	1X	1.5			

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Bioremediation Event
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Former American Linen Suppy
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/28/19	IW-14C	14:07	14:34	AW		80	3.0		
02/28/19	IW-14C			DHC	1X	1.5			
02/28/19	IW-56A	14:40	15:36	AW		70	1.3		
02/28/19	IW-56A			DHC	1X	1.5			
02/28/19	IW-41B	14:15	14:54	AW		70	1.8		
02/28/19	IW-41B			DHC	1X	1.5			
02/28/19	IW-8C	14:27	15:45	AW		80	1.0		
02/28/19	IW-8C			DHC	1X	1.5			
02/28/19	IW-8D	14:45	15:17	AW		100	3.1		
02/28/19	IW-8D			DHC	1X	1.5			
02/28/19	IW-7D	14:59	15:25	AW		70	2.7		
02/28/19	IW-7D			DHC	1X	1.5			
03/01/19	IW-9D	7:35	8:45	AW		100	1.4		
03/01/19	IW-9D			DHC	1X	1.5			
03/01/19	IW-10D	7:35	8:22	AW		100	2.1		
03/01/19	IW-10D			DHC	1X	1.5			
03/01/19	IW-25A	7:35	8:19	AW		70	1.6		
03/01/19	IW-25A			DHC	1X	1.5			
03/01/19	IW-26A	7:35	8:10	AW		70	2.0		
03/01/19	IW-26A			DHC	1X	1.5			
03/01/19	IW-14D	8:01	9:15	AW		100	1.4		
03/01/19	IW-14D			DHC	1X	1.5			
03/01/19	IW-20A	8:11	8:50	AW		70	1.8		
03/01/19	IW-20A			DHC	1X	1.5			
03/01/19	IW-13D	8:19	9:01	AW		100	2.4		
03/01/19	IW-13D			DHC	1X	1.5			
03/01/19	IW-45A	8:30	9:03	AW		70	2.1		
03/01/19	IW-45A			DHC	1X	1.5			
03/01/19	IW-5C	8:43	9:30	AW		80	1.7		
03/01/19	IW-5C			DHC	1X	1.5			
03/01/19	IW-35A	8:45	9:25	AW		70	1.8		
03/01/19	IW-35A			DHC	1X	1.5			
03/01/19	IW-11D	9:02	9:42	AW		100	2.5		

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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/01/19	IW-11D			DHC	1X	1.5			
03/01/19	IW-9B	9:17	10:07	AW		70	1.4		
03/01/19	IW-9B			DHC	1X	1.5			
03/01/19	IW-38B	11:05	11:45	EVO	20%	50	1.3		
03/01/19	IW-47B	11:10	12:10	EVO	20%	125	2.1		
03/01/19	IW-48B	11:15	12:22	EVO	20%	75	1.1		
03/01/19	IW-49B	11:32	12:03	EVO	20%	50	1.6		
03/01/19	IW-10C	11:45	12:17	EVO	20%	25	0.8		
03/01/19	IW-50B	12:05	13:09	EVO	20%	100	1.6		
03/01/19	IW-12C	12:04	12:23	EVO	20%	25	1.3		
03/01/19	IW-28C	12:27	15:12	EVO	20%	175	1.1		
03/01/19	IW-17C	12:20	12:39	EVO	20%	50	2.6		
03/01/19	IW-18C	12:23	12:39	EVO	20%	25	1.6		
03/01/19	IW-5D	12:40	13:45	EVO	20%	100	1.5		
03/01/19	IW-16A	12:52	13:55	EVO	20%	25	0.4		
03/01/19	IW-48A	13:11	13:20	EVO	20%	0	0.0		
03/01/19	IW-54A	13:25	14:48	EVO	20%	125	1.5		
03/01/19	IW-32A	13:49	14:10	EVO	20%	25	1.2		
03/01/19	IW-15B	13:55	14:02	EVO	20%	0	0.0		
03/01/19	IW-40A	14:04	15:40	EVO	20%	225	2.3		
03/01/19	IW-55A	14:10	14:16	EVO	20%	0	0.0		
03/01/19	IW-36A	14:16	14:19	EVO	20%	0	0.0		
03/01/19	IW-52A	14:23	14:45	EVO	20%	25	1.1		
03/01/19	IW-58A	15:05	15:32	EVO	20%	25	0.9		
03/01/19	IW-50A	15:12	15:39	EVO	20%	25	0.9		
03/01/19	IW-48B	15:40	15:42	EVO	20%	0	0.0		
03/02/19	IW-57A	9:10	9:18	EVO	20%	10	1.2	10	surfaced 2 feet north
03/02/19	IW-41A	9:10	9:35	EVO	20%	50	2.0	15	
03/02/19	IW-24C	9:10	10:19	EVO	20%	30	0.4	100	100 psi after 30 gallons
03/02/19	IW-19C	9:10	9:30	EVO	20%	25	1.3	50	surfaced 9 feet southeast
03/02/19	IW-34B	9:10	9:33	EVO	20%	50	2.2	25	surfaced 5 feet southeast
03/02/19	IW-43A	9:10	9:42	EVO	20%	50	1.6	10	surfaced 10 feet northwest
03/02/19	IW-56A	9:26	11:15	EVO	20%	125	1.1	30	

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Former American Linen Suppy
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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/02/19	IW-35A	9:32	10:33	EVO	20%	50	0.8	18	
03/02/19	IW-34A	9:36	9:44	EVO	20%	10	1.3	14	surfaced 6 feet south
03/02/19	IW-45A	9:37	11:28	EVO	20%	150	1.4	20	
03/02/19	IW-47A	9:41	11:01	EVO	20%	50	0.6	24	
03/02/19	IW-37B	10:35	11:08	EVO	20%	50	1.5	26	surfaced 11 feet west
03/02/19	IW-3B	10:58	11:32	EVO	20%	50	1.5	10	surfaced 5 feet northeast
03/02/19	IW-8B	11:05	11:32	EVO	20%	50	1.9	6	
03/02/19	IW-13C	11:11	11:19	EVO	20%	5	0.6		surfaced 7 feet south
03/02/19	IW-16C	11:15	11:45	EVO	20%	40	1.3	34	surfaced 10 feet east
03/02/19	IW-31A	11:20	12:06	EVO	20%	50	1.1	10	
03/02/19	IW-9B	11:35	11:59	EVO	20%	50	2.1	4	
03/02/19	IW-15B	11:39	12:10	EVO	20%	50	1.6	8	
03/02/19	IW-56B	11:43	12:22	EVO	20%	50	1.3	30	
03/02/19	IW-39A	11:57	12:06	EVO	20%	10	1.1		surfaced 9 feet north
03/02/19	IW-17B	11:58	12:34	EVO	20%	50	1.4	12	
03/02/19	IW-38B	12:44	13:05	EVO	20%	20	1.0		surfaced 9 feet northwest
03/02/19	IW-17B	12:40	13:01	EVO	20%	45	2.1	10	surfaced 5 feet southwest
03/02/19	IW-56B	12:42	13:38	EVO	20%	100	1.8	38	
03/02/19	IW-10C	13:09	13:21	EVO	20%	10	0.8	20	surfaced 12 feet south
03/02/19	IW-38A	12:55	13:30	EVO	20%	25	0.7	24	surfaced 3 feet southwest
03/02/19	IW-47A	12:55	14:33	EVO	20%	150	1.5	24	
03/02/19	IW-18C	13:12	13:23	EVO	20%	25	2.3	32	surfaced 15 feet northwest
03/02/19	IW-33B	13:12	13:52	EVO	20%	100	2.5	14	
03/02/19	IW-35A	13:43	14:23	EVO	20%	75	1.9	24	surfaced 5 feet southeast
03/02/19	IW-40B	13:43	14:04	EVO	20%	20	1.0	60	surfaced 5 feet south
03/02/19	IW-42B	13:43	13:50	EVO	20%	5	0.7		surfaced 11 feet northeast
03/02/19	IW-45A	13:43	14:34	EVO	20%	100	2.0	30	
03/02/19	IW-38A	13:54	13:59	EVO	20%	5	1.0		surfaced 3 feet southwest
03/02/19	IW-26A	13:57	14:46	EVO	20%	125	2.6	0	
03/03/19	IW-29B	7:54	8:28	AW		50	1.5		
03/03/19	IW-29B			DHC	1X	1.5			
03/03/19	IW-18A	7:45	8:26	AW		50	1.2		
03/03/19	IW-18A			DHC	1X	1.5			

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Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/03/19	IW-11A	7:54	8:30	AW		50	1.4		
03/03/19	IW-11A			DHC	1X	1.5			
03/03/19	IW-37B	7:57	8:30	AW		50	1.5		surfaced 8 feet west
03/03/19	IW-37B			DHC	1X	1.5			
03/03/19	IW-47A	7:57	8:34	AW		50	1.4		
03/03/19	IW-47A			DHC	1X	1.5			
03/03/19	IW-15B	9:14	9:38	AW		50	2.1		
03/03/19	IW-15B			DHC	1X	1.5			
03/03/19	IW-56A	9:14	9:38	AW		50	2.1		
03/03/19	IW-56A			DHC	1X	1.5			
03/03/19	IW-48A	9:14	9:38	AW		50	2.1		
03/03/19	IW-48A			DHC	1X	1.5			
03/03/19	IW-44B	9:14	9:38	AW		50	2.1		
03/03/19	IW-44B			DHC	1X	1.5			
03/03/19	IW-19A	9:14	9:38	AW		50	2.1		
03/03/19	IW-19A			DHC	1X	1.5			
03/03/19	IW-17B	9:14	9:38	AW		50	2.1		
03/03/19	IW-17B			DHC	1X	1.5			
03/03/19	IW-45B	9:59	10:21	AW		50	2.3		
03/03/19	IW-45B			DHC	1X	1.5			
03/03/19	IW-21C	9:59	10:21	AW		50	2.3		
03/03/19	IW-21C			DHC	1X	1.5			
03/03/19	IW-53B	9:59	10:21	AW		50	2.3		
03/03/19	IW-53B			DHC	1X	1.5			
03/03/19	IW-44A	9:59	10:21	AW		50	2.3		
03/03/19	IW-44A			DHC	1X	1.5			
03/03/19	IW-23B	9:59	10:21	AW		50	2.3		
03/03/19	IW-23B			DHC	1X	1.5			
03/03/19	IW-8B	9:59	10:21	AW		50	2.3		
03/03/19	IW-8B			DHC	1X	1.5			
03/03/19	IW-16B	10:54	11:12	AW		50	2.8		
03/03/19	IW-16B			DHC	1X	1.5			
03/03/19	IW-28A	10:54	11:12	AW		50	2.8		

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/03/19	IW-28A			DHC	1X	1.5			
03/03/19	IW-7B	10:54	11:12	AW		50	2.8		
03/03/19	IW-7B			DHC	1X	1.5			
03/03/19	IW-43B	10:54	11:15	AW		50	2.4		
03/03/19	IW-43B			DHC	1X	1.5			
03/03/19	IW-51B	10:54	11:12	AW		50	2.8		
03/03/19	IW-51B			DHC	1X	1.5			
03/03/19	IW-55B	10:54	11:17	AW		50	2.2		
03/03/19	IW-55B			DHC	1X	1.5			
03/03/19	IW-2B	11:34	11:53	AW		50	2.6		
03/03/19	IW-2B			DHC	1X	1.5			
03/03/19	IW-42A	11:34	11:53	AW		50	2.6		
03/03/19	IW-42A			DHC	1X	1.5			
03/03/19	IW-27B	11:34	11:51	AW		50	2.9		
03/03/19	IW-27B			DHC	1X	1.5			
03/03/19	IW-41B	11:34	11:51	AW		50	2.9		
03/03/19	IW-41B			DHC	1X	1.5			
03/03/19	IW-7D	11:37	12:30	EVO	20%	175	3.3	12	
03/03/19	IW-25A	11:37	12:50	EVO	10%	250	3.4	8	
03/03/19	IW-2A	12:20	12:42	AW		50	2.3		
03/03/19	IW-2A			DHC	1X	1.5			
03/03/19	IW-22A	12:20	12:42	AW		50	2.3		
03/03/19	IW-22A			DHC	1X	1.5			
03/03/19	IW-47B	12:20	12:42	AW		50	2.3		
03/03/19	IW-47B			DHC	1X	1.5			
03/03/19	IW-8A	12:20	12:42	AW		50	2.3		
03/03/19	IW-8A			DHC	1X	1.5			
03/03/19	IW-21B	12:55	13:22	AW		50	1.9		
03/03/19	IW-21B			DHC	1X	1.5			
03/03/19	IW-14B	12:55	13:17	AW		50	2.3		
03/03/19	IW-14B			DHC	1X	1.5			
03/03/19	IW-19B	13:02	14:42	EVO	10%	250	2.5		
03/03/19	IW-56A	13:02	13:54	EVO	20%	175	3.4		

Table 8
Daily Injection Summary
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/03/19	IW-41B	13:02	13:54	EVO	20%	125	2.4		
03/03/19	IW-21B	13:15	13:54	EVO	20%	125	3.2		

Notes

small droplet emulsified vegetable oil = slow release carbon substrate comprised of 60% soybean oil, 5% sodium lactate, 5-15% emulsifiers/nutrients/buffer and water
sodium lactate = quick release carbon substrate comprised of 60% sodium lactate and water
calcium bicarbonate = long-term pH buffer
sodium bicarbonate = short-term pH buffer
sodium ascorbate = oxygen scavenger
KB1 Primer = oxygen scavenger
EVO/LAC = injection solution comprised of small droplet emulsified vegetable oil, sodium lactate, calcium bicarbonate, sodium bicarbonate and water
EVO = injection solution comprised of small droplet emulsified vegetable oil, calcium bicarbonate, sodium bicarbonate and water
AW = anoxic water; injection solution comprised of sodium ascorbate, KB1 primer and water
DHC = Dehalococcoides bacteria culture
1) for EVO/LAC and EVO, value in concentration column represents soybean oil concentration
2) for DHC, value in concentration column represents bacteria concentration in cells per liter; 1X equals $1x10^{7}$ DHC cells per liter; 3.3X = $3.3x10^{6}$ DHC cells per liter

Table 9
Injection Well Reagent Totals
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	10% EVO/LAC	10% EVO	20% EVO	Anoxic Water	1X DHC	3.3X DHC	Average Flow Rate	Maximum Pressure	Surfaced
IW-1A	250	750	0	70	0	0.5	2.5	8	
IW-2A	250	750	0	120	3	0	2.9	6	
IW-3A	500	825	0	70	1.5	0	3.1	10	
IW-4A	500	1050	0	70	0	0.5	3.0	4	
IW-5A	250	1325	0	70	0	0.5	2.9	10	
IW-6A	250	750	0	70	0	0.5	2.4	16	
IW-7A	500	500	0	70	0	0.5	2.9	10	
IW-8A	500	500	0	120	3	0	2.8	6	
IW-9A	500	975	0	70	0	0.5	2.9	6	
IW-10A	550	750	0	70	0	0.5	2.9	8	
IW-11A	500	1175	0	120	1.5	0.5	2.6	25	
IW-12A	250	825	0	70	0	0.5	2.1	16	
IW-13A	250	925	0	70	0	0.5	2.5	30	
IW-14A	250	750	0	70	1.5	0	3.0	10	
IW-15A	500	500	0	70	1.5	0	3.2	10	
IW-16A	500	250	25	70	1.5	0	2.3	10	x
IW-17A	500	800	0	70	0	0.5	2.8	10	
IW-18A	250	1000	0	120	1.5	0.5	2.3	12	
IW-19A	250	1000	0	120	1.5	0.5	2.8	18	
IW-20A	250	1000	0	70	1.5	0	2.8	20	
IW-21A	250	750	0	70	0	0.5	2.9	8	
IW-22A	500	500	0	120	1.5	0.5	2.6	15	
IW-23A	250	750	0	100	0	0.5	2.1	10	
IW-24A	250	750	0	70	0	0.5	2.8	10	
IW-25A	250	750	0	70	1.5	0	2.8	20	
IW-26A	250	500	125	70	1.5	0	2.3	16	
IW-27A	250	750	0	70	0	0.5	2.3	6	
IW-28A	500	500	0	120	1.5	0.5	3.1	10	
IW-29A	475	500	0	70	0	0.5	2.9	6	
IW-30A	500	500	0	70	0	0.5	3.0	10	
IW-31A	0	125	50	70	1.5	0	2.2	10	x
IW-32A	30	0	25	0	0	0	2.5	8	x
IW-33A	500	750	0	70	0	0.5	2.9	8	
IW-34A	40	0	10	70	0	0.5	1.6	30	x
IW-35A	150	350	125	70	1.5	0	2.1	35	x
IW-36A	0	0	0	0	0	0	0.0	0	x
IW-37A	10	0	0	0	0	0	2.5	10	x
IW-38A	30	0	30	0	0	0	1.2	24	x
IW-39A	50	0	10	0	0	0	2.1	28	x
IW-40A	10	0	225	0	0	0	1.9	0	x
IW-41A	50	0	50	0	0	0	1.8	20	x
IW-42A	250	1150	0	120	1.5	0.5	3.0	60	
IW-43A	25	0	50	0	0	0	1.8	16	x
IW-44A	250	1000	0	120	1.5	0.5	2.9	15	
IW-45A	300	500	250	70	1.5	0	2.2	46	
IW-46A	250	1000	0	70	0	0.5	2.4	30	x

Table 9
Injection Well Reagent Totals
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	10% EVO/LAC	10% EVO	20% EVO	Anoxic Water	1X DHC	3.3X DHC	Average Flow Rate	Maximum Pressure	Surfaced
IW-47A	70	0	200	50	1.5	0	1.6	24	x
IW-48A	275	10	0	50	1.5	0	1.4	20	x
IW-50A	60	0	25	0	0	0	1.6	20	x
IW-51A	50	0	0	0	0	0	1.7	20	x
IW-52A	50	150	25	70	1.5	0	2.1	5	x
IW-53A	500	1000	0	70	0	0.5	2.7	16	
IW-54A	100	0	125	0	0	0	2.1	6	x
IW-55A	10	0	0	0	0	0	1.3	6	x
IW-56A	250	500	300	120	3	0	2.3	66	
IW-57A	40	0	10	0	0	0	2.3	30	x
IW-58A	250	750	25	70	0	0.5	2.8	10	
IW-1B	250	750	0	70	0	0.5	3.0	6	
IW-2B	550	450	0	120	1.5	0.5	2.3	10	
IW-3B	250	550	50	70	0	0.5	2.8	10	x
IW-4B	250	750	0	70	0	0.5	2.9	12	
IW-5B	250	750	0	70	1.5	0	3.0	18	
IW-6B	250	750	0	70	0	0.5	3.0	20	
IW-7B	550	500	0	120	1.5	0.5	2.7	20	
IW-8B	250	60	50	50	1.5	0	2.3	8	x
IW-9B	310	125	50	70	1.5	0	2.7	15	x
IW-10B	500	500	0	70	0	0.5	2.6	20	
IW-11B	500	500	0	70	0	0.5	2.3	20	
IW-12B	500	500	0	70	0	0.5	2.7	10	
IW-13B	500	500	0	70	1.5	0	3.1	10	
IW-14B	500	500	0	120	1.5	0.5	2.9	6	
IW-15B	250	150	50	50	1.5	0	2.0	12	x
IW-16B	250	1000	0	120	1.5	0.5	2.7	6	
IW-17B	250	550	95	120	1.5	0.5	2.3	12	x
IW-18B	250	750	0	70	0	0.5	3.0	18	
IW-19B	250	750	0	70	0	0.5	2.4	6	
IW-20B	750	250	0	70	1.5	0	2.9	30	
IW-21B	500	250	125	120	3	0	2.9	12	
IW-22B	250	1190	0	70	0	0.5	3.0	14	
IW-23B	250	750	0	120	1.5	0.5	2.6	40	
IW-24B	500	500	0	70	0	0.5	3.4	20	
IW-25B	250	1025	0	70	0	0.5	2.7	16	
IW-26B	500	500	0	70	0	0.5	3.1	20	
IW-27B	500	800	0	120	1.5	0.5	3.1	20	
IW-28B	0	0	0	0	0	0	0.0	0	x
IW-29B	250	1000	0	120	1.5	0.5	2.8	15	
IW-30B	250	750	0	70	0	0.5	3.1	16	
IW-31B	500	500	0	70	0	0.5	3.0	20	
IW-32B	250	750	0	70	0	0.5	3.0	16	
IW-33B	550	250	100	70	0	0.5	2.1	14	
IW-34B	60	0	50	0	0	0	2.5	25	x
IW-35B	20	0	0	0	0	0	2.5	10	x

Table 9
Injection Well Reagent Totals
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	10% EVO/LAC	10% EVO	20% EVO	Anoxic Water	1X DHC	3.3X DHC	Average Flow Rate	Maximum Pressure	Surfaced
IW-36B	280	125	0	0	0	0	2.5	40	x
IW-37B	20	0	50	50	1.5	0	1.7	26	x
IW-38B	180	50	70	0	0	0	1.9	35	x
IW-39B	550	500	0	70	0	0.5	2.4	16	
IW-40B	0	25	20	0	0	0	1.0	60	x
IW-41B	250	750	125	120	3	0	2.6	45	
IW-42B	50	0	5	0	0	0	0.7	20	x
IW-43B	330	875	0	120	1.5	0.5	2.6	45	
IW-44B	250	1375	0	120	1.5	0.5	2.5	38	
IW-45B	230	750	0	120	1.5	0.5	2.5	30	
IW-46B	250	750	0	70	0	0.5	2.3	60	
IW-47B	200	175	125	50	1.5	0	2.4	46	x
IW-48B	100	150	75	0	0	0	1.5	14	x
IW-49B	125	125	50	70	0	0.5	2.1	16	x
IW-50B	75	100	100	0	0	0	2.1	15	x
IW-51B	250	1150	0	120	1.5	0.5	2.6	20	
IW-52B	250	750	0	70	0	0.5	2.4	18	
IW-53B	500	500	0	120	1.5	0.5	2.5	16	
IW-54B	0	0	0	0	0	0	0.0	100	
IW-55B	250	750	0	120	1.5	0.5	2.7	55	
IW-56B	200	450	150	70	1.5	0	1.9	86	
IW-1C	250	750	0	80	0	0.5	2.6	12	
IW-2C	250	750	0	80	1.5	0	2.9	12	
IW-3C	500	500	0	80	0	0.5	2.6	15	
IW-4C	500	500	0	80	0	0.5	3.1	20	
IW-5C	500	250	0	80	1.5	0	2.3	26	
IW-6C	250	750	0	80	0	0.5	3.0	18	
IW-7C	250	750	0	80	0	0.5	2.9	20	
IW-8C	250	500	0	80	1.5	0	2.1	20	
IW-9C	250	750	0	80	0	0.5	2.9	22	
IW-10C	60	0	35	0	0	0	1.3	22	x
IW-11C	625	775	0	80	0	0.5	2.6	75	
IW-12C	250	275	25	80	1.5	0	2.6	60	x
IW-13C	50	0	5	0	0	0	1.4	15	x
IW-14C	250	550	0	80	1.5	0	2.8	40	
IW-15C	250	750	0	80	0	0.5	2.5	75	
IW-16C	25	0	40	0	0	0	1.1	34	x
IW-17C	125	50	50	0	0	0	2.5	36	x
IW-18C	250	75	50	0	0	0	1.8	40	x
IW-19C	20	0	25	0	0	0	1.1	50	x
IW-20C	250	1250	0	80	0	0.5	2.5	50	
IW-21C	500	350	0	130	3	0	2.3	55	x
IW-22C	0	0	0	0	0	0	0.0	100	
IW-23C	250	1000	0	80	0	0.5	3.0	35	
IW-24C	25	0	30	0	0	0	0.7	100	
IW-25C	250	1025	0	70	0	0.5	3.1	25	x

Table 9
Injection Well Reagent Totals
Bioremediation Event
Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	10% EVO/LAC	10% EVO	20% EVO	Anoxic Water	1X DHC	3.3X DHC	Average Flow Rate	Maximum Pressure	Surfaced
IW-26C	250	100	0	0	0	0	2.0	90	x
IW-27C	250	750	0	80	0	0.5	2.4	80	
IW-28C	150	375	175	80	0	0.5	1.5	92	
IW-1D	250	750	0	100	0	0.5	3.1	22	
IW-2D	250	750	0	100	0	0.5	3.0	50	
IW-3D	250	750	0	100	0	0.5	3.2	20	
IW-4D	250	500	0	100	0	0.5	2.0	45	
IW-5D	145	0	100	0	0	0	2.3	22	x
IW-6D	400	625	0	100	0	0.5	2.3	45	
IW-7D	500	0	175	70	1.5	0	2.8	12	
IW-8D	250	750	0	100	1.5	0	3.1	4	
IW-9D	250	540	0	100	1.5	0	1.8	100	
IW-10D	250	500	0	100	1.5	0	2.5	44	
IW-11D	250	500	0	100	1.5	0	2.6	16	
IW-12D	350	700	0	100	0	0.5	1.6	82	
IW-13D	250	565	0	100	1.5	0	2.5	40	
IW-14D	250	500	0	100	1.5	0	2.3	70	x
IW-15D	250	700	0	100	0	0.5	2.0	70	
IW-16D	50	0	0	0	0	0	1.4	100	
	42030	**79140**	**3735**	**10440**	**100.5**	**41.5**	**2.4**	**100**	**50**

Notes

small droplet emulsified vegetable oil = slow release carbon substrate comprised of 60% soybean oil, 5% sodium lactate, 5-15% emulsifiers/nutrients/buffer and water

sodium lactate = quick release carbon substrate comprised of 60% sodium lactate and water

calcium bicarbonate = long-term pH buffer

sodium bicarbonate = short-term pH buffer

sodium ascorbate = oxygen scavenger

KB1 Primer = oxygen scavenger

EVO/LAC = injection solution comprised of small droplet emulsified vegetable oil, sodium lactate, calcium bicarbonate, sodium bicarbonate and water

EVO = injection solution comprised of small droplet emulsified vegetable oil, calcium bicarbonate, sodium bicarbonate and water

AW = anoxic water; injection solution comprised of sodium ascorbate, KB1 primer and water

DHC = Dehalococcoides bacteria culture

1) for EVO/LAC and EVO columns, percentage represents soybean oil concentration

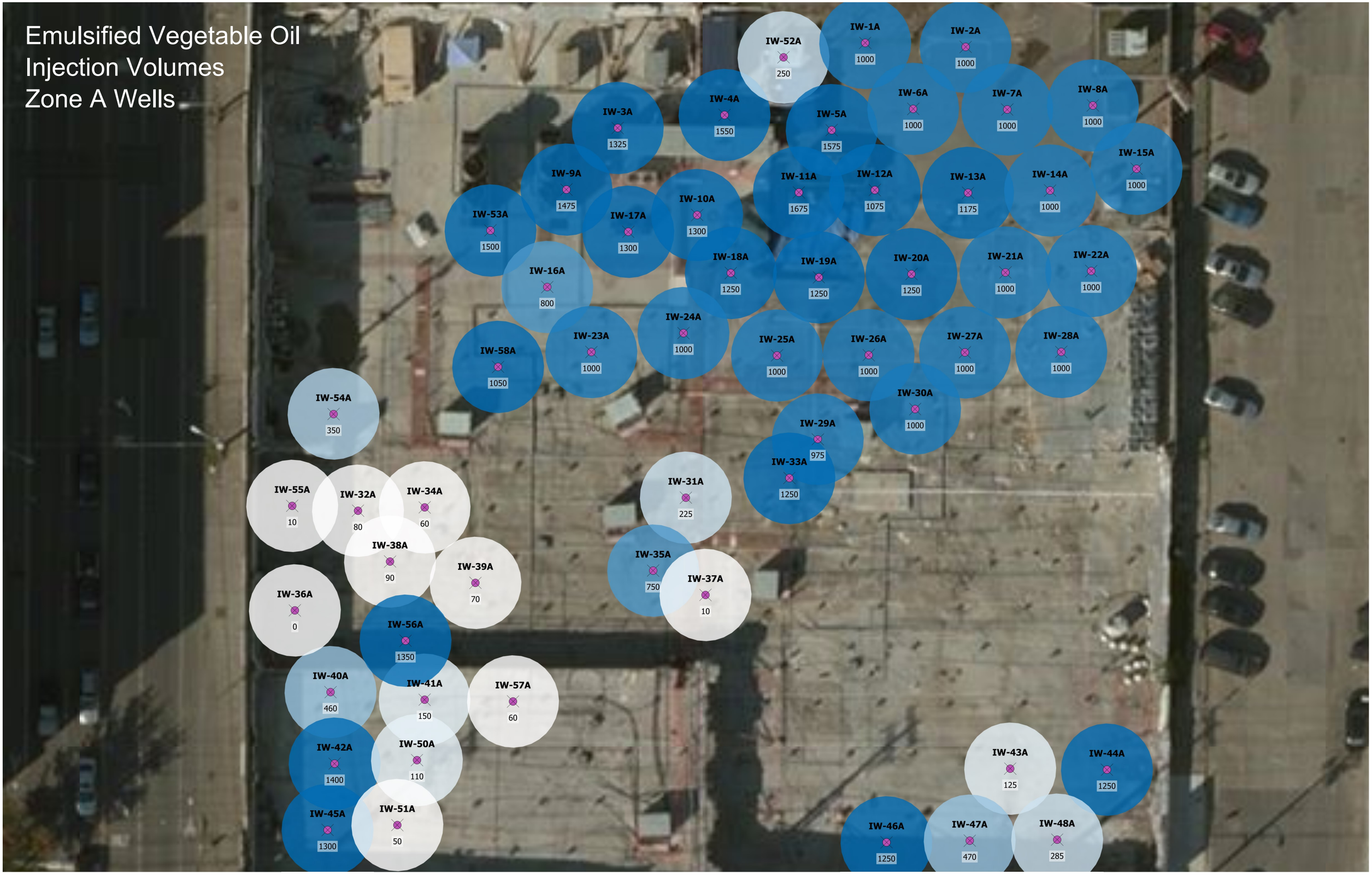
2) for DHC colums, 1X and 3.3X represent bacteria concentration in cells per liter; 1X equals $1x10^7$ DHC cells per liter; 3.3X = $3.3x10^6$ DHC cells per liter

ATTACHMENT A

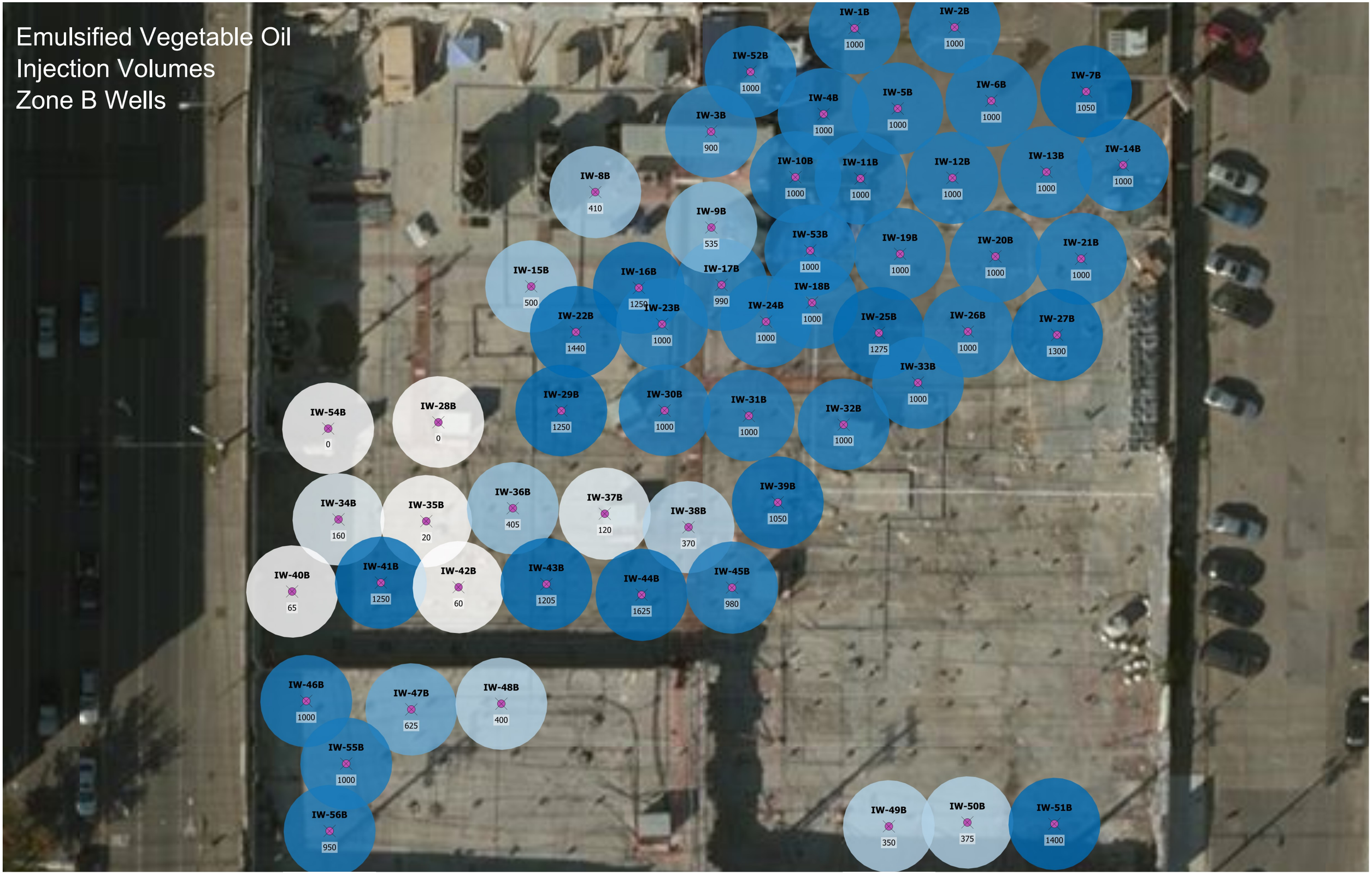
EMULSIFIED VEGETABLE OIL INJECTION VOLUMES

BY TREATMENT ZONE FIGURES

Emulsified Vegetable Oil Injection Volumes Zone A Wells



Emulsified Vegetable Oil Injection Volumes Zone B Wells



Emulsified Vegetable Oil Injection Volumes Zone C Wells

Emulsified Vegetable Oil Injection Volumes Zone D Wells

PERIMETER WELLS IN-SITU BIOREMEDIATION TREATMENT PROGRAM REPORT

FORMER AMERICAN LINEN FACILITY
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON

APRIL 2, 2021

PREPARED FOR

PES ENVIRONMENTAL, INC.
1215 FOURTH AVENUE, SUITE 1350
SEATTLE, WA

ISOTEC PROJECT NO. 901312

In-Situ Oxidative Technologies, Inc.
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Lawrenceville, New Jersey 08648
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SBA Certified Small Business

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ATTACHMENT E ..... 2021 DAILY FIELD REPORTS

1.0 INTRODUCTION, SITE SETTING, AND TREATMENT PROGRAM OBJECTIVES

In-Situ Oxidative Technologies, Inc. (ISOTEC) was retained by PES to perform an in-situ bioremediation treatment program via enhanced reductive dichlorination (ERD) at the Former American Linen Facility site in Seattle, WA. The treatment program targeted perimeter injection wells installed on the eastern site boundary (along 8th Avenue North) and southern site boundary (along Roy Street). As a result of former manufacturing operations, site soils and groundwater are impacted by chlorinated volatile organic compounds (CVOCs), primarily tetrachloroethene (PCE)

ISOTEC performed in-situ remediation activities on-property during 2018 and 2019 prior to the start of building construction. Three rounds of ISCO were performed between September 2018 and January 2019. Modified Fenton's Reagent, consisting of hydrogen peroxide with stabilizers and proprietary chelated iron complex catalysts to catalyze the hydrogen peroxide, was the implemented ISCO technology. ERD with bioaugmentation of anaerobic dechlorinating bacteria was conducted in February 2019. Emulsified vegetable oil (EVO) was the primary carbon substrate electron donor.

PES installed 94 injection screens installed at 47 injection points to be used for the perimeter well ERD program. The perimeter well ERD program targeted 4 vertical treatment intervals (Zones A, B, C, D), which are consistent with the 4 vertical treatment zones identified on the property. Each injection location has a pair of nested wells constructed within a single borehole. Perimeter injection screens are 20 feet (ft) long for Zone A and 15 ft long for Zones B, C, and D. For planning purposes, ISOTEC divided the perimeter injection wells into 4 treatment subareas (Subarea 1 and 2 along 8th Avenue North with Subarea 3 and 4 along Roy Street) as shown on **Figure 1**.

The EVO amendment utilized for the perimeter well injections was SRS-SD®, which is the same EVO amendment used for Source Area EVO injection on the property. SRS-SD® is an EVO with small oil droplets (median size 0.5 micron) commonly used for injection into sites with silts and other low permeability soils. SRS-SD® is shipped as 60% soybean oil, 5% sodium lactate, 5-15% emulsifiers, nutrients, and buffer. The objective of ERD treatment into perimeter injection wells will be to minimize off-site migration of chlorinated volatile organic compounds (CVOCs).

2.0 ERD PERIMETER TREATMENT SUMMARY

The ERD Perimeter Treatment Program was completed over 2 mobilization events in September-October 2020 and February-March 2021. A total of 94 injection locations were utilized to distribute reagents to the subsurface (see **Figure 1**). ISOTEC installed at each location an injection manifold fitted with inlet, outlet and vent ports, and a pressure gauge. Reinforced hoses were connected to each injection manifold via double-valve assembly. As many as six (6) injection locations were utilized simultaneously to distribute reagent throughout the treatment area. Typically, ISOTEC injected approximately 90% of the proposed EVO volume into a given well, followed by a 30-gallon flush anoxic water, DHC culture, 50-70 gallons of additional anoxic water and lastly the remaining 10% of the proposed EVO volume. A 10-to-15-minute flush of chase water was injected at each completed well. Proposed injection volumes for the perimeter injection well program are provided as **Table 1** below.

Table 1: Perimeter ERD Treatment Program Design

Zone	Treatment Interval (ft bgs)	# Injection Wells	EVO Concentration (%)	EVO Volume (gal)	Anoxic Water Volume (gal)	DHC Volume[1] (liters)
A	30-50	23	9.70%	1,450	90-100	0.2
B1	50-65	18	5.75%	1,050	90-100	0.15
B2	50-65	6	9.70%	1,050	90-100	0.15
C	65-80	23	5.75%	1,050	90-100	0.15
D	80-95	24	9.70%	1,050	90-100	0.15
Totals:		**94**		**107,900**	**8,460-9,400**	**15.25**

1) DHC volume is presented as 10x concentrated bioaugmentation solution

ISOTEC spread out the active injection locations to the extent practicable both across the perimeter injection wells spatially and throughout the four vertical treatment zones (Zones A, B, C and D) to minimize pore volume saturation and localized mounding which can result in elevated injection pressures and/or daylighting of injection solutions.

Injection activities took place during the construction of 700 Dexter Ave. ISOTEC coordinated daily with the Turner Construction foreman to make sure simultaneous activities could be performed in a safe manner. Due to limited space at the site, simultaneous activities were often performed in close proximity. At times access was restricted in certain areas due to overhead activities. Hose ramps and cones were used to protect injection lines, water lines and hose connections from damage. The treatment program was completed without injury or damage to equipment or property.

A total of eight (8) injection locations were installed in the westbound lane of Roy Street. The westbound lane of Roy Street was closed to traffic from 9:00 am to 3:00 pm during active injection. Injections within the roadway were completed over seven (7) injection days, five (5) days during the 2020 mobilization and two (2) days during the 2021 mobilization.

A discussion of field activities for each mobilization is provided below.

2.1 2020 Mobilization

ISOTEC mobilized to the site on September 21, 2020 and completed site specific health and safety training. Deliveries of equipment and reagent components were accepted on September 21. Staging, reagent preparation and injection well fitting took place on September 22, 2020. Injection activities began on Wednesday, September 23. Seepage of white colored liquids was observed on subsurface

levels P2 and P3 in the building parking structure, with the first observation on September 29, 2020. Injections were paused on the afternoon of September 30 to assess injection observations and develop a plan to proceed with injection in the perimeter wells and to reduce or eliminate seepage. ISOTEC and PES developed a modified program with mitigation measures and adaptations for injection, including the following:

- setting a maximum injection pressure of 70 pounds per square inch (psi)
- reducing flow rates to <2.0 gallons per minute (gpm) at all wells
- reducing flow rates to <1.5 gpm for locations with 0 psi readings (concern of preferential subsurface pathways)
- limiting injection volume of 250 gallons per location per day
- deferring further injections into Zone A and Zone B to a later mobilization event.

Injection activities resumed on October 6, 2020. For the remainder of the 2020 injection, ISOTEC performed monitoring of floors P2 and P3 prior to starting daily injections, every 2 to 3 hours during active injections and after completing daily injections. Minimal additional seepage was observed upon restarting injections following the injection adaptions above. Any liquid present was collected and containerized in a 250-gallon tote.

During the 2020 injection event ISOTEC injected a total of 64,140 gallons (33,545 gallons of ~9.7% EVO solution, 25,705 gallons of ~5.75% EVO, 4,890 gallons of anoxic water and 7.9 liters of DHC bacteria 10x concentrated culture) over twenty (20) field days during the period of September 23, 2020 to October 18, 2020. Injection pressures ranged from 0-85 psi during active injections. If pressures were observed of ~70 psi, flow rates were reduced as needed to keep the pressure from rising above 70 psi. If a flow rate of >0.5 gallons per minute (gpm) was not possible at pressures <70 psi, injections were stopped for the day at that location. Average injection flow rate was 1.46 gpm during the entire 2020 mobilization. A comparison of average pressures and flow rates by injection zone indicates little difference between Zone B, C and D, with average pressures ranging from 40-45 psi and flow rates ranging from 1.20-1.39 gpm. Average flow rate and injection pressure for Zone A was 1.85 gpm and 31 psi, respectively. Injection volume totals are provided as **Attachment A.** An injection summary table and daily field reports have been provided as **Attachment B** and **Attachment C**, respectively. A visual map of 2020 injection progress is provided as **Figure 2** (attachment)**.**

Table 2: Fall 2020 Perimeter ERD Treatment Program Overview

Zone	Treatment Interval (ft bgs)	# Wells Injected Into	# Wells Completed	Total EVO Volume Injected (gal)	Average Injection Flow Rate (gpm)	# Wells Bioaugmented
A	30-50	10	4	11,350	1.85	6
B	50-65	14	9	11,195	1.39	10
C	65-80	20	14	17,080	1.20	15
D	80-95	20	17	19,625	1.22	18
Totals:		**64**	**44**	**59,250**	**1.42**	**49**

Demobilization activities included removal of all ISOTEC equipment and personnel. Remaining reagent components were stored on site on parking level P3.

2.2 2021 Mobilization

ISOTEC mobilized to the site on February 8, 2021 to complete the Perimeter ERD treatment program activities. Inclement weather across the United States delayed delivery of ISOTEC equipment for approximately nine (9) days. ISOTEC made attempts during this time to ship equipment from another office and to purchase new items locally but were unable to procure certain specialty equipment needed to perform injections. A snowstorm covered the site in approximately 12" of snow during the period of February 12-13. ISOTEC spent several hours on February 13 clearing snow off equipment, reagent totes and around the general staging area. Turner cleared snow from 8th Avenue on February 15, temporarily covering four well locations that needed to be dug out later. Equipment arrived on site February 16. ISOTEC set up equipment, prepared reagents and resumed injection activities into the perimeter wells.

To coordinate around on-site construction activities, ISOTEC injections were performed "off-shift," with ISOTEC activities generally between 10:00 AM and 10:30 PM on Monday to Friday. ISOTEC procured light towers to illuminate the staging and injection areas. Weekend injection activities were performed during normal day time hours. In addition, ISOTEC worked daytime hours on days when Roy Street was closed off in order to inject into wells in the roadway.

During the 2021 injection program ISOTEC injected a total of 55,379 gallons (31,432 gallons of ~9.7% EVO solution, 17,930 gallons of ~5.75% EVO, 4,217 gallons of anoxic water and 7.75 liters of DHC bacteria 10x concentrated culture) over fifteen (15) field days during the period of February 16 to March 2, 2021. Injection pressures ranged from 0-90 psi during active injections. Injections were stopped for the day if a flow rate of >0.5 gpm could not be achieved at injection pressures <70 psi.

All wells received the proposed ERD quantities, with the exception of 3 locations (IW-D01, IW-D18 and IW-D19) that did not receive the full proposed volume.

- IW-D01 received 140 gallons of EVO during 2020 injections, or approximately 12% of the target volume. The location was damaged between mobilization events and could not be repaired. ISOTEC installed an inflatable packer to attempt injection but pressures immediately rose above 100 psi. The well was gauged, and an obstruction was found at approximately 59 ft below ground surface (bgs). The location was abandoned, and the remaining volume was distributed into nearby injection wells within the same treatment zone.

- IW-D18 and IW-D19 did not accept any material during the 2020 mobilization event due to the well being damaged during the installation process. PES installed replacement injection wells at locations IW-D18 and IW-D19 between mobilization events. These new locations were able to accept some reagent at high injection pressures but were not finished due to time constraints. IW-D18 received 870 gallons of EVO, or approximately 83% of the proposed volume, and bioaugmentation amendments at an average flow rate of 0.8 gpm. IW-D19 received 752 gallons of EVO, or approximately 66% of the proposed volume, and no bioaugmentation amendments at an average flow rate of 0.9 gpm. Injection pressures were observed up to 90 psi at both locations but were generally in the 60-70 psi range during injections.

Reagent volumes for the 3 incomplete locations was distributed into adjacent locations within the same treatment zone. Injection volume totals are provided as **Attachment A.** An injection summary table for the 2021 mobilization event has been provided as **Attachment D**. The daily field reports are presented as **Attachment E.** A visual map of 2021 injection progress is presented as **Figure 3**.

Table 3: Winter 2021 Perimeter ERD Treatment Program Overview

Zone	Treatment Interval (ft bgs)	# Wells Injected Into	# Wells Completed	Total EVO Volume Injected (gal)	Average Injection Flow Rate (gpm)	# Wells Bioaugmented
A	30-50	19	19	22,150	1.59	17
B	50-65	15	15	14,155	1.52	15
C	65-80	9	9	7,180	1.59	8
D	80-95	9	4	5,877	1.39	6
Totals:		**52**	**47**	**49,362**	**1.54**	**46**

During the 2020 mobilization attempts were made to inject into injection location IW-C13 with surfacing occurring each attempt. For 2021 injections an inflatable packer was installed approximately 10 ft bgs. The packer was inflated using a constant feed of compressed air at a pressure of 125 psi. Injections were completed with no further surfacing observed, indicating damage/leaking from this well shallower than 10 feet bgs.

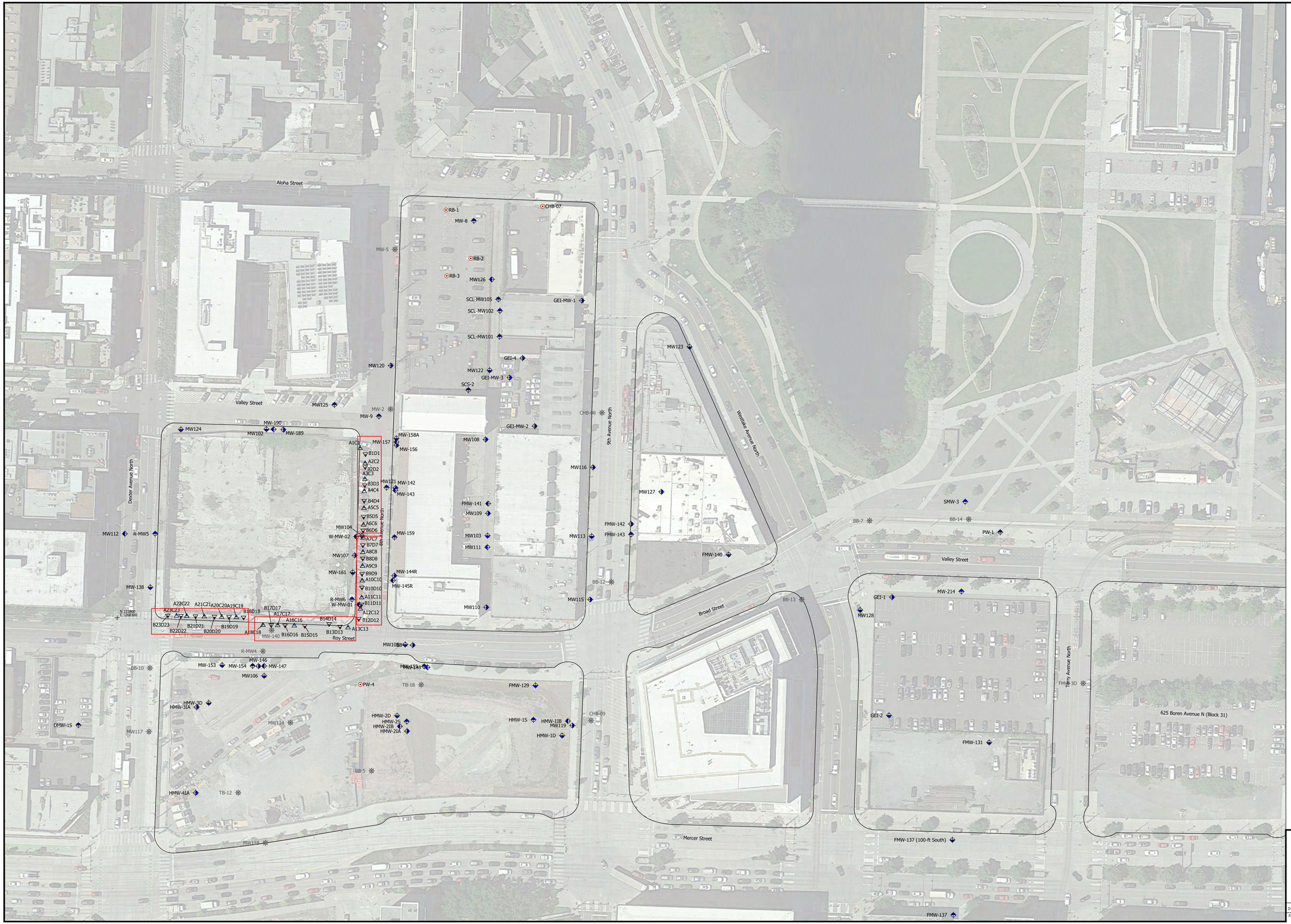
ISOTEC monitored subsurface levels P2 and P3 during the treatment program. Visual inspections were made daily before the start of injection, every 2-3 hours during injections, and at the completion of each day before leaving the site. An inspection log was maintained, and photos were collected daily prior to and following injections daily. ISOTEC supplied bags of sand, sorbent berms and an industrial wet vac for containment in the event of seepage. Minor seepage was observed during the 2021 event, though at a much lower volumes than during the 2020 event. ISOTEC estimates approximately 40 gallons of fluid was collected in P3 during the 2021 event versus approximately 250 gallons during the 2020 event.

Demobilization activities included removal of all ISOTEC equipment, materials, and personnel. Empty totes were left behind to be picked up at a later date by others. All reagent materials were injected safely and without incident.

3.0 OBSERVATIONS AND CONCLUSIONS

- The Perimeter ERD treatment program was successful at delivering reagent solutions to the subsurface into all four injection zones.
- ISOTEC made numerous adjustments to the injection strategy to optimize injection productivity and minimize surfacing of injected solutions. If needed, future injection events should follow ISOTEC's approach used in February 2021. Key features included the following:
    - Maintaining injection flow rate of 2 gpm and injection pressure of 70 psi or less. Lower injection pressures are recommended.
    - Limiting injection volume to an individual screen to 250 to 500 gallons per day.
    - Spreading active injection points out spatially to the extent practicable. Not injecting on adjacent injection points is recommended. Injection into two different Treatment Zone screens can be performed on the same day; it is recommended to allow 1 to 3 hours gap between when possible.
- Injection into Treatment Zone A encountered lower pressure and higher injection flow rate compared to other Treatment Zones. Injection observations for Treatment Zones B, C, and D were comparable. Limited variability was observed spatially for the PRB injection points on Roy Street or 8th Avenue North.
- The primary remediation challenges were associated with coordinating around the construction activities of numerous contractors and subcontractors.
- ISOTEC instituted additional health and safety measures to protect our staff and other site workers against the spread of COVID-19, including mandatory face covering, daily health screening and temperature check (by Turner), and social distancing between site workers.

FIGURES



N 231800
E 1268300

Explanation

- MW121 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- SV03 — Soil Vapor Monitoring Point
- R-MW1 — Decommissioned Monitoring Well
- B-2 — Soil Boring Location
- SW-A — Lake Monitoring Location
- Type 1 Perimeter Injection Well
- Type 2 Perimeter Injection Well
- N 231800 / E 1268300 — Coordinate Reference Point (NAD83, Washington State Plane North, US Feet)

N

0 60

SCALE IN FEET

Aerial Photo: June 27, 2016 (Google 2017)

PES Environmental, Inc.
Engineering & Environmental Services

□te-Wide □ploration Location Map
American Linen Supply Co. - Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 2

1413.001.02.501H	1413001025O1H_RIWA_2	DRAFT	3/20
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Figure 2:
2020 Treatment Area Map
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

ISOTEC

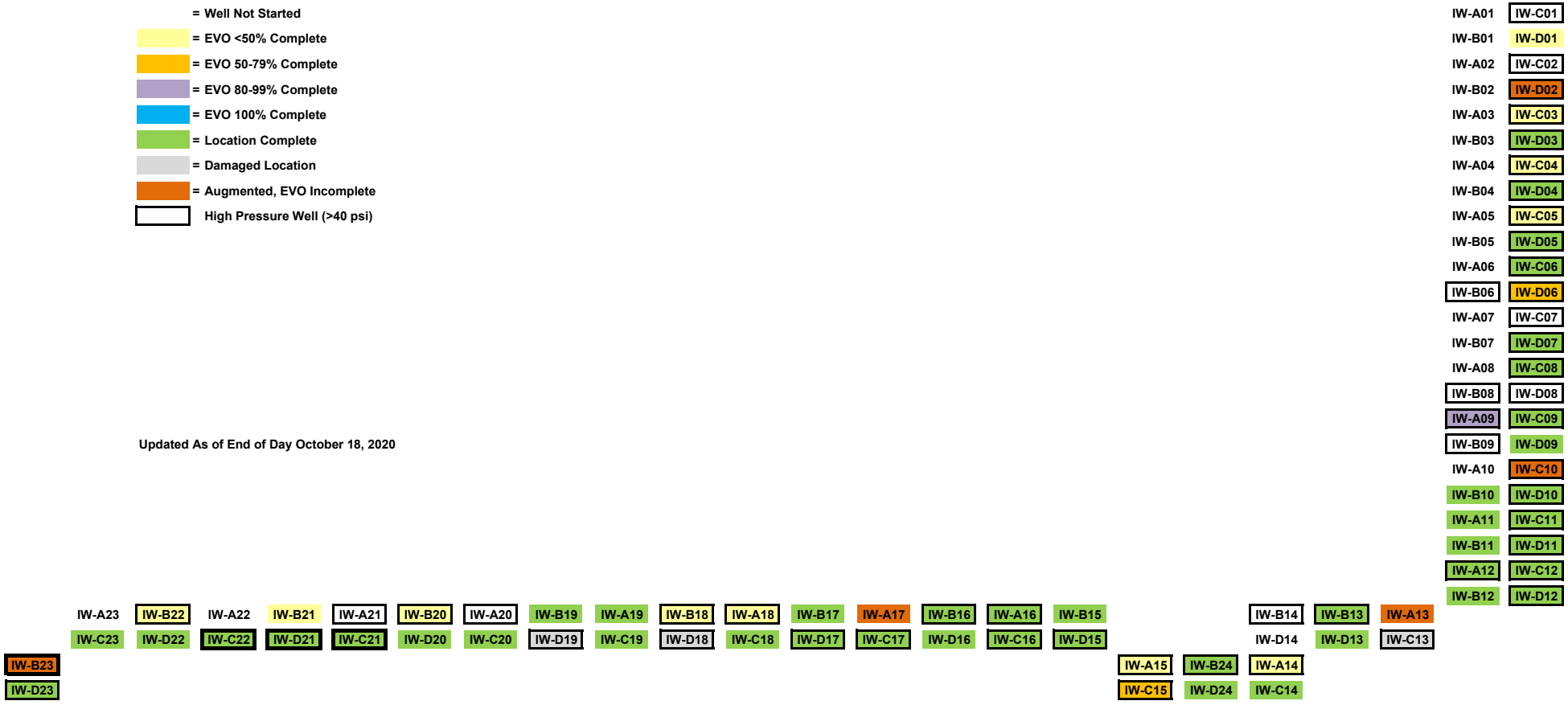
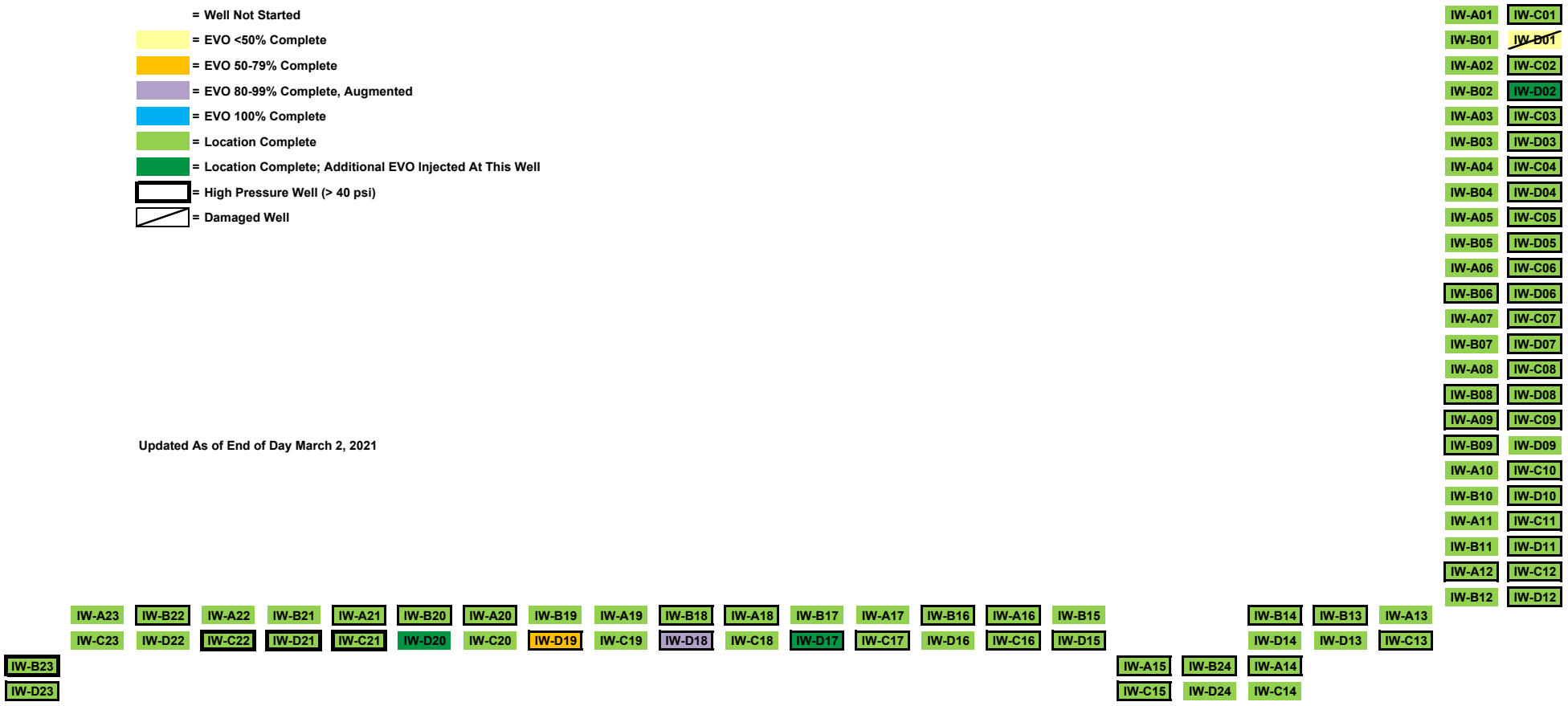


Figure 3:
2021 Treatment Area Map
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington



ATTACHMENT A

PERIMETER WELL INJECTION VOLUME TOTALS

Attachment A:
Perimeter Injection Well Volumes
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	Interval Name	Injected 9.67% EVO	Injected 5.75% EVO	Injected Total EVO (2020)	Injected Total EVO (2021)	Injected Total EVO	Injected Anoxic Water	Injected DHC	% Complete	Average Flow Rate	Maximum Pressure
IW-A01	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.9	18
IW-A02	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.8	14
IW-A03	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.8	20
IW-A04	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.6	16
IW-A05	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.6	20
IW-A06	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.8	36
IW-A07	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.7	20
IW-A08	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.7	40
IW-A09	zone A	1450	0	1335	115	1450	90	0.2	100.00%	1.5	42
IW-A10	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.8	40
IW-A11	zone A	1450	0	1450	0	1450	100	0.2	100.00%	1.6	14
IW-A12	zone A	1450	0	1450	0	1450	100	0.2	100.00%	1.4	70
IW-A13	zone A	1550	0	1300	250	1550	100	0.2	100.00%	1.4	24
IW-A14	zone A	1450	0	500	950	1450	90	0.2	100.00%	1.8	70
IW-A15	zone A	1450	0	600	850	1450	90	0.2	100.00%	1.8	66
IW-A16	zone A	1500	0	1500	0	1500	100	0.2	100.00%	1.7	44
IW-A17	zone A	1450	0	1365	85	1450	100	0.2	100.00%	1.6	14
IW-A18	zone A	1450	0	400	1050	1450	90	0.2	100.00%	1.2	90
IW-A19	zone A	1450	0	1450	0	1450	100	0.2	100.00%	1.7	6
IW-A20	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.5	68
IW-A21	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.4	62
IW-A22	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.6	40
IW-A23	zone A	1450	0	0	1450	1450	90	0.2	100.00%	1.8	14
IW-B01	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.8	24
IW-B02	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.7	22
IW-B03	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.9	26
IW-B04	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.4	28
IW-B05	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.7	30
IW-B06	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.5	70
IW-B07	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.4	28
IW-B08	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.2	80
IW-B09	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.5	54
IW-B10	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.3	30
IW-B11	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.6	34
IW-B12	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.2	36
IW-B13	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.3	42

Attachment A:
Perimeter Injection Well Volumes
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	Interval Name	Injected 9.67% EVO	Injected 5.75% EVO	Injected Total EVO (2020)	Injected Total EVO (2021)	Injected Total EVO	Injected Anoxic Water	Injected DHC	% Complete	Average Flow Rate	Maximum Pressure
IW-B14	zone B1	0	1050	0	1050	1050	90	0.15	100.00%	1.8	66
IW-B15	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.3	28
IW-B16	zone B1	0	1050	1050	0	1050	100	0.15	100.00%	1.1	85
IW-B17	zone B1	0	1050	1050	0	1050	100	0.2	100.00%	1.7	38
IW-B18	zone B2	1050	0	75	975	1050	90	0.15	100.00%	1.1	60
IW-B19	zone B2	1050	0	1050	0	1050	100	0.15	100.00%	1.7	22
IW-B20	zone B2	1050	0	470	580	1050	90	0.15	100.00%	1.5	66
IW-B21	zone B2	1050	0	250	800	1050	90	0.15	100.00%	1.8	30
IW-B22	zone B2	1050	0	300	750	1050	90	0.15	100.00%	1.4	62
IW-B23	zone B2	1050	0	500	550	1050	190	0.3	100.00%	1.0	70
IW-B24	zone B1	0	1200	1200	0	1200	90	0.15	100.00%	1.4	52
IW-C01	zone C	0	1050	0	1050	1050	90	0.15	100.00%	1.6	62
IW-C02	zone C	0	1100	0	1100	1100	90	0.15	100.00%	1.5	53
IW-C03	zone C	0	1050	255	795	1050	90	0.15	100.00%	1.6	80
IW-C04	zone C	0	1050	110	940	1050	90	0.15	100.00%	1.4	80
IW-C05	zone C	0	1050	450	600	1050	180	0.3	100.00%	1.3	70
IW-C06	zone C	0	1050	1050	0	1050	100	0.15	100.00%	0.8	60
IW-C07	zone C	0	1050	0	1050	1050	90	0.15	100.00%	1.5	56
IW-C08	zone C	0	1050	1050	0	1050	100	0.15	100.00%	0.9	70
IW-C09	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.4	55
IW-C10	zone C	0	1075	800	275	1075	100	0.15	100.00%	1.0	62
IW-C11	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.1	44
IW-C12	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.2	42
IW-C13	zone C	0	1050	80	970	1050	90	0.15	100.00%	1.3	60
IW-C14	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.3	14
IW-C15	zone C	0	1050	650	400	1050	90	0.15	100.00%	1.7	52
IW-C16	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.4	50
IW-C17	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.0	46
IW-C18	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.3	18
IW-C19	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.8	15
IW-C20	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.5	32
IW-C21	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.3	44
IW-C22	zone C	0	1085	1085	0	1085	100	0.15	100.00%	1.1	54
IW-C23	zone C	0	1050	1050	0	1050	100	0.15	100.00%	1.3	32
IW-D01	zone D	167	0	140	27	167	0	0	14.65%	0.9	32
IW-D02	zone D	1933	250	910	1273	2183	190	0.3	100.00%	1.4	48

Attachment A:
Perimeter Injection Well Volumes
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Location ID	Interval Name	Injected 9.67% EVO	Injected 5.75% EVO	Injected Total EVO (2020)	Injected Total EVO (2021)	Injected Total EVO	Injected Anoxic Water	Injected DHC	% Complete	Average Flow Rate	Maximum Pressure
IW-D03	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.1	50
IW-D04	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.0	52
IW-D05	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.0	42
IW-D06	zone D	1050	0	675	375	1050	90	0.15	100.00%	1.4	64
IW-D07	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.1	50
IW-D08	zone D	1050	0	0	1050	1050	90	0.15	100.00%	1.3	50
IW-D09	zone D	1100	0	1100	0	1100	100	0.15	100.00%	1.3	26
IW-D10	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.2	42
IW-D11	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.2	44
IW-D12	zone D	1050	0	1050	0	1050	100	0.2	100.00%	1.6	42
IW-D13	zone D	1050	0	1050	0	1050	100	0.2	100.00%	1.4	12
IW-D14	zone D	1050	0	0	1050	1050	90	0.15	100.00%	1.7	28
IW-D15	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.2	58
IW-D16	zone D	1050	0	1050	0	1050	100	0.2	100.00%	1.4	40
IW-D17	zone D	1230	0	1050	180	1230	100	0.15	100.00%	1.4	82
IW-D18	zone D	870	0	0	870	870	75	0.15	82.90%	0.8	90
IW-D19	zone D	752	0	0	752	752	2	0	66.13%	0.9	90
IW-D20	zone D	1350	0	1050	300	1350	190	0.3	100.00%	1.4	34
IW-D21	zone D	975	75	1050	0	1050	100	0.15	100.00%	0.9	52
IW-D22	zone D	1050	0	1050	0	1050	100	0.2	100.00%	1.2	30
IW-D23	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.1	52
IW-D24	zone D	1050	0	1050	0	1050	100	0.15	100.00%	1.6	4
		64,977	**43,635**	**59,250**	**49,362**	**108,612**	**9,107**	**15.80**			

Notes:

	= wells 100% complete or non-functional
	= wells greater than or equal to 50% complete and less than 100% complete
	= wells less than 50% complete

ATTACHMENT B

2020 INJECTION SUMMARY TABLE

Attachment B:
2020 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/23/20	IW-A12	zone A	10:59	17:48	EVO	0.0967	525	1.3	70	
09/23/20	IW-D17	zone D	10:59	14:46	EVO	0.0967	550	2.4	25	
09/23/20	IW-B16	zone B1	11:01	14:55	EVO	0.0575	470	2.0	85	pressure dropped to 65 psi @ ~100 gal injected
09/23/20	IW-C13	zone C	11:15	11:44	EVO	0.0575	30	1.0	24	leaked from glue fitting
09/23/20	IW-A13	zone A	11:55	17:48	EVO	0.0967	675	1.9	24	
09/23/20	IW-B17	zone B1	14:52	17:42	EVO	0.0575	405	2.4	38	
09/23/20	IW-C16	zone C	15:01	17:42	EVO	0.0575	345	2.1	50	
09/24/20	IW-A12	zone A	9:32	15:50	EVO	0.0967	775	2.1	38	
09/24/20	IW-A13	zone A	9:32	15:04	EVO	0.0967	625	1.9	12	
09/24/20	IW-B16	zone B1	9:32	14:16	EVO	0.0575	430	1.5	55	
09/24/20	IW-C16	zone C	9:32	15:23	EVO	0.0575	555	1.6	14	
09/24/20	IW-D17	zone D	12:39	15:15	EVO	0.0967	350	2.2	15	
09/24/20	IW-C12	zone C	13:57	17:47	EVO	0.0575	325	1.4	8	
09/24/20	IW-C17	zone C	14:36	17:51	EVO	0.0575	300	1.5	28	
09/24/20	IW-D16	zone D	15:11	17:59	EVO	0.0967	400	2.4	15	
09/24/20	IW-B17	zone B1	15:23	17:56	EVO	0.0575	390	2.5	24	
09/24/20	IW-A16	zone A	15:40	17:56	EVO	0.0967	350	2.6	22	
09/25/20	IW-D16	zone D	8:57	14:02	EVO	0.0967	500	1.6	15	
09/25/20	IW-C17	zone C	9:16	15:05	EVO	0.0575	600	1.7	30	
09/25/20	IW-C12	zone C	9:36	14:29	EVO	0.0575	575	2.0	18	
09/25/20	IW-B17	zone B1	9:56	11:02	EVO	0.0575	105	1.6	32	
09/25/20	IW-A16	zone A	10:20	15:09	EVO	0.0967	855	3.0	12	
09/25/20	IW-D13	zone D	11:16	17:44	EVO	0.0967	800	2.1	8	
09/25/20	IW-B19	zone B2	12:28	13:26	EVO	0.0967	125	2.2	12	Leaked from thread fitting, removed and reapplied teflon tape
09/25/20	IW-B19	zone B2	13:36	17:53	EVO	0.0967	625	2.4	22	
09/25/20	IW-D11	zone D	14:08	17:53	EVO	0.0967	375	1.7	32	
09/25/20	IW-C11	zone C	14:39	17:48	EVO	0.0575	520	2.8	10	
09/25/20	IW-A17	zone A	15:20	17:52	EVO	0.0967	470	3.1	3	
09/25/20	IW-B10	zone B1	15:20	17:51	EVO	0.0575	450	3.0	22	
09/26/20	IW-A17	zone A	9:20	14:17	EVO	0.0967	625	2.1	12	Pressure gradually dropped to 3 PSI
09/26/20	IW-B10	zone B1	9:20	13:22	EVO	0.0575	450	1.9	30	
09/26/20	IW-B19	zone B2	9:20	10:36	EVO	0.0967	150	2.0	10	
09/26/20	IW-C11	zone C	9:20	13:10	EVO	0.0575	380	1.7	42	
09/26/20	IW-D11	zone D	9:20	13:44	EVO	0.0967	525	2.0	44	

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ERD Remediation Program
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Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/26/20	IW-D13	zone D	9:20	10:30	EVO	0.0967	100	1.4	10	
09/26/20	IW-A16	zone A	10:48	11:50	EVO	0.0967	95	1.5	44	
09/26/20	IW-D12	zone D	10:51	14:17	EVO	0.0967	525	2.5	34	
09/26/20	IW-C19	zone C	12:03	14:17	EVO	0.0575	410	3.1	15	
09/26/20	IW-C09	zone C	13:21	14:17	EVO	0.0575	120	2.1	48	
09/26/20	IW-D10	zone D	13:33	14:17	EVO	0.0967	100	2.3	2	
09/26/20	IW-B11	zone B1	13:56	14:17	EVO	0.0575	55	2.6	28	
09/26/20	IW-A17	zone A	14:44	16:51	EVO	0.0967	270	2.1	3	
09/26/20	IW-B11	zone B1	14:44	16:47	EVO	0.0575	355	2.9	33	
09/26/20	IW-C09	zone C	14:44	16:53	EVO	0.0575	340	2.6	45	
09/26/20	IW-C19	zone C	14:44	16:47	EVO	0.0575	390	3.2	15	
09/26/20	IW-D10	zone D	14:44	16:53	EVO	0.0967	285	2.2	10	
09/26/20	IW-D12	zone D	14:44	16:48	EVO	0.0967	325	2.6	32	
09/27/20	IW-B11	zone B1	9:37	13:34	EVO	0.0575	490	2.1	34	
09/27/20	IW-C19	zone C	9:37	10:11	EVO	0.0575	100	2.9	3	
09/27/20	IW-D10	zone D	9:37	15:10	EVO	0.0967	515	1.5	40	
09/27/20	IW-D12	zone D	9:37	10:17	EVO	0.0967	50	1.3	22	
09/27/20	IW-C09	zone C	10:05	14:52	EVO	0.0575	440	1.5	55	
09/27/20	IW-A19	zone A	10:12	17:36	EVO	0.0967	1000	2.3	6	
09/27/20	IW-B12	zone B1	10:24	17:27	EVO	0.0575	650	1.5	36	
09/27/20	IW-A11	zone A	10:30	14:40	EVO	0.0967	900	3.6	12	
09/27/20	IW-A09	zone A	13:19	17:13	EVO	0.0967	485	2.1	28	
09/27/20	IW-C20	zone C	13:50	17:14	EVO	0.0575	500	2.5	32	
09/27/20	IW-B13	zone B1	15:00	17:33	EVO	0.0575	320	2.1	42	
09/28/20	IW-A09	zone A	10:45	17:29	EVO	0.0967	850	2.1	16	
09/28/20	IW-A11	zone A	10:45	15:58	EVO	0.0967	550	1.8	10	
09/28/20	IW-A19	zone A	10:45	13:22	EVO	0.0967	450	2.9	0	
09/28/20	IW-B12	zone B1	10:45	14:16	EVO	0.0575	400	1.9	20	
09/28/20	IW-B13	zone B1	10:45	17:19	EVO	0.0575	730	1.9	36	
09/28/20	IW-C20	zone C	10:45	15:30	EVO	0.0575	550	1.9	24	
09/28/20	IW-A16	zone A	13:30	15:00	EVO	0.0967	200	2.2	3	
09/28/20	IW-B15	zone B1	14:28	17:14	EVO	0.0575	350	2.1	28	
09/28/20	IW-A18	zone A	15:08	17:30	EVO	0.0967	400	2.8	20	
09/28/20	IW-C21	zone C	15:45	17:16	EVO	0.0575	220	2.4	44	
09/28/20	IW-A12	zone A	16:14	17:20	EVO	0.0967	150	2.3	12	
09/29/20	IW-B15	zone B1	8:22	14:36	EVO	0.0575	700	1.9	20	

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2020 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
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Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
09/29/20	IW-C21	zone C	8:23	17:15	EVO	0.0575	750	1.4	42	
09/29/20	IW-A14	zone A	9:54	14:26	EVO	0.0967	500	1.8	65	reduced flowrate and lowered pressure to 32-40 PSI
09/29/20	IW-B24	zone B1	10:02	14:32	EVO	0.0575	650	2.4	52	reduced flowrate and lowered pressure to 35 PSI
09/29/20	IW-A15	zone A	10:05	14:27	EVO	0.0967	600	2.3	26	
09/29/20	IW-D23	zone D	11:00	14:36	EVO	0.0967	500	2.3	36	
09/29/20	IW-C18	zone C	15:17	17:15	EVO	0.0575	325	2.8	12	
09/29/20	IW-D11	zone D	15:17	17:02	EVO	0.0967	150	1.4	40	
09/29/20	IW-D12	zone D	15:17	16:38	EVO	0.0967	150	1.9	42	
09/29/20	IW-D15	zone D	15:19	17:07	EVO	0.0967	150	1.4	28	
09/29/20	IW-C16	zone C	15:25	16:32	EVO	0.0575	150	2.2	12	
09/29/20	IW-C19	zone C	16:43	17:15	EVO	0.0575	50	1.6		
09/29/20	IW-D13	zone D	16:45	17:15	EVO	0.0967	75	2.5		
09/30/20	IW-C21	zone C	8:34	9:16	EVO	0.0575	80	1.9	42	
09/30/20	IW-D13	zone D	8:34	9:24	EVO	0.0967	75	1.5	12	
09/30/20	IW-C14	zone C	9:14	14:30	EVO	0.0575	600	1.9	14	
09/30/20	IW-C15	zone C	9:14	14:30	EVO	0.0575	600	1.9	30	
09/30/20	IW-B23	zone B2	9:17	14:30	EVO	0.0967	400	1.3	70	Reduced flow rate and pressure dropped to 55 PSI
09/30/20	IW-B24	zone B1	9:45	14:30	EVO	0.0575	550	1.9	24	
09/30/20	IW-D15	zone D	9:45	13:38	EVO	0.0967	250	1.1	52	
09/30/20	IW-D20	zone D	9:45	12:26	EVO	0.0967	350	2.2	2	
09/30/20	IW-B20	zone B2	12:36	15:40	EVO	0.0967	175	1.0	15	
09/30/20	IW-D16	zone D	14:10	15:40	EVO	0.0967	150	1.7	15	
09/30/20	IW-D17	zone D	14:57	15:40	EVO	0.0967	75	1.7	22	
09/30/20	IW-C23	zone C	15:15	15:40	EVO	0.0575	50	2.0	10	
09/30/20	IW-C22	zone C	15:29	15:40	EVO	0.0575	25	2.3	10	
10/07/20	IW-D15	zone D	14:10	16:54	EVO	0.0967	250	1.5	58	initial pressure at 24 psi; 40 psi at 100 gal; 58 psi at 250 gal
10/07/20	IW-C18	zone C	14:10	16:55	EVO	0.0575	250	1.5	14	initial pressure at 0 psi; 14 psi at 100 gal
10/07/20	IW-C23	zone C	14:10	17:01	EVO	0.0575	250	1.5	12	initial pressure at 12 psi; 8 psi at 250 gal
10/07/20	IW-D20	zone D	14:10	16:36	EVO	0.0967	250	1.7	0	
10/08/20	IW-C18	zone C	7:28	10:42	EVO	0.0575	250	1.3	18	

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Former American Linen Suppy
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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/08/20	IW-C23	zone C	7:28	9:54	EVO	0.0575	250	1.7	10	
10/08/20	IW-D15	zone D	7:28	9:18	EVO	0.0967	175	1.6	42	initial pressure at 40 psi; 42 psi at 175 gal; elevated GW at A16 at 175 gal
10/08/20	IW-D20	zone D	7:40	10:27	EVO	0.0967	250	1.5	0	
10/08/20	IW-D10	zone D	10:04	10:32	EVO	0.0967	25	0.9	42	initial pressure at 26 psi; 42 psi at 25 gal
10/08/20	IW-C22	zone C	10:17	15:03	EVO	0.0575	250	0.9	26	
10/08/20	IW-D09	zone D	11:12	13:03	EVO	0.0967	250	2.3	6	initial pressure at 0 psi; 6 psi at 100 gal
10/08/20	IW-C19	zone C	11:20	12:34	EVO	0.0575	100	1.4	0	
10/08/20	IW-C10	zone C	13:21	15:00	EVO	0.0575	50	0.5	62	initial pressure at 32 psi; 54 psi at 25 gal; pump off from 1346 to 1435 at 25 gal; 62 psi at 50 gal
10/08/20	IW-C17	zone C	15:10	16:47	EVO	0.0575	100	1.0	46	initial pressure at 28 ps; 46 psi at 100 gal
10/08/20	IW-D21	zone D	15:34	16:46	EVO	0.0967	100	1.4	0	
10/09/20	IW-C23	zone C	8:24	11:08	EVO	0.0575	250	1.5	12	
10/09/20	IW-D21	zone D	8:24	10:56	EVO	0.0967	175	1.2	50	initial pressure at 8 psi; 36 psi at 100 gal; 50 psi at 175 gal
10/09/20	IW-C17	zone C	8:24	9:39	EVO	0.0575	50	0.7	44	initial pressure at 36 psi; 44 psi at 50 gal
10/09/20	IW-D15	zone D	8:24	11:01	EVO	0.0967	225	1.4	32	initial pressure at 28 psi; 32 psi at 100 gal
10/09/20	IW-C18	zone C	10:08	12:51	EVO	0.0575	225	1.4	16	
10/09/20	IW-C22	zone C	11:09	11:32	EVO	0.0575	50	2.2	50	initial pressure at 36 psi; 50 psi at 50 gal
10/09/20	IW-C12	zone C	11:33	13:25	EVO	0.0575	150	1.3	42	initial pressure at 36 psi; 42 psi at 150 gal
10/09/20	IW-D20	zone D	11:33	14:07	EVO	0.0967	200	1.3	0	
10/09/20	IW-D22	zone D	11:51	16:31	EVO	0.0967	500	1.8	0	
10/09/20	IW-D17	zone D	13:06	13:12	EVO	0.0967	0	0.0	82	82 psi at 5 gal of water
10/09/20	IW-C11	zone C	13:24	15:33	EVO	0.0575	125	1.0	44	initial pressure at 14 psi; 44 psi at 125 gal
10/09/20	IW-B19	zone B2	14:12	15:24	EVO	0.0967	150	2.1	0	
10/09/20	IW-B17	zone B1	14:47	16:14	EVO	0.0575	150	1.7	28	
10/09/20	IW-D01	zone D	15:12	16:52	EVO	0.0967	140	1.4	32	initial pressure at 10 psi; 32 psi at 100 gal
10/09/20	IW-B10	zone B1	15:46	16:52	EVO	0.0575	60	0.9	24	initial pressure at 12 psi; 24 psi at 50 gal

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/09/20	IW-B16	zone B1	16:11	16:22	EVO	0.0575	5	0.5	44	initial pressure at 30 psi; 44 psi at 5 gal
10/10/20	IW-C23	zone C	10:16	12:52	EVO	0.0575	250	1.6	32	initial pressure at 24 psi; 32 psi at 100 gal
10/10/20	IW-B10	zone B1	10:16	11:12	EVO	0.0575	90	1.6	26	
10/10/20	IW-D06	zone D	10:35	11:06	EVO	0.0967	25	0.8	64	initial pressure at 38 psi; 64 psi at 25 gal
10/10/20	IW-C05	zone C	10:16	11:06	EVO	0.0575	50	1.0	52	initial pressure at 28 psi; 52 psi at 50 gal
10/10/20	IW-D02	zone D	10:16	11:15	EVO	0.0967	100	1.7	16	injection stopped due to elevated groundwater at well IW-C2
10/10/20	IW-D21	zone D	11:34	13:04	EVO	0.0575	75	0.8	52	initial pressure at 26 psi; 52 psi at 75 gal
10/10/20	IW-B11	zone B1	11:51	13:50	EVO	0.0575	150	1.3	12	
10/10/20	IW-C06	zone C	12:20	13:16	EVO	0.0575	100	1.8	56	initial pressure at 26 psi; 56 psi at 100 gal
10/10/20	IW-D04	zone D	12:43	13:19	EVO	0.0967	40	1.1	52	initial pressure at 30 psi; 52 psi at 40 gal
10/10/20	IW-D07	zone D	12:52	16:11	EVO	0.0967	250	1.3	32	initial pressure at 4 psi; 32 psi at 150 gal
10/10/20	IW-D09	zone D	13:46	17:38	EVO	0.0967	450	1.9	26	initial pressure at 0 psi; 26 psi at 450 gal
10/10/20	IW-D22	zone D	14:26	16:22	EVO	0.0967	250	2.2	30	initial pressure at 14 psi; 30 psi at 250 gal
10/10/20	IW-C11	zone C	14:33	15:03	EVO	0.0575	25	0.8	44	initial pressure at 18 psi; 44 psi at 25 gal
10/10/20	IW-C04	zone C	15:53	16:03	EVO	0.0575	10	1.0	80	
10/10/20	IW-C03	zone C	16:14	16:18	EVO	0.0575	5	1.3	80	
10/10/20	IW-D03	zone D	16:55	17:38	EVO	0.0967	50	1.2	22	initial pressure at 14 psi; 22 psi at 50 gal
10/10/20	IW-C22	zone C	16:55	17:17	EVO	0.0575	25	1.1	52	initial pressure at 30 psi; 52 psi at 25 gal
10/10/20	IW-C07	zone C	17:02	17:10	EVO	0.0575	0	0.0	52	10 gal water flush only; 52 psi after 10 gal of water injected
10/11/20	IW-D22	zone D	10:15	14:39	EVO	0.0967	300	1.1	14	
10/11/20	IW-D05	zone D	10:15	16:38	EVO	0.0967	450	1.2	30	initial pressure at 24 psi; 30 psi at 400 gal
10/11/20	IW-D07	zone D	10:15	13:53	EVO	0.0967	225	1.0	50	initial pressure at 24 psi; 50 psi at 225 gal

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/11/20	IW-D02	zone D	10:15	13:53	EVO	0.0967	225	1.0	48	initial pressure at 30 psi; 48 psi at 225 gal
10/11/20	IW-C01	zone C	13:38	13:48	EVO	0.0575	0	0.0	54	10 gal water flush only; 54 psi after 10 gal of water injected
10/11/20	IW-C10	zone C	14:01	16:38	EVO	0.0575	200	1.3	30	initial pressure at 28 psi; 30 psi at 100 gal
10/11/20	IW-C22	zone C	14:50	16:31	EVO	0.0575	60	0.6	54	initial pressure at 10 psi; 38 psi at 25 gal; 54 psi at 150 gal
10/11/20	IW-D03	zone D	14:55	16:38	EVO	0.0967	150	1.5	50	initial pressure at 26 psi; 36 psi at 100 gal; 50 psi at 150 gal
10/11/20	IW-C08	zone C	14:55	15:05	EVO	0.0575	0	0.0	70	10 gal water flush only; 70 psi after 10 gal of water injected
10/12/20	IW-C22	zone C	8:46	15:47	EVO	0.0575	325	0.8	42	
10/12/20	IW-D21	zone D	8:46	16:05	EVO	0.0967	375	0.9	38	
10/12/20	IW-C13	zone C	10:45	11:25	EVO	0.0575	50	1.3	20	Surfaced up well casing
10/12/20	IW-C16	zone C	11:51	12:15	AW	0.0575	30	1.3	6	
10/12/20	IW-C16	zone C	12:15	12:16	DHC	10	0.15	0.1		
10/12/20	IW-C16	zone C	12:16	13:40	AW	0.0575	70	0.8	6	Location complete
10/12/20	IW-C18	zone C	11:51	12:21	AW	0.0575	30	1.0	10	
10/12/20	IW-C18	zone C	12:21	12:22	DHC	10	0.15	0.1		
10/12/20	IW-C18	zone C	12:22	13:15	AW	0.0575	70	1.3	10	Location complete
10/12/20	IW-D13	zone D	13:17	13:43	AW	0.0967	30	1.2	2	
10/12/20	IW-D13	zone D	13:43	13:48	DHC	10	0.2	0.0		
10/12/20	IW-D13	zone D	13:48	14:46	AW	0.0967	70	1.2	2	Location complete
10/12/20	IW-D16	zone D	13:18	13:40	AW	0.0967	30	1.4	32	
10/12/20	IW-D16	zone D	13:40	13:42	DHC	10	0.2	0.1		
10/12/20	IW-D16	zone D	13:42	14:44	AW	0.0967	70	1.1	40	Location complete
10/12/20	IW-C17	zone C	14:12	14:49	AW	0.0575	30	0.8	28	
10/12/20	IW-C17	zone C	13:40	13:42	DHC	10	0.15	0.1		
10/12/20	IW-C17	zone C	14:53	16:16	AW	0.0575	70	0.8	34	Location complete
10/12/20	IW-C19	zone C	15:01	15:33	AW	0.0575	30	0.9	6	
10/12/20	IW-C19	zone C	15:33	15:36	DHC	10	0.15	0.1		
10/12/20	IW-C19	zone C	15:36	16:36	AW	0.0575	70	1.2	6	Location complete
10/12/20	IW-C12	zone C	15:00	15:21	AW	0.0575	30	1.4	26	
10/12/20	IW-C12	zone C	15:21	15:23	DHC	10	0.15	0.1		

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/12/20	IW-C12	zone C	15:23	16:26	AW	0.0575	70	1.1	32	Location complete
10/12/20	IW-D22	zone D	16:20	16:52	AW	0.0967	30	0.9	10	
10/12/20	IW-D22	zone D	16:52	16:54	DHC	10	0.2	0.1		
10/12/20	IW-D22	zone D	16:54	17:49	AW	0.0967	70	1.3	12	Location complete
10/12/20	IW-D03	zone D	15:40	17:44	EVO	0.0967	175	1.4	36	
10/12/20	IW-C05	zone C	15:40	17:42	EVO	0.0575	150	1.2	32	
10/12/20	IW-D07	zone D	16:01	17:49	EVO	0.0967	150	1.4	20	
10/12/20	IW-D12	zone D	16:40	16:59	AW	0.0967	30	1.6	20	
10/12/20	IW-D12	zone D	16:59	17:01	DHC	10	0.2	0.1		
10/12/20	IW-D12	zone D	17:01	17:55	AW	0.0967	70	1.3	20	Location complete
10/12/20	IW-C20	zone C	16:44	17:07	AW	0.0575	30	1.3	6	
10/12/20	IW-C20	zone C	17:07	17:09	DHC	10	0.15	0.1		
10/12/20	IW-C20	zone C	17:09	17:55	AW	0.0575	70	1.5	6	Location complete
10/13/20	IW-C22	zone C	8:52	13:47	EVO	0.0575	350	1.2	32	EVO complete
10/13/20	IW-D21	zone D	8:52	17:05	EVO	0.0967	325	0.7	42	EVO complete
10/13/20	IW-D20	zone D	8:58	9:27	AW	0.0967	30	1.0	10	
10/13/20	IW-D20	zone D	9:27	9:31	DHC	10	0.15	0.0		
10/13/20	IW-D20	zone D	9:31	10:17	AW	0.0967	70	1.5	10	Location complete
10/13/20	IW-D15	zone D	9:10	9:32	AW	0.0967	30	1.4	36	
10/13/20	IW-D15	zone D	9:32	9:35	DHC	10	0.15	0.0		
10/13/20	IW-D15	zone D	9:35	10:56	AW	0.0967	70	0.9	40	Location complete
10/13/20	IW-C03	zone C	8:55	14:57	EVO	0.0575	250	0.7	30	
10/13/20	IW-D04	zone D	8:55	11:31	EVO	0.0967	250	1.6	28	
10/13/20	IW-C23	zone C	10:48	11:16	AW	0.0575	30	1.1	28	
10/13/20	IW-C23	zone C	11:16	11:18	DHC	10	0.15	0.1		
10/13/20	IW-C23	zone C	11:18	12:25	AW	0.0575	70	1.0	30	Location complete
10/13/20	IW-C06	zone C	11:43	17:12	EVO	0.0575	200	0.6	56	
10/13/20	IW-C04	zone C	15:07	17:25	EVO	0.0575	100	0.7	52	
10/13/20	IW-C11	zone C	11:40	12:22	AW	0.0575	30	0.7	33	
10/13/20	IW-C11	zone C	12:22	12:26	DHC	10	0.15	0.0		
10/13/20	IW-C11	zone C	12:26	13:53	AW	0.0575	70	0.8	44	Location complete
10/13/20	IW-D07	zone D	12:35	16:20	EVO	0.0967	300	1.3	34	
10/13/20	IW-D11	zone D	13:55	14:34	AW	0.0967	40	1.0	10	
10/13/20	IW-D11	zone D	14:34	14:37	DHC	10	0.15	0.0		
10/13/20	IW-D11	zone D	14:37	15:56	AW	0.0967	60	0.8	10	Location complete
10/13/20	IW-D09	zone D	14:22	17:35	EVO	0.0967	250	1.3	22	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/13/20	IW-D17	zone D	14:35	15:39	EVO	0.0967	75	1.2	30	EVO complete
10/13/20	IW-C21	zone C	16:17	16:42	AW	0.0575	30	1.2	20	
10/13/20	IW-C21	zone C	16:42	16:44	DHC	10	0.15	0.1		
10/13/20	IW-C21	zone C	16:44	17:54	AW	0.0575	70	1.0	26	Location complete
10/13/20	IW-D10	zone D	16:26	17:37	EVO	0.0967	75	1.1	34	
10/14/20	IW-D23	zone D	9:58	13:45	EVO	0.0967	320	1.4	52	Upwelling in B23
10/14/20	IW-C14	zone C	9:23	13:52	EVO	0.0575	450	1.7	12	EVO complete
10/14/20	IW-D07	zone D	9:05	10:43	EVO	0.0967	125	1.3	38	
10/14/20	IW-D09	zone D	9:05	11:39	EVO	0.0967	150	1.0	22	
10/14/20	IW-C06	zone C	9:35	16:59	EVO	0.0575	250	0.6	56	
10/14/20	IW-D04	zone D	10:41	17:05	EVO	0.0967	275	0.7	52	Pressure was 32 PSI for first ~150 gallons injected
10/14/20	IW-C08	zone C	10:50	16:10	EVO	0.0575	275	0.9	60	reduced flowrate, pressure reduced to 54 PSI
10/14/20	IW-D10	zone D	9:57	10:36	EVO	0.0967	50	1.3	4	EVO complete
10/14/20	IW-C09	zone C	11:45	14:42	EVO	0.0575	150	0.8	38	EVO complete
10/14/20	IW-C15	zone C	13:55	14:32	EVO	0.0575	50	1.4	28	
10/14/20	IW-C22	zone C	15:25	15:57	AW	0.0575	30	0.9	22	
10/14/20	IW-C22	zone C	15:57	16:00	DHC	10	0.15	0.1		
10/14/20	IW-C22	zone C	16:00	17:35	AW	0.0575	70	0.7	22	Location complete
10/14/20	IW-D10	zone D	15:25	16:00	AW	0.0967	30	0.9	22	
10/14/20	IW-D10	zone D	16:00	16:02	DHC	10	0.15	0.1		
10/14/20	IW-D10	zone D	16:02	17:31	AW	0.0967	70	0.8	22	Location complete
10/14/20	IW-D09	zone D	15:25	15:45	AW	0.0967	30	1.5	20	
10/14/20	IW-D09	zone D	15:45	15:47	DHC	10	0.15	0.1		
10/14/20	IW-D09	zone D	15:47	17:01	AW	0.0967	70	0.9	24	Location complete
10/14/20	IW-D02	zone D	16:15	17:23	EVO	0.0967	100	1.5	6	Upwelling in C02
10/15/20	IW-D24	zone D	9:16	14:48	EVO	0.0967	750	2.3	4	
10/15/20	IW-D23	zone D	9:30	13:56	EVO	0.0967	230	0.9	30	EVO complete
10/15/20	IW-D23	zone D	14:00	14:24	AW	0.0967	30	1.3	30	
10/15/20	IW-D04	zone D	9:06	13:20	EVO	0.0967	250	1.0	32	
10/15/20	IW-D06	zone D	9:06	13:13	EVO	0.0967	250	1.0	38	
10/15/20	IW-C08	zone C	9:11	12:50	EVO	0.0575	250	1.1	50	
10/15/20	IW-C10	zone C	13:08	17:19	EVO	0.0575	300	1.2	38	
10/15/20	IW-D03	zone D	13:48	17:37	EVO	0.0967	300	1.3	36	
10/15/20	IW-D05	zone D	13:48	17:35	EVO	0.0967	350	1.5	4	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/15/20	IW-D21	zone D	14:30	15:00	AW	0.0967	30	1.0	26	
10/15/20	IW-D21	zone D	15:00	15:04	DHC	10	0.15	0.0		
10/15/20	IW-D21	zone D	15:04	15:54	AW	0.0967	70	1.4	36	Location complete
10/15/20	IW-D17	zone D	14:04	14:29	AW	0.0967	30	1.2	20	
10/15/20	IW-D17	zone D	14:29	14:31	DHC	10	0.15	0.1		
10/15/20	IW-D17	zone D	14:31	15:29	AW	0.0967	70	1.2	24	Location complete
10/15/20	IW-C09	zone C	15:25	15:45	AW	0.0575	30	1.5	22	
10/15/20	IW-C09	zone C	15:45	15:48	DHC	10	0.15	0.1		
10/15/20	IW-C09	zone C	15:48	17:00	AW	0.0575	70	1.0	34	Location complete
10/15/20	IW-B19	zone B2	16:33	16:58	AW	0.0967	35	1.4	2	
10/15/20	IW-B19	zone B2	16:58	17:00	DHC	10	0.15	0.1		
10/15/20	IW-B19	zone B2	17:00	17:42	AW	0.0967	65	1.5	2	Location complete
10/16/20	IW-D23	zone D	9:12	9:23	AW	0.0967	10	0.9	24	
10/16/20	IW-D23	zone D	9:23	9:28	DHC	10	0.15	0.0		
10/16/20	IW-D23	zone D	9:28	10:18	AW	0.0967	60	1.2	30	Location complete
10/16/20	IW-D24	zone D	9:08	11:33	EVO	0.0967	300	2.1	4	EVO complete
10/16/20	IW-D24	zone D	11:33	11:48	AW	0.0967	30	2.0	4	
10/16/20	IW-D24	zone D	11:48	11:50	DHC	10	0.15	0.1		
10/16/20	IW-D24	zone D	11:50	12:33	AW	0.0967	70	1.6	4	Location complete
10/16/20	IW-C14	zone C	12:37	13:05	AW	0.0575	35	1.3	14	
10/16/20	IW-C14	zone C	13:05	13:07	DHC	10	0.15	0.1		
10/16/20	IW-C14	zone C	13:07	13:45	AW	0.0575	65	1.7	14	Location complete
10/16/20	IW-B24	zone B1	13:40	14:04	AW	0.0575	30	1.3	12	
10/16/20	IW-B24	zone B1	14:04	14:06	DHC	10	0.15	0.1		
10/16/20	IW-B24	zone B1	14:06	14:49	AW	0.0575	60	1.4	18	Location complete
10/16/20	IW-C06	zone C	9:16	15:30	EVO	0.0575	300	0.8	26	
10/16/20	IW-C08	zone C	8:52	13:07	EVO	0.0575	275	1.1	44	
10/16/20	IW-D03	zone D	8:49	15:15	EVO	0.0967	375	1.0	38	
10/16/20	IW-B10	zone B1	9:12	9:48	AW	0.0575	35	1.0	20	
10/16/20	IW-B10	zone B1	9:48	9:52	DHC	10	0.15	0.0		
10/16/20	IW-B10	zone B1	9:52	10:59	AW	0.0575	65	1.0	20	Location complete
10/16/20	IW-B23	zone B2	10:50	12:12	EVO	0.0967	100	1.2	56	
10/16/20	IW-B23	zone B2	12:12	12:40	AW	0.0967	30	1.1	56	
10/16/20	IW-B23	zone B2	12:40	12:44	DHC	10	0.15	0.0		
10/16/20	IW-B23	zone B2	12:44	13:51	AW	0.0967	70	1.0	56	
10/16/20	IW-B11	zone B1	11:40	12:15	AW	0.0575	30	0.9	12	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/16/20	IW-B11	zone B1	12:15	12:17	DHC	10	0.15	0.1		
10/16/20	IW-B11	zone B1	12:17	13:10	AW	0.0575	70	1.3	12	Location complete
10/16/20	IW-C05	zone C	13:29	17:34	EVO	0.0575	250	1.0	22	
10/16/20	IW-B12	zone B1	13:23	13:43	AW	0.0967	30	1.5	20	
10/16/20	IW-B12	zone B1	13:43	13:45	DHC	10	0.15	0.1		
10/16/20	IW-B12	zone B1	13:45	14:51	AW	0.0967	70	1.1	20	Location complete
10/16/20	IW-B22	zone B2	14:09	17:06	EVO	0.0967	300	1.7	38	
10/16/20	IW-B13	zone B1	14:58	15:31	AW	0.0575	30	0.9	28	
10/16/20	IW-B13	zone B1	15:31	15:34	DHC	10	0.15	0.1		
10/16/20	IW-B13	zone B1	15:34	16:17	AW	0.0575	70	1.6	28	Location complete
10/16/20	IW-D02	zone D	15:35	17:31	EVO	0.0967	150	1.3	24	
10/16/20	IW-D06	zone D	15:36	17:36	EVO	0.0967	150	1.3	54	
10/16/20	IW-B15	zone B1	16:25	16:52	AW	0.0575	30	1.1	16	
10/16/20	IW-B15	zone B1	16:52	16:54	DHC	10	0.15	0.1		
10/16/20	IW-B15	zone B1	16:54	17:40	AW	0.0575	70	1.5	16	Location complete
10/17/20	IW-B21	zone B2	9:15	11:10	EVO	0.0967	250	2.2	2	
10/17/20	IW-D04	zone D	9:19	11:55	EVO	0.0967	235	1.5	30	EVO complete
10/17/20	IW-C06	zone C	9:25	15:11	EVO	0.0575	200	0.6	60	EVO complete
10/17/20	IW-C08	zone C	9:19	12:11	EVO	0.0575	250	1.5	42	EVO complete
10/17/20	IW-C10	zone C	9:20	14:03	EVO	0.0575	250	0.9	50	
10/17/20	IW-A19	zone A	9:25	9:50	AW	0.0967	35	1.4	2	
10/17/20	IW-A19	zone A	9:50	9:52	DHC	10	0.2	0.1		
10/17/20	IW-A19	zone A	9:52	10:27	AW	0.0967	65	1.9	2	Location complete
10/17/20	IW-B17	zone B1	10:29	10:50	AW	0.0575	30	1.4	24	
10/17/20	IW-B17	zone B1	10:50	10:52	DHC	10	0.2	0.1		
10/17/20	IW-B17	zone B1	10:52	11:31	AW	0.0575	70	1.8	30	Location complete
10/17/20	IW-B20	zone B2	11:12	13:38	EVO	0.0967	250	1.7	10	
10/17/20	IW-A17	zone A	11:37	12:03	AW	0.0967	30	1.2	2	
10/17/20	IW-A17	zone A	12:03	12:05	DHC	10	0.2	0.1		
10/17/20	IW-A17	zone A	12:05	12:47	AW	0.0967	70	1.7	2	
10/17/20	IW-D02	zone D	12:02	14:46	EVO	0.0967	250	1.5	10	
10/17/20	IW-D06	zone D	12:26	17:27	EVO	0.0967	250	0.8	56	
10/17/20	IW-A16	zone A	12:58	13:35	AW	0.0967	35	0.9	10	
10/17/20	IW-A16	zone A	13:35	13:37	DHC	10	0.2	0.1		
10/17/20	IW-A16	zone A	13:37	14:12	AW	0.0967	65	1.9	16	Location complete
10/17/20	IW-B16	zone B1	13:56	16:17	EVO	0.0575	145	1.0	50	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/17/20	IW-A11	zone A	14:06	14:32	AW	0.0967	30	1.2	14	
10/17/20	IW-A11	zone A	14:32	14:34	DHC	10	0.2	0.1		
10/17/20	IW-A11	zone A	14:34	15:32	AW	0.0967	70	1.2	14	Location complete
10/17/20	IW-A13	zone A	14:23	14:45	AW	0.0967	30	1.4	8	
10/17/20	IW-A13	zone A	14:45	14:47	DHC	10	0.2	0.1		
10/17/20	IW-A13	zone A	14:47	15:38	AW	0.0967	70	1.4	8	
10/17/20	IW-D05	zone D	15:09	17:30	EVO	0.0967	150	1.1	36	
10/17/20	IW-B18	zone B2	16:09	17:30	EVO	0.0967	75	0.9	60	
10/17/20	IW-A12	zone A	16:04	16:30	AW	0.0967	30	1.2	16	
10/17/20	IW-A12	zone A	16:30	16:33	DHC	10	0.2	0.1		
10/17/20	IW-A12	zone A	16:33	17:17	AW	0.0967	70	1.6	16	Location complete
10/18/20	IW-D02	zone D	9:12	10:45	EVO	0.0967	85	0.9	24	
10/18/20	IW-D02	zone D	13:07	13:33	AW	0.0967	30	1.2	20	
10/18/20	IW-D02	zone D	13:33	13:36	DHC	10	0.15	0.1		
10/18/20	IW-D02	zone D	13:36	14:29	AW	0.0967	70	1.3	20	
10/18/20	IW-D05	zone D	9:12	10:40	EVO	0.0967	100	1.1	42	EVO complete
10/18/20	IW-D05	zone D	10:45	11:08	AW	0.0967	30	1.3	42	
10/18/20	IW-D05	zone D	11:08	11:10	DHC	10	0.15	0.1		
10/18/20	IW-D05	zone D	11:10	12:37	AW	0.0967	70	0.8	42	Location complete
10/18/20	IW-B16	zone B1	9:12	9:52	AW	0.0575	30	0.7	50	
10/18/20	IW-B16	zone B1	9:52	9:55	DHC	10	0.15	0.1		
10/18/20	IW-B16	zone B1	9:55	10:39	AW	0.0575	70	1.6	50	
10/18/20	IW-B20	zone B2	9:15	10:15	EVO	0.0967	45	0.8		
10/18/20	IW-C06	zone C	10:30	10:58	AW	0.0575	30	1.1	50	
10/18/20	IW-C06	zone C	10:58	11:02	DHC	10	0.15	0.0		
10/18/20	IW-C06	zone C	11:02	12:06	AW	0.0575	70	1.1	50	Location complete
10/18/20	IW-C08	zone C	9:12	9:36	AW	0.0575	30	1.3	34	
10/18/20	IW-C08	zone C	9:36	9:39	DHC	10	0.15	0.0		
10/18/20	IW-C08	zone C	9:39	10:27	AW	0.0575	70	1.5	34	Location complete
10/18/20	IW-C10	zone C	9:10	9:33	AW	0.0575	30	1.3	32	
10/18/20	IW-C10	zone C	9:33	9:35	DHC	10	0.15	0.1		
10/18/20	IW-C10	zone C	9:35	11:05	AW	0.0575	70	0.8	52	
10/18/20	IW-D04	zone D	11:01	11:43	AW	0.0967	35	0.8	36	
10/18/20	IW-D04	zone D	11:43	11:45	DHC	10	0.15	0.1		
10/18/20	IW-D04	zone D	11:45	13:03	AW	0.0967	65	0.8	40	
10/18/20	IW-D07	zone D	10:44	11:10	AW	0.0967	30	1.2	34	

Attachment B:
2020 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
10/18/20	IW-D07	zone D	11:10	11:13	DHC	10	0.15	0.0		
10/18/20	IW-D07	zone D	11:13	12:11	AW	0.0967	70	1.2	34	
10/18/20	IW-D03	zone D	11:40	12:04	AW	0.0967	30	1.3	32	
10/18/20	IW-D03	zone D	12:04	12:07	DHC	10	0.15	0.1		
10/18/20	IW-D03	zone D	12:07	13:09	AW	0.0967	70	1.1	40	
							64,148	**1.27**	**85**	

ATTACHMENT C

2020 DAILY FIELD REPORTS

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	23-Sep-20	Client:	PES	Personnel:	KO, MC, WP, JT
Project #:	901312	Location:	Seattle, WA	Weather:	

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches 9.7 and 5.75% SRS-SD EVO
-Compressor repairs
- Injected 3,000 gallons of EVO solution into 7 injection screens, primarily in the eastern portion of Roy Street

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A12	zone A	10:59:00 AM	5:48:00 PM	EVO	9.67%	525	1.3	70	
IW-C13	zone C	11:15:00 AM	11:44:00 AM	EVO	5.75%	30	1.0	24	leaked from glue fitting
IW-B16	zone B1	11:01:00 AM	2:55:00 PM	EVO	5.75%	470	2.0	85	pressure dropped to 65 psi @ ~100 gal injected
IW-D17	zone D	10:59:00 AM	2:46:00 PM	EVO	9.67%	550	2.4	25	
IW-A13	zone A	11:55:00 AM	5:48:00 PM	EVO	9.67%	675	1.9	24	
IW-C16	zone C	3:01:00 PM	5:42:00 PM	EVO	5.75%	345	2.1	50	
IW-B17	zone B1	2:52:00 PM	5:42:00 PM	EVO	5.75%	405	2.4	38	
Totals	7					3,000			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	24-Sep-20	Client:	PES	Personnel:	KO, MC, WP, JT
Project #:	901312	Location:	Seattle, WA	Weather:	

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 4,500 gallons of EVO solution into 10 injection screens, primarily in the eastern portion of Roy Street

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A13	zone A	9:32:00 AM	3:04:00 PM	EVO	9.67%	625	1.9	12	
IW-D17	zone D	12:39:00 PM	3:15:00 PM	EVO	9.67%	350	2.2	15	
IW-C16	zone C	9:32:00 AM	3:23:00 PM	EVO	5.75%	555	1.6	14	
IW-B16	zone B1	9:32:00 AM	2:16:00 PM	EVO	5.75%	430	1.5	55	
IW-D16	zone D	3:11:00 PM	5:59:00 PM	EVO	9.67%	400	2.4	15	
IW-A12	zone A	9:32:00 AM	3:50:00 PM	EVO	9.67%	775	2.1	38	
IW-C12	zone C	1:57:00 PM	5:47:00 PM	EVO	5.75%	325	1.4	8	
IW-C17	zone C	2:36:00 PM	5:51:00 PM	EVO	5.75%	300	2	28	
IW-B17	zone B1	3:23:00 PM	5:56:00 PM	EVO	5.75%	390	3	24	
IW-A16	zone A	3:40:00 PM	5:56:00 PM	EVO	9.67%	350	3	22	
Totals	10					4,500			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	25-Sep-20	Client:	PES	Personnel:	KO, JT, MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	AM Rain, 55-64°

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 6,000 gallons of EVO solution into 11 injection screens on Roy Street and 8th Avenue

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A16	zone A	10:20:00 AM	3:09:00 PM	EVO	9.67%	855	3.0	12	
IW-B17	zone B1	9:56:00 AM	11:02:00 AM	EVO	5.75%	105	1.6	32	
IW-C12	zone C	9:36:00 AM	2:29:00 PM	EVO	5.75%	575	2.0	18	
IW-C17	zone C	9:16:00 AM	3:05:00 PM	EVO	5.75%	600	1.7	30	
IW-D16	zone D	8:57:00 AM	2:02:00 PM	EVO	9.67%	500	1.6	15	
IW-A17	zone A	3:20:00 PM	5:52:00 PM	EVO	9.67%	470	3.1	3	
IW-D13	zone D	11:16:00 AM	5:44:00 PM	EVO	9.67%	800	2.1	8	
IW-B19	zone B2	12:28:00 PM	1:26:00 PM	EVO	9.67%	125	2.2	12	Leaked from thread fitting, removed and reapplied teflon tape
IW-B19	zone B2	1:36:00 PM	5:53:00 PM	EVO	9.67%	625	2.4	22	
IW-D11	zone D	2:08:00 PM	5:53:00 PM	EVO	9.67%	375	1.7	32	
IW-C11	zone C	2:39:00 PM	5:48:00 PM	EVO	5.75%	520	2.8	10	
IW-B10	zone B1	3:20:00 PM	5:51:00 PM	EVO	5.75%	450	3.0	22	
Totals	11					6,000			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	26-Sep-20	Client:	PES	Personnel:	KO, JT, MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Mostly sunny, 58-65°

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 5,500 gallons of EVO solution into 12 injection screens on Roy Street and 8th Avenue

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B10	zone B1	9:20:00 AM	1:22:00 PM	EVO	5.75%	450	1.9	30	
IW-C11	zone C	9:20:00 AM	1:10:00 PM	EVO	5.75%	380	1.7	42	
IW-D11	zone D	9:20:00 AM	1:44:00 PM	EVO	9.67%	525	2.0	44	
IW-B19	zone B2	9:20:00 AM	10:36:00 AM	EVO	9.67%	150	2.0	10	
IW-D13	zone D	9:20:00 AM	10:30:00 AM	EVO	9.67%	100	1.4	10	
IW-A17	zone A	9:20:00 AM	2:17:00 PM	EVO	9.67%	625	2.1	12	Pressure gradually dropped to 3 PSI
IW-A17	zone A	2:44:00 PM	4:51:00 PM	EVO	9.67%	270	2.1	3	
IW-A16	zone A	10:48:00 AM	11:50:00 AM	EVO	9.67%	95	1.5	44	
IW-D12	zone D	10:51:00 AM	2:17:00 PM	EVO	9.67%	525	2.5	34	
IW-D12	zone D	2:44:00 PM	4:48:00 PM	EVO	9.67%	325	2.6	32	
IW-C19	zone C	12:03:00 PM	2:17:00 PM	EVO	5.75%	410	3.1	15	
IW-C19	zone C	2:44:00 PM	4:47:00 PM	EVO	5.75%	390	3.2	15	
IW-C09	zone C	1:21:00 PM	2:17:00 PM	EVO	5.75%	120	2.1	48	
IW-C09	zone C	2:44:00 PM	4:53:00 PM	EVO	5.75%	340	2.6	45	
IW-D10	zone D	1:33:00 PM	2:17:00 PM	EVO	9.67%	100	2.3	2	
IW-D10	zone D	2:44:00 PM	4:53:00 PM	EVO	9.67%	285	2.2	10	
IW-B11	zone B1	1:56:00 PM	2:17:00 PM	EVO	5.75%	55	2.6	28	
IW-B11	zone B1	2:44:00 PM	4:47:00 PM	EVO	5.75%	355	2.9	33	
Totals	12					5,500			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	27-Sep-20	**Client:**	PES	**Personnel:**	KO, KH, WP
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	Mostly sunny, 58-65°

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 5,500 gallons of EVO solution into 11 injection screens on Roy Street and 8th Avenue

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B11	zone B1	9:37:00 AM	1:34:00 PM	EVO	5.75%	490	2.1	34	
IW-C09	zone C	10:05:00 AM	2:52:00 PM	EVO	5.75%	440	1.5	55	
IW-D10	zone D	9:37:00 AM	3:10:00 PM	EVO	9.67%	515	1.5	40	
IW-D12	zone D	9:37:00 AM	10:17:00 AM	EVO	9.67%	50	1.3	22	
IW-C19	zone C	9:37:00 AM	10:11:00 AM	EVO	5.75%	100	2.9	3	
IW-A19	zone A	10:12:00 AM	5:36:00 PM	EVO	9.67%	1000	2.3	6	
IW-A11	zone A	10:30:00 AM	2:40:00 PM	EVO	9.67%	900	3.6	12	
IW-B12	zone B1	10:24:00 AM	5:27:00 PM	EVO	5.75%	650	1.5	36	
IW-A09	zone A	1:19:00 PM	5:13:00 PM	EVO	9.67%	485	2.1	28	
IW-B13	zone B1	3:00:00 PM	5:33:00 PM	EVO	5.75%	320	2.1	42	
IW-C20	zone C	1:50:00 PM	5:14:00 PM	EVO	5.75%	500	2.5	32	
Totals	11					5,450			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	28-Sep-20	Client:	PES	Personnel:	KO, KH, PH, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Sunny, 60-70°

Major Work Activities Performed:

-Received delivery of 18 totes of EVO and 51 bags of calcium carbonate
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 4,850 gallons of EVO solution into 11 injection screens on Roy Street and 8th Avenue

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C20	zone C	10:45:00 AM	3:30:00 PM	EVO	5.75%	550	1.9	24	
IW-B13	zone B1	10:45:00 AM	5:19:00 PM	EVO	5.75%	730	1.9	36	
IW-B12	zone B1	10:45:00 AM	2:16:00 PM	EVO	5.75%	400	1.9	20	
IW-A09	zone A	10:45:00 AM	5:29:00 PM	EVO	9.67%	850	2.1	16	
IW-A11	zone A	10:45:00 AM	3:58:00 PM	EVO	9.67%	550	1.8	10	
IW-A19	zone A	10:45:00 AM	1:22:00 PM	EVO	9.67%	450	2.9	0	
IW-B15	zone B1	2:28:00 PM	5:14:00 PM	EVO	5.75%	350	2.1	28	
IW-A16	zone A	1:30:00 PM	3:00:00 PM	EVO	9.67%	200	2.2	3	
IW-C21	zone C	3:45:00 PM	5:16:00 PM	EVO	5.75%	220	2.4	44	
IW-A12	zone A	4:14:00 PM	5:20:00 PM	EVO	9.67%	150	2.3	12	
IW-A18	zone A	3:08:00 PM	5:30:00 PM	EVO	9.67%	400	2.8	20	
Totals	11					4,850			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	29-Sep-20	Client:	PES	Personnel:	KO, KH, PH, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Sunny, 60-70°

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 4,750 gallons of EVO solution into 13 injection screens on Roy Street and 8th Avenue
-Surfacing was noted in the bottom 2 levels of the parking garage. Injections were stopped for the day at 17:15.

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C21	zone C	8:23:00 AM	5:15:00 PM	EVO	5.75%	750	1.4	42	
IW-B15	zone B1	8:22:00 AM	2:36:00 PM	EVO	5.75%	700	1.9	20	
IW-A14	zone A	9:54:00 AM	2:26:00 PM	EVO	9.67%	500	1.8	65	reduced flowrate and lowered pressure to 32-40 PSI
IW-A15	zone A	10:05:00 AM	2:27:00 PM	EVO	9.67%	600	2.3	26	
IW-D23	zone D	11:00:00 AM	2:36:00 PM	EVO	9.67%	500	2.3	36	
IW-B24	zone B1	10:02:00 AM	2:32:00 PM	EVO	5.75%	650	2.4	52	reduced flowrate and lowered pressure to 35 PSI
IW-D12	zone D	3:17:00 PM	4:38:00 PM	EVO	9.67%	150	1.9	42	
IW-D11	zone D	3:17:00 PM	5:02:00 PM	EVO	9.67%	150	1.4	40	
IW-C18	zone C	3:17:00 PM	5:15:00 PM	EVO	5.75%	325	2.8	12	
IW-D15	zone D	3:19:00 PM	5:07:00 PM	EVO	9.67%	150	1.4	28	
IW-C16	zone C	3:25:00 PM	4:32:00 PM	EVO	5.75%	150	2.2	12	
IW-D13	zone D	4:45:00 PM	5:15:00 PM	EVO	9.67%	75	2.5		
IW-C19	zone C	4:43:00 PM	5:15:00 PM	EVO	5.75%	50	1.6		
Totals	13					4,750			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	30-Sep-20	Client:	PES	Personnel:	KO, KH, PH, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Sunny, 60-74°

Major Work Activities Performed:

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,380 gallons of EVO solution into 13 injection screens on Roy Street including 4 street locations
-Collected approximately 100 gallons of water/EVO from the parking garage

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C21	zone C	8:34:00 AM	9:16:00 AM	EVO	5.75%	80	1.9	42	
IW-D13	zone D	8:34:00 AM	9:24:00 AM	EVO	9.67%	75	1.5	12	
IW-C14	zone C	9:14:00 AM	2:30:00 PM	EVO	5.75%	600	1.9	14	
IW-C15	zone C	9:14:00 AM	2:30:00 PM	EVO	5.75%	600	1.9	30	
IW-B23	zone B2	9:17:00 AM	2:30:00 PM	EVO	9.67%	400	1.3	70	Reduced flow rate and pressure dropped to 55 PSI
IW-B24	zone B1	9:45:00 AM	2:30:00 PM	EVO	5.75%	550	1.9	24	
IW-D15	zone D	9:45:00 AM	1:38:00 PM	EVO	9.67%	250	1.1	52	
IW-D20	zone D	9:45:00 AM	12:26:00 PM	EVO	9.67%	350	2.2	2	
IW-B20	zone B2	12:36:00 PM	3:40:00 PM	EVO	9.67%	175	1.0	15	
IW-D16	zone D	2:10:00 PM	3:40:00 PM	EVO	9.67%	150	1.7	15	
IW-D17	zone D	2:57:00 PM	3:40:00 PM	EVO	9.67%	75	1.7	22	
IW-C23	zone C	3:15:00 PM	3:40:00 PM	EVO	5.75%	50	2.0	10	
IW-C22	zone C	3:29:00 PM	3:40:00 PM	EVO	5.75%	25	2.3	10	
Totals	13					3,380			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	7-Oct-20	**Client:**	PES	**Personnel:**	KH, PH, MC, JT
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	Cloudy, low 60s °F

Major Work Activities Performed:

-Injection equipment set-up and restart activities
-Inspection of P3 level for seeps and depth to groundwater in Zone A wells
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 1,000 gallons of EVO solution into 4 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D15	zone D	2:10:00 PM	4:54:00 PM	EVO	9.67%	250	1.5	58	initial pressure at 24 psi; 40 psi at 100 gal; 58 psi at 250 gal
IW-C18	zone C	2:10:00 PM	4:55:00 PM	EVO	5.75%	250	1.5	14	initial pressure at 0 psi; 14 psi at 100 gal
IW-C23	zone C	2:10:00 PM	5:01:00 PM	EVO	5.75%	250	1.5	12	initial pressure at 12 psi; 8 psi at 250 gal
IW-D20	zone D	2:10:00 PM	4:36:00 PM	EVO	9.67%	250	1.7	0	
Totals	4					1,000			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	8-Oct-20	Client:	PES	Personnel:	KH, PH, MC, JT
Project #:	901312	Location:	Seattle, WA	Weather:	Cloudy, 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps and depth to groundwater in Zone A wells
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 1,800 gallons of EVO solution into 10 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C18	zone C	7:28:00 AM	10:42:00 AM	EVO	5.75%	250	1.3	18	
IW-C23	zone C	7:28:00 AM	9:54:00 AM	EVO	5.75%	250	1.7	10	
IW-D15	zone D	7:28:00 AM	9:18:00 AM	EVO	9.67%	175	1.6	42	initial pressure at 40 psi; 42 psi at 175 gal; elevated GW at A16 at 175 gal
IW-D20	zone D	7:40:00 AM	10:27:00 AM	EVO	9.67%	250	1.5	0	
IW-D10	zone D	10:04:00 AM	10:32:00 AM	EVO	9.67%	25	0.9	38	initial pressure at 26 psi; 42 psi at 25 gal
IW-C22	zone C	10:17:00 AM	3:03:00 PM	EVO	5.75%	250	0.9	26	
IW-D09	zone D	11:12:00 AM	1:03:00 PM	EVO	9.67%	250	2.3	6	initial pressure at 0 psi; 6 psi at 100 gal
IW-C19	zone C	11:20:00 AM	12:34:00 PM	EVO	5.75%	100	1.4	0	
IW-C10	zone C	1:21:00 PM	3:00:00 PM	EVO	5.75%	50	0.5	62	initial pressure at 32 psi; 54 psi at 25 gal; pump off from 1346 to 1435 at 25 gal; 62 psi at 50 gal
IW-C17	zone C	3:10:00 PM	4:47:00 PM	EVO	5.75%	100	1.0	46	initial pressure at 28 ps; 46 psi at 100 gal
IW-D21	zone D	3:34:00 PM	4:46:00 PM	EVO	9.67%	100	1.4	0	
Totals	10					1,800			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	9-Oct-20	Client:	PES	Personnel:	KH, PH, MC, JT
Project #:	901312	Location:	Seattle, WA	Weather:	Cloudy, 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps and depth to groundwater in Zone A wells

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 2,455 gallons of EVO solution into 16 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C23	zone C	8:24:00 AM	11:08:00 AM	EVO	5.75%	250	1.5	12	
IW-D21	zone D	8:24:00 AM	10:56:00 AM	EVO	9.67%	175	1.2	50	initial pressure at 8 psi; 36 psi at 100 gal; 50 psi at 175 gal
IW-C17	zone C	8:24:00 AM	9:39:00 AM	EVO	5.75%	50	0.7	44	initial pressure at 36 psi; 44 psi at 50 gal
IW-D15	zone D	8:24:00 AM	11:01:00 AM	EVO	9.67%	225	1.4	32	initial pressure at 28 psi; 32 psi at 100 gal
IW-C18	zone C	10:08:00 AM	12:51:00 PM	EVO	5.75%	225	1.4	16	
IW-C22	zone C	11:09:00 AM	11:32:00 AM	EVO	5.75%	50	2.2	50	initial pressure at 36 psi; 50 psi at 50 gal
IW-C12	zone C	11:33:00 AM	1:25:00 PM	EVO	5.75%	150	1.3	42	initial pressure at 36 psi; 42 psi at 150 gal
IW-D20	zone D	11:33:00 AM	2:07:00 PM	EVO	9.67%	200	1.3	0	
IW-D22	zone D	11:51:00 AM	4:31:00 PM	EVO	9.67%	500	1.8	0	
IW-D17	zone D	1:06:00 PM	1:12:00 PM	EVO	9.67%	0	0.0	82	82 psi at 5 gal of water
IW-C11	zone C	1:24:00 PM	3:33:00 PM	EVO	5.75%	125	1.0	44	initial pressure at 14 psi; 44 psi at 125 gal
IW-B19	zone B2	2:12:00 PM	3:24:00 PM	EVO	9.67%	150	2.1	0	
IW-B17	zone B1	2:47:00 PM	4:14:00 PM	EVO	5.75%	150	1.7	28	
IW-D01	zone D	3:12:00 PM	4:52:00 PM	EVO	9.67%	140	1.4	32	initial pressure at 10 psi; 32 psi at 100 gal
IW-B10	zone B1	3:46:00 PM	4:52:00 PM	EVO	5.75%	60	0.9	24	initial pressure at 12 psi; 24 psi at 50 gal
IW-B16	zone B1	4:11:00 PM	4:22:00 PM	EVO	5.75%	5	0.5	44	initial pressure at 30 psi; 44 psi at 5 gal
Totals	10					2,455			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	10-Oct-20	Client:	PES	Personnel:	KH, PH, MC, JT
Project #:	901312	Location:	Seattle, WA	Weather:	Partly Cloudy, 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps and depth to groundwater in Zone A wells
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 1,950 gallons of EVO solution into 18 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C23	zone C	10:16:00 AM	12:52:00 PM	EVO	5.75%	250	1.6	32	initial pressure at 24 psi; 32 psi at 100 gal
IW-B10	zone B1	10:16:00 AM	11:12:00 AM	EVO	5.75%	90	1.6	26	
IW-D06	zone D	10:35:00 AM	11:06:00 AM	EVO	9.67%	25	0.8	64	initial pressure at 38 psi; 64 psi at 25 gal
IW-C05	zone C	10:16:00 AM	11:06:00 AM	EVO	5.75%	50	1.0	52	initial pressure at 28 psi; 52 psi at 50 gal
IW-D02	zone D	10:16:00 AM	11:15:00 AM	EVO	9.67%	100	1.7	16	injection stopped due to elevated groundwater at well IW-C2
IW-D21	zone D	11:34:00 AM	1:04:00 PM	EVO	5.75%	75	0.8	52	initial pressure at 26 psi; 52 psi at 75 gal
IW-B11	zone B1	11:51:00 AM	1:50:00 PM	EVO	5.75%	150	1.3	12	
IW-C06	zone C	12:20:00 PM	1:16:00 PM	EVO	5.75%	100	1.8	56	initial pressure at 26 psi; 56 psi at 100 gal
IW-D04	zone D	12:43:00 PM	1:19:00 PM	EVO	9.67%	40	1.1	52	initial pressure at 30 psi; 52 psi at 40 gal
IW-D07	zone D	12:52:00 PM	4:11:00 PM	EVO	9.67%	250	1.3	32	initial pressure at 4 psi; 32 psi at 150 gal
IW-D09	zone D	1:46:00 PM	5:38:00 PM	EVO	9.67%	450	1.9	26	initial pressure at 0 psi; 26 psi at 450 gal
IW-D22	zone D	2:26:00 PM	4:22:00 PM	EVO	9.67%	250	2.2	30	initial pressure at 14 psi; 30 psi at 250 gal
IW-C11	zone C	2:33:00 PM	3:03:00 PM	EVO	5.75%	25	0.8	44	initial pressure at 18 psi; 44 psi at 25 gal
IW-C04	zone C	3:53:00 PM	4:03:00 PM	EVO	5.75%	10	1.0	80	
IW-C03	zone C	4:14:00 PM	4:18:00 PM	EVO	5.75%	5	1.3	80	
IW-D03	zone D	4:55:00 PM	5:38:00 PM	EVO	9.67%	50	1.2	22	initial pressure at 14 psi; 22 psi at 50 gal
IW-C22	zone C	4:55:00 PM	5:17:00 PM	EVO	5.75%	25	1.1	52	initial pressure at 30 psi; 52 psi at 25 gal
IW-C07	zone C	5:02:00 PM	5:10:00 PM	EVO	5.75%	0	0.8	52	10 gal water flush only; 52 psi after 10 gal of water injected
Totals	10					1,945			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	11-Oct-20	Client:	PES	Personnel:	KH, KO, MC, JT, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Cloudy, Rain, Low 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps and depth to groundwater in Zone A wells
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 1,610 gallons of EVO solution into 9 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D22	zone D	10:15:00 AM	2:39:00 PM	EVO	9.67%	300	1.1	14	
IW-D05	zone D	10:15:00 AM	4:38:00 PM	EVO	9.67%	450	1.2	30	initial pressure at 24 psi; 30 psi at 400 gal
IW-D07	zone D	10:15:00 AM	1:53:00 PM	EVO	9.67%	225	1.0	50	initial pressure at 24 psi; 50 psi at 225 gal
IW-D02	zone D	10:15:00 AM	1:53:00 PM	EVO	9.67%	225	1.0	48	initial pressure at 30 psi; 48 psi at 225 gal
IW-C01	zone C	1:38:00 PM	1:48:00 PM	EVO	5.75%	0	0.0	54	10 gal water flush only; 54 psi after 10 gal of water injected
IW-C10	zone C	2:01:00 PM	4:38:00 PM	EVO	5.75%	200	1.3	30	initial pressure at 28 psi; 30 psi at 100 gal
IW-C22	zone C	2:50:00 PM	4:31:00 PM	EVO	5.75%	60	0.6	54	initial pressure at 10 psi; 38 psi at 25 gal; 54 psi at 150 gal
IW-D03	zone D	2:55:00 PM	4:38:00 PM	EVO	9.67%	150	1.5	50	initial pressure at 26 psi; 36 psi at 100 gal; 50 psi at 150 gal
IW-C08	zone C	2:55:00 PM	3:05:00 PM	EVO	5.75%	0	0.0	70	10 gal water flush only; 70 psi after 10 gal of water injected
Totals	10					1,610			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	12-Oct-20	Client:	PES	Personnel:	KO, JT,MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	AM showers, Low 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps and depth to groundwater in Zone A wells
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 1,225 gallons of EVO solution, 1,000 gallons of anoxic water and 1.7 liters of 10x concentrated Sirem KB-1 DHC into 16 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C22	zone C	8:46:00 AM	3:47:00 PM	EVO	5.75%	325	0.8	42	
IW-D21	zone D	8:46:00 AM	4:05:00 PM	EVO	9.67%	375	0.9	38	
IW-C13	zone C	10:45:00 AM	11:25:00 AM	EVO	5.75%	50	1.3	20	Surfaced up well casing
IW-C16	zone C	11:51:00 AM	12:15:00 PM	AW	5.75%	30	1.3	6	
IW-C16	zone C	12:15:00 PM	12:16:00 PM	DHC		0.15	0.1		
IW-C16	zone C	12:16:00 PM	1:40:00 PM	AW	5.75%	70	0.8	6	Location complete
IW-C18	zone C	11:51:00 AM	12:21:00 PM	AW	5.75%	30	1.0	10	
IW-C18	zone C	12:21:00 PM	12:22:00 PM	DHC		0.15	0.1		
IW-C18	zone C	12:22:00 PM	1:15:00 PM	AW	5.75%	70	1.3	10	Location complete
IW-D13	zone D	1:17:00 PM	1:43:00 PM	AW	9.67%	30	1.2	2	
IW-D13	zone D	1:43:00 PM	1:48:00 PM	DHC		0.20	0.0		
IW-D13	zone D	1:48:00 PM	2:46:00 PM	AW	9.67%	70	1.2	2	Location complete
IW-D16	zone D	1:18:00 PM	1:40:00 PM	AW	9.67%	30	1.4	32	
IW-D16	zone D	1:40:00 PM	1:42:00 PM	DHC		0.20	0.1		
IW-D16	zone D	1:42:00 PM	2:44:00 PM	AW	9.67%	70	1.1	40	Location complete
IW-C17	zone C	2:12:00 PM	2:49:00 PM	AW	5.75%	30	0.8	28	
IW-C17	zone C	1:40:00 PM	1:42:00 PM	DHC		0.15	0.1		
IW-C17	zone C	2:53:00 PM	4:16:00 PM	AW	5.75%	70	0.8	34	Location complete
IW-C19	zone C	3:01:00 PM	3:33:00 PM	AW	5.75%	30	0.9	6	
IW-C19	zone C	3:33:00 PM	3:36:00 PM	DHC		0.15	0.1		
IW-C19	zone C	3:36:00 PM	4:36:00 PM	AW	5.75%	70	1.2	6	Location complete
IW-C12	zone C	3:00:00 PM	3:21:00 PM	AW	5.75%	30	1.4	26	
IW-C12	zone C	3:21:00 PM	3:23:00 PM	DHC		0.15	0.1		
IW-C12	zone C	3:23:00 PM	4:26:00 PM	AW	5.75%	70	1.1	32	Location complete
IW-D22	zone D	4:20:00 PM	4:52:00 PM	AW	9.67%	30	0.9	10	
IW-D22	zone D	4:52:00 PM	4:54:00 PM	DHC		0.20	0.1		
IW-D22	zone D	4:54:00 PM	5:49:00 PM	AW	9.67%	70	1.3	12	Location complete
IW-D03	zone D	3:40:00 PM	5:44:00 PM	EVO	9.67%	175	1.4	36	
IW-C05	zone C	3:40:00 PM	5:42:00 PM	EVO	5.75%	150	1.2	32	
IW-D07	zone D	4:01:00 PM	5:49:00 PM	EVO	9.67%	150	1.4	20	
IW-D12	zone D	4:40:00 PM	4:59:00 PM	AW	9.67%	30	1.6	20	
IW-D12	zone D	4:59:00 PM	5:01:00 PM	DHC		0.20	0.1		
IW-D12	zone D	5:01:00 PM	5:55:00 PM	AW	9.67%	70	1.3	20	Location complete
IW-C20	zone C	4:44:00 PM	5:07:00 PM	AW	5.75%	30	1.3	6	
IW-C20	zone C	5:07:00 PM	5:09:00 PM	DHC		0.15	0.1		
IW-C20	zone C	5:09:00 PM	5:55:00 PM	AW	5.75%	70	1.5	6	Location complete
Totals	16					2,227			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	**Appendix C:** **2020 Treatment Program Daily Report**	ISOTEC

Date:	13-Oct-20	**Client:**	PES	**Personnel:**	KO, JT,MC, WP
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	AM showers, windy, low 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water

- Injected 2,175 gallons of EVO solution, 600 gallons of anoxic water and 0.9 liters of 10x concentrated Sirem KB-1 DHC into 16 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C22	zone C	8:52:00 AM	1:47:00 PM	EVO	5.75%	350	1.2	32	EVO complete
IW-D21	zone D	8:52:00 AM	5:05:00 PM	EVO	9.67%	325	0.7	42	EVO complete
IW-D20	zone D	8:58:00 AM	9:27:00 AM	AW	9.67%	30	1.0	10	
IW-D20	zone D	9:27:00 AM	9:31:00 AM	DHC		0.15	0.0		
IW-D20	zone D	9:31:00 AM	10:17:00 AM	AW	9.67%	70	1.5	10	Location complete
IW-D15	zone D	9:10:00 AM	9:32:00 AM	AW	9.67%	30	1.4	36	
IW-D15	zone D	9:32:00 AM	9:35:00 AM	DHC		0.15	0.0		
IW-D15	zone D	9:35:00 AM	10:56:00 AM	AW	9.67%	70	0.9	40	Location complete
IW-C03	zone C	8:55:00 AM	2:57:00 PM	EVO	5.75%	250	0.7	30	
IW-D04	zone D	8:55:00 AM	11:31:00 AM	EVO	9.67%	250	1.6	28	
IW-C23	zone C	10:48:00 AM	11:16:00 AM	AW	5.75%	30	1.1	28	
IW-C23	zone C	11:16:00 AM	11:18:00 AM	DHC		0.15	0.1		
IW-C23	zone C	11:18:00 AM	12:25:00 PM	AW	5.75%	70	1.0	30	Location complete
IW-C06	zone C	11:43:00 AM	5:12:00 PM	EVO	5.75%	200	0.6	56	
IW-C04	zone C	3:07:00 PM	5:25:00 PM	EVO	5.75%	100	0.7	52	
IW-C11	zone C	11:40:00 AM	12:22:00 PM	AW	5.75%	30	0.7	33	
IW-C11	zone C	12:22:00 PM	12:26:00 PM	DHC		0.15	0.0		
IW-C11	zone C	12:26:00 PM	1:53:00 PM	AW	5.75%	70	0.8	44	Location complete
IW-D07	zone D	12:35:00 PM	4:20:00 PM	EVO	9.67%	300	1.3	34	
IW-D11	zone D	1:55:00 PM	2:34:00 PM	AW	9.67%	40	1.0	10	
IW-D11	zone D	2:34:00 PM	2:37:00 PM	DHC		0.15	0.0		
IW-D11	zone D	2:37:00 PM	3:56:00 PM	AW	9.67%	60	0.8	10	Location complete
IW-D09	zone D	2:22:00 PM	5:35:00 PM	EVO	9.67%	250	1.3	22	
IW-D17	zone D	2:35:00 PM	3:39:00 PM	EVO	9.67%	75	1.2	30	EVO complete
IW-C21	zone C	4:17:00 PM	4:42:00 PM	AW	5.75%	30	1.2	20	
IW-C21	zone C	4:42:00 PM	4:44:00 PM	DHC		0.15	0.1		
IW-C21	zone C	4:44:00 PM	5:54:00 PM	AW	5.75%	70	1.0	26	Location complete
IW-D10	zone D	4:26:00 PM	5:37:00 PM	EVO	9.67%	75	1.1	34	
Totals	16					2,776			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	14-Oct-20	Client:	PES	Personnel:	KO, JT,MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Mostly sunny, mid 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water

- Injected 2,175 gallons of EVO solution, 600 gallons of anoxic water and 0.9 liters of 10x concentrated Sirem KB-1 DHC into 14 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D23	zone D	9:58:00 AM	1:45:00 PM	EVO	9.67%	320	1.4	52	Upwelling in B23
IW-C14	zone C	9:23:00 AM	1:52:00 PM	EVO	5.75%	450	1.7	12	EVO complete
IW-D07	zone D	9:05:00 AM	10:43:00 AM	EVO	9.67%	125	1.3	38	
IW-D09	zone D	9:05:00 AM	11:39:00 AM	EVO	9.67%	150	1.0	22	
IW-C06	zone C	9:35:00 AM	4:59:00 PM	EVO	5.75%	250	0.6	56	
IW-D04	zone D	10:41:00 AM	5:05:00 PM	EVO	9.67%	275	0.7	52	Pressure was 32 PSI for first ~150 gallons injected
IW-C08	zone C	10:50:00 AM	4:10:00 PM	EVO	5.75%	275	0.9	60	reduced flowrate, pressure reduced to 54 PSI
IW-D10	zone D	9:57:00 AM	10:36:00 AM	EVO	9.67%	50	1.3	4	EVO complete
IW-C09	zone C	11:45:00 AM	2:42:00 PM	EVO	5.75%	150	0.8	38	EVO complete
IW-C15	zone C	1:55:00 PM	2:32:00 PM	EVO	5.75%	50	1.4	28	
IW-C22	zone C	3:25:00 PM	3:57:00 PM	AW	5.75%	30	0.9	22	
IW-C22	zone C	3:57:00 PM	4:00:00 PM	DHC		0.15	0.1		
IW-C22	zone C	4:00:00 PM		AW	5.75%	70	-0.1	22	Location complete
IW-D10	zone D	3:25:00 PM	4:00:00 PM	AW	9.67%	30	0.9	22	
IW-D10	zone D	4:00:00 PM	4:02:00 PM	DHC		0.15	0.1		
IW-D10	zone D	4:02:00 PM		AW	9.67%	70	-0.1	22	Location complete
IW-D09	zone D	3:25:00 PM	3:45:00 PM	AW	9.67%	30	1.5	20	
IW-D09	zone D	3:45:00 PM	3:47:00 PM	DHC		0.15	0.1		
IW-D09	zone D	3:47:00 PM	5:01:00 PM	AW	9.67%	70	0.9	24	Location complete
IW-D02	zone D	4:15:00 PM	5:23:00 PM	EVO	9.67%	100	1.5	6	Upwelling in C02
Totals	14					2,495			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	15-Oct-20	Client:	PES	Personnel:	KO, JT,MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, low to mid 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water

- Injected 2,680 gallons of EVO solution, 430 gallons of anoxic water and 0.6 liters of 10x concentrated Sirem KB-1 DHC into 12 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D24	zone D	9:16:00 AM	2:48:00 PM	EVO	9.67%	750	2.3	4	
IW-D23	zone D	9:30:00 AM	1:56:00 PM	EVO	9.67%	230	0.9	30	EVO complete
IW-D23	zone D	2:00:00 PM	2:24:00 PM	AW	9.67%	30	1.3	30	
IW-D04	zone D	9:06:00 AM	1:20:00 PM	EVO	9.67%	250	1.0	32	
IW-D06	zone D	9:06:00 AM	1:13:00 PM	EVO	9.67%	250	1.0	38	
IW-C08	zone C	9:11:00 AM	12:50:00 PM	EVO	5.75%	250	1.1	50	
IW-C10	zone C	1:08:00 PM	5:19:00 PM	EVO	5.75%	300	1.2	38	
IW-D03	zone D	1:48:00 PM	5:37:00 PM	EVO	9.67%	300	1.3	36	
IW-D05	zone D	1:48:00 PM	5:35:00 PM	EVO	9.67%	350	1.5	4	
IW-D21	zone D	2:30:00 PM	3:00:00 PM	AW	9.67%	30	1.0	26	
IW-D21	zone D	3:00:00 PM	3:04:00 PM	DHC		0.15	0.0		
IW-D21	zone D	3:04:00 PM	3:54:00 PM	AW	9.67%	70	1.4	36	Location complete
IW-D17	zone D	2:04:00 PM	2:29:00 PM	AW	9.67%	30	1.2	20	
IW-D17	zone D	2:29:00 PM	2:31:00 PM	DHC		0.15	0.1		
IW-D17	zone D	2:31:00 PM	3:29:00 PM	AW	9.67%	70	1.2	24	Location complete
IW-C09	zone C	3:25:00 PM	3:45:00 PM	AW	5.75%	30	1.5	22	
IW-C09	zone C	3:45:00 PM	3:48:00 PM	DHC		0.15	0.1		
IW-C09	zone C	3:48:00 PM	5:00:00 PM	AW	5.75%	70	1.0	34	Location complete
IW-B19	zone B2	4:33:00 PM	4:58:00 PM	AW	9.67%	35	1.4	2	
IW-B19	zone B2	4:58:00 PM	5:00:00 PM	DHC		0.15	0.1		
IW-B19	zone B2	5:00:00 PM	5:42:00 PM	AW	9.67%	65	1.5	2	Location complete
Totals	12					3,111			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	16-Oct-20	Client:	PES	Personnel:	KO, JT,MC, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Overcast, low 60s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water
- Injected 2,200 gallons of EVO solution, 950 gallons of anoxic water and 1.5 liters of 10x concentrated Sirem KB-1 DHC into 16 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D23	zone D	9:12:00 AM	9:23:00 AM	AW	9.67%	10	0.9	24	
IW-D23	zone D	9:23:00 AM	9:28:00 AM	DHC		0.15	0.0		
IW-D23	zone D	9:28:00 AM	10:18:00 AM	AW	9.67%	60	1.2	30	Location complete
IW-D24	zone D	9:08:00 AM	11:33:00 AM	EVO	9.67%	300	2.1	4	EVO complete
IW-D24	zone D	11:33:00 AM	11:48:00 AM	AW	9.67%	30	2.0	4	
IW-D24	zone D	11:48:00 AM	11:50:00 AM	DHC		0.15	0.1		
IW-D24	zone D	11:50:00 AM	12:33:00 PM	AW	9.67%	70	1.6	4	Location complete
IW-C14	zone C	12:37:00 PM	1:05:00 PM	AW	5.75%	35	1.3	14	
IW-C14	zone C	1:05:00 PM	1:07:00 PM	DHC		0.15	0.1		
IW-C14	zone C	1:07:00 PM	1:45:00 PM	AW	5.75%	65	1.7	14	Location complete
IW-B24	zone B1	1:40:00 PM	2:04:00 PM	AW	5.75%	30	1.3	12	
IW-B24	zone B1	2:04:00 PM	2:06:00 PM	DHC		0.15	0.1		
IW-B24	zone B1	2:06:00 PM	2:49:00 PM	AW	5.75%	50	1.2	18	Location complete
IW-C06	zone C	9:16:00 AM	3:30:00 PM	EVO	5.75%	300	0.8	26	
IW-C08	zone C	8:52:00 AM	1:07:00 PM	EVO	5.75%	275	1.1	44	
IW-D03	zone D	8:49:00 AM	3:15:00 PM	EVO	9.67%	375	1.0	38	
IW-B10	zone B1	9:12:00 AM	9:48:00 AM	AW	5.75%	35	1.0	20	
IW-B10	zone B1	9:48:00 AM	9:52:00 AM	DHC		0.15	0.0		
IW-B10	zone B1	9:52:00 AM	10:59:00 AM	AW	5.75%	65	1.0	20	Location complete
IW-B23	zone B2	10:50:00 AM	12:12:00 PM	EVO	9.67%	100	1.2	56	
IW-B23	zone B2	12:12:00 PM	12:40:00 PM	AW	9.67%	30	1.1	56	
IW-B23	zone B2	12:40:00 PM	12:44:00 PM	DHC		0.15	0.0		
IW-B23	zone B2	12:44:00 PM	1:51:00 PM	AW	9.67%	70	1.0	56	
IW-B11	zone B1	11:40:00 AM	12:15:00 PM	AW	5.75%	30	0.9	12	
IW-B11	zone B1	12:15:00 PM	12:17:00 PM	DHC		0.15	0.1		
IW-B11	zone B1	12:17:00 PM	1:10:00 PM	AW	5.75%	70	1.3	12	Location complete
IW-C05	zone C	1:29:00 PM	5:34:00 PM	EVO	5.75%	250	1.0	22	
IW-B12	zone B1	1:23:00 PM	1:43:00 PM	AW	9.67%	30	1.5	20	
IW-B12	zone B1	1:43:00 PM	1:45:00 PM	DHC		0.15	0.1		
IW-B12	zone B1	1:45:00 PM	2:51:00 PM	AW	9.67%	70	1.1	20	Location complete
IW-B22	zone B2	2:09:00 PM	5:06:00 PM	EVO	9.67%	300	1.7	38	
IW-B13	zone B1	2:58:00 PM	3:31:00 PM	AW	5.75%	30	0.9	28	
IW-B13	zone B1	3:31:00 PM	3:34:00 PM	DHC		0.15	0.1		
IW-B13	zone B1	3:34:00 PM	4:17:00 PM	AW	5.75%	70	1.6	28	Location complete
IW-D02	zone D	3:35:00 PM	5:31:00 PM	EVO	9.67%	150	1.3	24	
IW-D06	zone D	3:36:00 PM	5:36:00 PM	EVO	9.67%	150	1.3	54	
IW-B15	zone B1	4:25:00 PM	4:52:00 PM	AW	5.75%	30	1.1	16	
IW-B15	zone B1	4:52:00 PM	4:54:00 PM	DHC		0.15	0.1		
IW-B15	zone B1	4:54:00 PM	5:40:00 PM	AW	5.75%	70	1.5	16	Location complete
Totals	16					3,152			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	17-Oct-20	Client:	PES	Personnel:	KO, JT, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Overcast, mid to high 50s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water

- Injected 2,300 gallons of EVO solution, 700 gallons of anoxic water and 1.4 liters of 10x concentrated Sirem KB-1 DHC into 18 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B21	zone B2	9:15:00 AM	11:10:00 AM	EVO	9.67%	250	2.2	2	
IW-D04	zone D	9:19:00 AM	11:55:00 AM	EVO	9.67%	235	1.5	30	EVO complete
IW-C06	zone C	9:25:00 AM	3:11:00 PM	EVO	5.75%	200	0.6	60	EVO complete
IW-C08	zone C	9:19:00 AM	12:11:00 PM	EVO	5.75%	250	1.5	42	EVO complete
IW-C10	zone C	9:20:00 AM	2:03:00 PM	EVO	5.75%	250	0.9	50	
IW-A19	zone A	9:25:00 AM	9:50:00 AM	AW	9.67%	35	1.4	2	
IW-A19	zone A	9:50:00 AM	9:52:00 AM	DHC		0.20	0.1		
IW-A19	zone A	9:52:00 AM	10:27:00 AM	AW	9.67%	65	1.9	2	Location complete
IW-B17	zone B1	10:29:00 AM	10:50:00 AM	AW	5.75%	30	1.4	24	
IW-B17	zone B1	10:50:00 AM	10:52:00 AM	DHC		0.20	0.1		
IW-B17	zone B1	10:52:00 AM	11:31:00 AM	AW	5.75%	70	1.8	30	Location complete
IW-B20	zone B2	11:12:00 AM	1:38:00 PM	EVO	9.67%	250	1.7	10	
IW-A17	zone A	11:37:00 AM	12:03:00 PM	AW	9.67%	30	1.2	2	
IW-A17	zone A	12:03:00 PM	12:05:00 PM	DHC		0.20	0.1		
IW-A17	zone A	12:05:00 PM	12:47:00 PM	AW	9.67%	70	1.7	2	
IW-D02	zone D	12:02:00 PM	2:46:00 PM	EVO	9.67%	250	1.5	10	
IW-D06	zone D	12:26:00 PM	5:27:00 PM	EVO	9.67%	250	0.8	56	
IW-A16	zone A	12:58:00 PM	1:35:00 PM	AW	9.67%	35	0.9	10	
IW-A16	zone A	1:35:00 PM	1:37:00 PM	DHC		0.20	0.1		
IW-A16	zone A	1:37:00 PM	2:12:00 PM	AW	9.67%	65	1.9	16	Location complete
IW-B16	zone B1	1:56:00 PM	4:17:00 PM	EVO	5.75%	145	1.0	50	
IW-A11	zone A	2:06:00 PM	2:32:00 PM	AW	9.67%	30	1.2	14	
IW-A11	zone A	2:32:00 PM	2:34:00 PM	DHC		0.20	0.1		
IW-A11	zone A	2:34:00 PM	3:32:00 PM	AW	9.67%	70	1.2	14	Location complete
IW-A13	zone A	2:23:00 PM	2:45:00 PM	AW	9.67%	30	1.4	8	
IW-A13	zone A	2:45:00 PM	2:47:00 PM	DHC		0.20	0.1		
IW-A13	zone A	2:47:00 PM	3:38:00 PM	AW	9.67%	70	1.4	8	
IW-D05	zone D	3:09:00 PM	5:30:00 PM	EVO	9.67%	150	1.1	36	
IW-B18	zone B2	4:09:00 PM	5:30:00 PM	EVO	9.67%	75	0.9	60	
IW-A12	zone A	4:04:00 PM	4:30:00 PM	AW	9.67%	30	1.2	16	
IW-A12	zone A	4:30:00 PM	4:33:00 PM	DHC		0.20	0.1		
IW-A12	zone A	4:33:00 PM	5:17:00 PM	AW	9.67%	70	1.6	16	Location complete
Totals	18					3,006			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Appendix C: 2020 Treatment Program Daily Report	ISOTEC

Date:	18-Oct-20	Client:	PES	Personnel:	KO, JT, WP
Project #:	901312	Location:	Seattle, WA	Weather:	Rain, mid to high 50s °F

Major Work Activities Performed:

-Inspection of P3 level for seeps

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO, and anoxic water

- Injected 230 gallons of EVO solution, 900 gallons of anoxic water and 1.35 liters of 10x concentrated Sirem KB-1 DHC into 10 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D02	zone D	9:12:00 AM	10:45:00 AM	EVO	9.67%	85	0.9	24	
IW-D02	zone D	1:07:00 PM	1:33:00 PM	AW	9.67%	30	1.2	20	
IW-D02	zone D	1:33:00 PM	1:36:00 PM	DHC		0.15	0.1		
IW-D02	zone D	1:36:00 PM	2:29:00 PM	AW	9.67%	70	1.3	20	
IW-D05	zone D	9:12:00 AM	10:40:00 AM	EVO	9.67%	100	1.1	42	EVO complete
IW-D05	zone D	10:45:00 AM	11:08:00 AM	AW	9.67%	30	1.3	42	
IW-D05	zone D	11:08:00 AM	11:10:00 AM	DHC		0.15	0.1		
IW-D05	zone D	11:10:00 AM	12:37:00 PM	AW	9.67%	70	0.8	42	Location complete
IW-B16	zone B1	9:12:00 AM	9:52:00 AM	AW	5.75%	30	0.7	50	
IW-B16	zone B1	9:52:00 AM	9:55:00 AM	DHC		0.15	0.1		
IW-B16	zone B1	9:55:00 AM	10:39:00 AM	AW	5.75%	70	1.6	50	
IW-B20	zone B2	9:15:00 AM	10:15:00 AM	EVO	9.67%	45	0.8		
IW-C06	zone C	10:30:00 AM	10:58:00 AM	AW	5.75%	30	1.1	50	
IW-C06	zone C	10:58:00 AM	11:02:00 AM	DHC		0.15	0.0		
IW-C06	zone C	11:02:00 AM	12:06:00 PM	AW	5.75%	70	1.1	50	Location complete
IW-C08	zone C	9:12:00 AM	9:36:00 AM	AW	5.75%	30	1.3	34	
IW-C08	zone C	9:36:00 AM	9:39:00 AM	DHC		0.15	0.0		
IW-C08	zone C	9:39:00 AM	10:27:00 AM	AW	5.75%	70	1.5	34	Location complete
IW-C10	zone C	9:10:00 AM	9:33:00 AM	AW	5.75%	30	1.3	32	
IW-C10	zone C	9:33:00 AM	9:35:00 AM	DHC		0.15	0.1		
IW-C10	zone C	9:35:00 AM	11:05:00 AM	AW	5.75%	70	0.8	52	
IW-D04	zone D	11:01:00 AM	11:43:00 AM	AW	9.67%	35	0.8	36	
IW-D04	zone D	11:43:00 AM	11:45:00 AM	DHC		0.15	0.1		
IW-D04	zone D	11:45:00 AM	1:03:00 PM	AW	9.67%	65	0.8	40	
IW-D07	zone D	10:44:00 AM	11:10:00 AM	AW	9.67%	30	1.2	34	
IW-D07	zone D	11:10:00 AM	11:13:00 AM	DHC		0.15	0.0		
IW-D07	zone D	11:13:00 AM	12:11:00 PM	AW	9.67%	70	1.2	34	
IW-D03	zone D	11:40:00 AM	12:04:00 PM	AW	9.67%	30	1.3	32	
IW-D03	zone D	12:04:00 PM	12:07:00 PM	DHC		0.15	0.1		
IW-D03	zone D	12:07:00 PM	1:09:00 PM	AW	9.67%	70	1.1	40	
Totals	10					1,131			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

ATTACHMENT D

2021 INJECTION SUMMARY TABLE

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/16/21	IW-A17	zone A	15:14	16:41	EVO	0.0967	85	1.0	14	Location complete
02/16/21	IW-A18	zone A	15:22	18:56	EVO	0.0967	200	0.9	50	
02/16/21	IW-B08	zone B1	15:38	16:05	EVO	0.0575	15	0.6	80	Stopped due to high pressure
02/16/21	IW-B18	zone B2	16:48	18:56	EVO	0.0967	175	1.4	38	
02/16/21	IW-D08	zone D	16:10	18:56	EVO	0.0967	200	1.2	40	
02/16/21	IW-B22	zone B2	17:46	18:56	EVO	0.0967	75	1.1	40	
02/17/21	IW-A18	zone A	15:39	17:47	EVO	0.0967	175	1.4	66	Stopped due to high pressure
02/17/21	IW-B18	zone B2	15:39	19:27	EVO	0.0967	250	1.1	54	
02/17/21	IW-B07	zone B1	15:39	20:10	EVO	0.0575	250	0.9	28	
02/17/21	IW-A23	zone A	15:39	19:20	EVO	0.0967	250	1.1	14	
02/17/21	IW-B05	zone B1	16:20	18:40	EVO	0.0575	250	1.8	30	
02/17/21	IW-B04	zone B1	16:54	20:41	EVO	0.0575	250	1.1	26	
02/17/21	IW-A05	zone A	18:47	22:05	EVO	0.0967	250	1.3	14	
02/17/21	IW-B09	zone B1	18:14	20:36	EVO	0.0575	250	1.8	40	
02/17/21	IW-B22	zone B2	19:45	22:05	EVO	0.0967	225	1.6	24	
02/17/21	IW-A21	zone A	19:45	22:08	EVO	0.0967	225	1.6	48	
02/17/21	IW-A08	zone A	20:20	22:08	EVO	0.0967	225	2.1	40	
02/17/21	IW-B08	zone B1	20:50	22:06	EVO	0.0575	100	1.3	56	
02/17/21	IW-A04	zone A	20:47	22:06	EVO	0.0967	125	1.6	10	
02/18/21	IW-A21	zone A	10:59	14:14	EVO	0.0967	250	1.3	54	
02/18/21	IW-B22	zone B2	10:59	14:18	EVO	0.0967	250	1.3	62	
02/18/21	IW-B09	zone B1	11:20	15:23	EVO	0.0575	250	1.0	38	
02/18/21	IW-A08	zone A	11:24	15:21	EVO	0.0967	300	1.3	10	
02/18/21	IW-B08	zone B1	11:24	15:18	EVO	0.0575	250	1.1	56	
02/18/21	IW-D02	zone D	12:10	15:15	EVO	0.0575	250	1.4	10	
02/18/21	IW-A23	zone A	14:25	17:57	EVO	0.0967	325	1.5	12	
02/18/21	IW-A22	zone A	14:25	18:02	EVO	0.0967	325	1.5	40	
02/18/21	IW-A10	zone A	16:01	19:33	EVO	0.0967	250	1.2	6	
02/18/21	IW-B07	zone B1	15:33	19:40	EVO	0.0575	250	1.0	18	
02/18/21	IW-C04	zone C	15:36	19:49	EVO	0.0575	250	1.0	60	
02/18/21	IW-A02	zone A	16:01	16:18	EVO	0.0967	20	1.2		Surfaced up well casing
02/18/21	IW-C02	zone C	16:20	19:44	EVO	0.0575	250	1.2	22	
02/18/21	IW-B22	zone B2	18:50	19:51	EVO	0.0967	100	1.6	52	
02/18/21	IW-A21	zone A	18:50	19:55	EVO	0.0967	125	1.9	38	
02/19/21	IW-A23	zone A	11:25	13:25	EVO	0.0967	250	2.1	6	
02/19/21	IW-A22	zone A	11:25	13:29	EVO	0.0967	250	2.0	16	

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/19/21	IW-B08	zone B1	11:16	14:30	EVO	0.0575	250	1.3	48	
02/19/21	IW-C02	zone C	11:16	14:39	EVO	0.0575	250	1.2	53	
02/19/21	IW-B04	zone B1	11:19	13:53	EVO	0.0575	250	1.6	28	
02/19/21	IW-C10	zone C	11:35	11:50	EVO	0.0575	25	1.7	14	Fitting leaked. Removed and reinstalled
02/19/21	IW-A10	zone A	11:53	14:01	EVO	0.0967	250	2.0	20	
02/19/21	IW-B20	zone B2	13:32	16:26	EVO	0.0967	250	1.4	35	
02/19/21	IW-A21	zone A	13:32	16:20	EVO	0.0967	250	1.5	25	
02/19/21	IW-C05	zone C	14:17	16:55	EVO	0.0575	250	1.6	50	
02/19/21	IW-C10	zone C	14:17	16:40	EVO	0.0575	250	1.7	14	
02/19/21	IW-A08	zone A	15:00	17:37	EVO	0.0967	250	1.6	12	
02/19/21	IW-B02	zone B1	15:10	17:49	EVO	0.0575	250	1.6	20	
02/19/21	IW-A20	zone A	16:54	19:27	EVO	0.0967	250	1.6	24	
02/19/21	IW-A22	zone A	16:54	19:33	EVO	0.0967	250	1.6	14	
02/19/21	IW-A18	zone A	17:28	20:14	EVO	0.0967	250	1.5	18	
02/19/21	IW-A04	zone A	17:28	20:14	EVO	0.0967	250	1.5	12	
02/19/21	IW-C07	zone C	17:47	19:37	EVO	0.0575	150	1.4	38	
02/19/21	IW-B05	zone B1	17:54	19:59	EVO	0.0575	250	2.0	12	
02/20/21	IW-A23	zone A	11:32	13:29	EVO	0.0967	250	2.1	2	
02/20/21	IW-A21	zone A	11:32	14:01	EVO	0.0967	250	1.7	58	
02/20/21	IW-A13	zone A	11:41	14:10	EVO	0.0967	250	1.7	24	
02/20/21	IW-B02	zone B1	11:32	13:10	EVO	0.0575	250	2.6	22	
02/20/21	IW-C07	zone C	11:32	11:56	EVO	0.0575	35	1.5	44	Surfaced up nearby MW. J-plug would not hold. Installed PVC thread coupler on the MW
02/20/21	IW-C05	zone C	11:38	14:10	EVO	0.0575	150	1.0	70	
02/20/21	IW-B07	zone B1	12:09	13:52	EVO	0.0575	215	2.1	15	
02/20/21	IW-C02	zone C	13:30	15:27	EVO	0.0575	250	2.1	52	
02/20/21	IW-A22	zone A	14:12	16:54	EVO	0.0967	250	1.5	10	
02/20/21	IW-D08	zone D	13:55	17:32	EVO	0.0967	250	1.2	50	
02/20/21	IW-A20	zone A	13:55	17:09	EVO	0.0967	250	1.3	42	
02/20/21	IW-A18	zone A	14:52	19:26	EVO	0.0967	250	0.9	70	
02/20/21	IW-B04	zone B1	14:27	16:26	EVO	0.0575	250	2.1	20	
02/20/21	IW-C04	zone C	15:30	17:33	EVO	0.0575	250	2.0	26	
02/20/21	IW-B05	zone B1	16:50	19:10	EVO	0.0575	250	1.8	16	
02/20/21	IW-B20	zone B2	16:52	19:36	EVO	0.0967	250	1.5	66	
02/20/21	IW-B18	zone B2	16:52	19:33	EVO	0.0967	250	1.6	56	

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/20/21	IW-B08	zone B1	17:34	19:40	EVO	0.0575	250	2.0	48	
02/20/21	IW-B09	zone B1	17:29	19:24	EVO	0.0575	200	1.7	50	
02/21/21	IW-A04	zone A	9:04	11:09	EVO	0.0967	250	2.0	16	
02/21/21	IW-B05	zone B1	9:04	10:59	EVO	0.0575	250	2.2	16	
02/21/21	IW-D08	zone D	9:04	12:04	EVO	0.0967	250	1.4	50	
02/21/21	IW-B18	zone B2	9:04	12:11	EVO	0.0967	250	1.3	58	
02/21/21	IW-A21	zone A	9:04	11:35	EVO	0.0967	250	1.7	40	
02/21/21	IW-C07	zone C	9:04	11:24	EVO	0.0575	250	1.8	56	
02/21/21	IW-A05	zone A	11:03	13:09	EVO	0.0967	250	2.0	14	
02/21/21	IW-C02	zone C	11:16	13:18	EVO	0.0575	250	2.0	34	
02/21/21	IW-B09	zone B1	11:54	13:55	EVO	0.0575	250	2.1	54	
02/21/21	IW-A23	zone A	11:43	13:50	EVO	0.0967	250	2.0	4	
02/21/21	IW-A20	zone A	12:35	15:40	EVO	0.0967	310	1.7	32	
02/21/21	IW-A08	zone A	12:35	15:33	EVO	0.0967	315	1.8	14	
02/21/21	IW-B02	zone B1	13:03	15:01	EVO	0.0575	250	2.1	18	
02/21/21	IW-B04	zone B1	13:25	15:36	EVO	0.0575	250	1.9	26	
02/21/21	IW-A22	zone A	14:07	16:12	EVO	0.0967	250	2.0	10	
02/21/21	IW-A10	zone A	14:07	16:20	EVO	0.0967	250	1.9	18	
02/21/21	IW-C04	zone C	15:08	16:27	EVO	0.0575	130	1.6	68	
02/21/21	IW-C07	zone C	15:33	16:27	EVO	0.0575	75	1.4	52	
02/22/21	IW-D02	zone D	9:40	9:59	AW	0.0967	30	1.6	18	
02/22/21	IW-D02	zone D	10:00	10:16	DHC	10	0.15	0.0	18	
02/22/21	IW-D02	zone D	10:06	10:32	AW	0.0967	60	2.3	18	
02/22/21	IW-D02	zone D	14:00	15:10	EVO	0.0967	140	2.0	18	
02/22/21	IW-C05	zone C	9:50	10:10	AW	0.0575	30	1.5	60	
02/22/21	IW-C05	zone C	10:10	10:13	DHC	10	0.15	0.1	60	
02/22/21	IW-C05	zone C	10:13	10:56	AW	0.0575	60	1.4	60	
02/22/21	IW-B23	zone B2	9:26	14:39	EVO	0.0967	375	1.2	68	
02/22/21	IW-A15	zone A	9:20	14:35	EVO	0.0967	525	1.7	66	
02/22/21	IW-A14	zone A	9:20	14:35	EVO	0.0967	575	1.8	60	
02/22/21	IW-B07	zone B1	9:53	12:03	EVO	0.0575	250	1.9	14	
02/22/21	IW-C02	zone C	10:33	10:51	AW	0.0575	30	1.7	30	
02/22/21	IW-C02	zone C	10:51	10:54	DHC	10	0.15	0.1	30	
02/22/21	IW-C02	zone C	10:54	11:24	AW	0.0575	60	2.0	30	
02/22/21	IW-B02	zone B1	11:36	11:52	AW	0.0575	30	1.9	14	
02/22/21	IW-B02	zone B1	11:52	11:54	DHC	10	0.15	0.1	14	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/22/21	IW-B02	zone B1	11:54	12:30	AW	0.0575	60	1.7	14	
02/22/21	IW-B02	zone B1	12:33	13:02	EVO	0.0575	50	1.7	14	
02/22/21	IW-B05	zone B1	11:36	11:56	AW	0.0575	30	1.5	10	
02/22/21	IW-B05	zone B1	11:56	11:59	DHC	10	0.15	0.1	10	
02/22/21	IW-B05	zone B1	11:59	12:28	AW	0.0575	60	2.1	10	
02/22/21	IW-B05	zone B1	13:44	14:11	EVO	0.0575	50	1.9	16	
02/22/21	IW-C07	zone C	12:10	14:40	EVO	0.0575	250	1.7	48	
02/22/21	IW-B04	zone B1	12:30	12:55	AW	0.0575	30	1.2	22	
02/22/21	IW-B04	zone B1	12:55	12:57	DHC	10	0.15	0.1	22	
02/22/21	IW-B04	zone B1	12:57	13:39	AW	0.0575	60	1.4	22	
02/22/21	IW-B04	zone B1	14:10	14:43	EVO	0.0575	50	1.5	22	
02/22/21	IW-C02	zone C	12:38	13:50	EVO	0.0575	100	1.4	22	
02/22/21	IW-A21	zone A	15:10	15:32	AW	0.0967	30	1.4	62	
02/22/21	IW-A21	zone A	15:32	15:35	DHC	10	0.2	0.1	62	
02/22/21	IW-A21	zone A	15:35	16:18	AW	0.0967	60	1.4	62	
02/22/21	IW-A21	zone A	16:18	17:27	EVO	0.0967	100	1.4	62	
02/22/21	IW-A22	zone A	15:10	15:27	AW	0.0967	30	1.8	12	
02/22/21	IW-A22	zone A	15:27	15:30	DHC	10	0.2	0.1	12	
02/22/21	IW-A22	zone A	15:30	16:02	AW	0.0967	60	1.9	12	
02/22/21	IW-A22	zone A	16:02	17:15	EVO	0.0967	125	1.7	12	
02/22/21	IW-A04	zone A	15:28	17:26	EVO	0.0967	225	1.9	6	
02/22/21	IW-C05	zone C	15:30	15:49	AW	0.0575	30	1.6	52	
02/22/21	IW-C05	zone C	15:49	15:52	DHC	10	0.15	0.1	52	
02/22/21	IW-C05	zone C	15:52	16:18	AW	0.0575	60	2.3	52	
02/22/21	IW-C05	zone C	16:18	17:20	EVO	0.0575	150	2.4	52	
02/22/21	IW-A10	zone A	15:36	17:02	EVO	0.0967	150	1.7	40	
02/22/21	IW-B14	zone B1	15:38	17:25	EVO	0.0575	175	1.6	66	
02/23/21	IW-A14	zone A	9:15	11:25	EVO	0.0967	250	1.9	70	
02/23/21	IW-A14	zone A	11:25	11:36	AW	0.0967	30	2.7	70	
02/23/21	IW-A14	zone A	11:36	11:38	DHC	10	0.2	0.1	70	
02/23/21	IW-A14	zone A	11:38	12:02	AW	0.0967	60	2.5	70	
02/23/21	IW-A14	zone A	12:02	13:24	EVO	0.0967	125	1.5	70	
02/23/21	IW-A15	zone A	9:15	11:25	EVO	0.0967	250	1.9	32	
02/23/21	IW-A15	zone A	11:25	11:36	AW	0.0967	30	2.7	32	
02/23/21	IW-A15	zone A	11:36	11:38	DHC	10	0.2	0.1	32	
02/23/21	IW-A15	zone A	11:38	12:06	AW	0.0967	60	2.1	32	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/23/21	IW-A15	zone A	12:06	12:47	EVO	0.0967	75	1.8	32	
02/23/21	IW-C15	zone C	9:16	12:00	EVO	0.0575	250	1.5	52	
02/23/21	IW-C15	zone C	12:00	12:14	AW	0.0575	30	2.1	52	
02/23/21	IW-C15	zone C	12:14	12:16	DHC	10	0.15	0.1	52	
02/23/21	IW-C15	zone C	12:16	12:43	AW	0.0575	60	2.2	52	
02/23/21	IW-C15	zone C	12:43	13:40	EVO	0.0575	150	2.6	52	
02/23/21	IW-B23	zone B2	9:20	9:45	AW	0.0967	30	1.2	50	
02/23/21	IW-B23	zone B2	9:45	9:47	DHC	0.0967	0.15	0.1	50	
02/23/21	IW-B23	zone B2	9:47	10:24	AW	0.0967	60	1.6	50	
02/23/21	IW-B23	zone B2	10:24	12:10	EVO	0.0967	175	1.7	50	
02/23/21	IW-C04	zone C	9:17	11:00	EVO	0.0575	250	2.4	6	
02/23/21	IW-C07	zone C	9:20	11:23	EVO	0.0575	250	2.0	16	
02/23/21	IW-A04	zone A	11:32	13:52	EVO	0.0967	250	1.8	8	
02/23/21	IW-A07	zone A	11:32	13:52	EVO	0.0967	250	1.8	14	
02/23/21	IW-A20	zone A	12:26	14:18	EVO	0.0967	250	2.2	30	
02/23/21	IW-B14	zone B1	12:55	14:51	EVO	0.0575	250	2.2	54	
02/23/21	IW-A09	zone A	13:42	14:01	AW	0.0967	30	1.6	42	
02/23/21	IW-A09	zone A	14:01	14:04	DHC	10	0.2	0.1	42	
02/23/21	IW-A09	zone A	14:04	14:44	AW	0.0967	60	1.5	42	
02/23/21	IW-A09	zone A	14:44	16:06	EVO	0.0967	115	1.4	42	
02/23/21	IW-D18	zone D	13:52	16:23	EVO	0.0967	250	1.7	26	
02/23/21	IW-A05	zone A	14:23	17:27	EVO	0.0967	250	1.4	14	
02/23/21	IW-D08	zone D	14:23	17:31	EVO	0.0967	250	1.3	50	
02/23/21	IW-D19	zone D	14:46	17:29	EVO	0.0967	250	1.5	4	
02/23/21	IW-D14	zone D	15:00	17:04	EVO	0.0967	250	2.0	6	
02/24/21	IW-D08	zone D	8:44	9:02	AW	0.0967	30	1.7	42	
02/24/21	IW-D08	zone D	9:02	9:04	DHC	10	0.15	0.1	42	
02/24/21	IW-D08	zone D	9:04	9:35	AW	0.0967	60	1.9	42	
02/24/21	IW-D08	zone D	9:35	10:40	EVO	0.0967	100	1.5	42	
02/24/21	IW-D18	zone D	8:44	12:46	EVO	0.0967	250	1.0	64	
02/24/21	IW-D19	zone D	8:44	12:42	EVO	0.0967	250	1.1	60	
02/24/21	IW-B14	zone B1	8:44	11:21	EVO	0.0575	250	1.6	62	
02/24/21	IW-B09	zone B1	8:44	9:06	AW	0.0575	30	1.4	12	
02/24/21	IW-B09	zone B1	9:06	9:08	DHC	10	0.15	0.1	12	
02/24/21	IW-B09	zone B1	9:08	9:39	AW	0.0575	60	1.9	12	
02/24/21	IW-B09	zone B1	9:39	10:29	EVO	0.0575	100	2.0	12	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/24/21	IW-A03	zone A	8:44	11:38	EVO	0.0967	300	1.7	4	
02/24/21	IW-D14	zone D	10:32	12:20	EVO	0.0967	250	2.3	12	
02/24/21	IW-B08	zone B1	10:43	11:05	AW	0.0575	30	1.4	30	
02/24/21	IW-B08	zone B1	11:05	11:07	DHC	10	0.15	0.1	30	
02/24/21	IW-B08	zone B1	11:07	11:40	AW	0.0575	60	1.8	48	
02/24/21	IW-B08	zone B1	11:40	14:22	EVO	0.0575	185	1.1	55	
02/24/21	IW-B18	zone B2	11:31	11:55	AW	0.0967	30	1.3	56	
02/24/21	IW-B18	zone B2	11:55	11:57	DHC	10	0.15	0.1	56	
02/24/21	IW-B18	zone B2	11:57	12:40	AW	0.0967	60	1.4	56	
02/24/21	IW-B18	zone B2	12:40	13:20	EVO	0.0967	50	1.3	56	
02/24/21	IW-B03	zone B1	11:52	13:47	EVO	0.0575	250	2.2	6	
02/24/21	IW-A10	zone A	13:40	15:39	EVO	0.0967	250	2.1	5	
02/24/21	IW-A23	zone A	13:38	13:53	AW	0.0967	30	2.0	6	
02/24/21	IW-A23	zone A	13:55	13:57	DHC	10	0.2	0.1	6	
02/24/21	IW-A23	zone A	13:57	14:20	AW	0.0967	60	2.6	6	
02/24/21	IW-A23	zone A	14:25	15:12	EVO	0.0967	125	2.7	6	
02/24/21	IW-A20	zone A	13:40	15:44	EVO	0.0967	250	2.0	68	
02/24/21	IW-A03	zone A	13:55	15:56	EVO	0.0967	250	2.1	5	
02/24/21	IW-B07	zone B1	15:21	15:40	AW	0.0575	30	1.6	12	
02/24/21	IW-B07	zone B1	15:40	15:42	DHC	10	0.15	0.1	12	
02/24/21	IW-B07	zone B1	15:42	16:10	AW	0.0575	60	2.1	12	
02/24/21	IW-B07	zone B1	16:11	17:17	EVO	0.0575	85	1.3	12	
02/24/21	IW-B22	zone B2	15:35	15:53	AW	0.0967	30	1.7	48	
02/24/21	IW-B22	zone B2	15:53	15:55	DHC	10	0.15	0.1	48	
02/24/21	IW-B22	zone B2	15:55	16:26	AW	0.0967	60	1.9	48	
02/24/21	IW-B22	zone B2	16:11	17:27	EVO	0.0967	100	1.3	48	
02/24/21	IW-B06	zone B1	15:40	17:11	EVO	0.0575	85	0.9	12	
02/24/21	IW-A04	zone A	16:02	17:25	EVO	0.0967	150	1.8	8	
02/24/21	IW-A18	zone A	16:02	16:32	AW	0.0967	30	1.0	64	
02/24/21	IW-A18	zone A	16:32	16:34	DHC	10	0.2	0.1	64	
02/24/21	IW-A18	zone A	16:34	17:29	AW	0.0967	60	1.1	68	
02/25/21	IW-B21	zone B2	9:03	11:51	EVO	0.0967	250	1.5	30	
02/25/21	IW-D19	zone D	9:03	11:58	EVO	0.0967	250	1.4	70	
02/25/21	IW-D18	zone D	9:03	12:52	EVO	0.0967	250	1.1	50	
02/25/21	IW-D14	zone D	9:03	11:44	EVO	0.0967	250	1.6	2	
02/25/21	IW-A03	zone A	9:03	12:52	EVO	0.0967	250	1.1	12	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/25/21	IW-B01	zone B1	11:14	13:40	EVO	0.0575	250	1.7	24	
02/25/21	IW-B20	zone B2	12:16	12:38	AW	0.0967	30	1.4	34	
02/25/21	IW-B20	zone B2	12:38	12:40	DHC	10	0.15	0.1	34	
02/25/21	IW-B20	zone B2	12:40	12:58	AW	0.0967	60	3.3	34	
02/25/21	IW-B20	zone B2	12:58	13:33	EVO	0.0967	80	2.3	34	
02/25/21	IW-A20	zone A	12:16	12:34	AW	0.0967	30	1.7	64	
02/25/21	IW-A20	zone A	12:34	12:36	DHC	10	0.2	0.1	64	
02/25/21	IW-A20	zone A	12:36	13:14	AW	0.0967	60	1.6	64	
02/25/21	IW-A20	zone A	13:14	15:39	EVO	0.0967	140	1.0	64	
02/25/21	IW-B14	zone B1	12:16	14:27	EVO	0.0575	250	1.9	24	
02/25/21	IW-A18	zone A	13:27	15:03	EVO	0.0967	100	1.0	90	90 psi after 100 gallons; injection stopped
02/25/21	IW-A05	zone A	13:27	15:58	EVO	0.0967	250	1.7	12	
02/25/21	IW-C13	zone C	14:22	15:39	EVO	0.0575	50	0.6	32	packer installed at 10 feet bgs; injections continued with no leakage from well
02/25/21	IW-C01	zone C	14:38	16:50	EVO	0.0575	250	1.9	60	
02/25/21	IW-D14	zone D	15:35	16:50	EVO	0.0967	125	1.7	22	
02/25/21	IW-B21	zone B2	15:35	16:50	EVO	0.0967	125	1.7	10	
02/25/21	IW-B14	zone B1	16:05	16:24	AW	0.0575	30	1.6	54	
02/25/21	IW-B14	zone B1	16:24	16:26	DHC	10	0.15	0.1	54	
02/25/21	IW-B14	zone B1	16:26	16:50	AW	0.0575	60	2.5	54	
02/25/21	IW-B14	zone B1	17:23	17:48	EVO	0.0575	50	2.0	54	
02/25/21	IW-A10	zone A	16:05	16:50	EVO	0.0967	100	2.2	4	
02/26/21	IW-B21	zone B2	9:12	10:52	EVO	0.0967	250	2.5	14	
02/26/21	IW-D18	zone D	9:23	10:16	EVO	0.0967	50	0.9	90	
02/26/21	IW-A18	zone A	9:12	9:58	EVO	0.0967	75	1.6	74	
02/26/21	IW-B14	zone B1	9:12	9:36	EVO	0.0575	75	3.1		
02/26/21	IW-A10	zone A	9:12	9:32	AW	0.0967	30	1.5	4	
02/26/21	IW-A10	zone A	9:32	9:34	DHC	10	0.2	0.1	4	
02/26/21	IW-A10	zone A	9:34	9:51	AW	0.0967	60	3.5	4	
02/26/21	IW-A10	zone A	9:51	11:21	EVO	0.0967	200	2.2	4	
02/26/21	IW-C01	zone C	9:26	11:19	EVO	0.0575	250	2.2	60	
02/26/21	IW-D19	zone D	10:16	10:26	EVO	0.0967	2	0.2	90	injection stopped due to high pressure
02/26/21	IW-D18	zone D	10:43	11:03	AW	0.0967	15	0.8	70	
02/26/21	IW-D18	zone D	11:03	11:05	DHC	10	0.15	0.1	70	

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Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/26/21	IW-D18	zone D	11:05	12:51	AW	0.0967	60	0.6	70	
02/26/21	IW-B21	zone B2	11:12	11:27	AW	0.0967	30	2.0	16	
02/26/21	IW-B21	zone B2	11:27	11:29	DHC	10	0.15	0.1	16	
02/26/21	IW-B21	zone B2	11:29	11:53	AW	0.0967	60	2.5	16	
02/26/21	IW-B21	zone B2	11:53	13:21	EVO	0.0967	175	2.0	16	
02/26/21	IW-D20	zone D	11:41	14:00	EVO	0.0967	250	1.8	30	additional EVO injected at D20 due to high pressure at D19
02/26/21	IW-B01	zone B1	12:00	14:27	EVO	0.0575	250	1.7	10	
02/26/21	IW-D19	zone D	12:37	12:47	AW	0.0967	2	0.2	90	90 psi after 2 gallons; injection stopped due to high pressure
02/26/21	IW-D20	zone D	14:00	14:17	AW	0.0967	30	1.8	34	
02/26/21	IW-D20	zone D	14:17	14:19	DHC	10	0.15	0.1	34	additional DHC injected at D20 due to high pressure at D19
02/26/21	IW-D20	zone D	14:19	14:54	AW	0.0967	60	1.7	34	
02/26/21	IW-D20	zone D	14:54	15:23	EVO	0.0967	50	1.7	34	
02/26/21	IW-D14	zone D	15:10	15:31	AW	0.0967	30	1.4	20	
02/26/21	IW-D14	zone D	15:31	15:33	DHC	10	0.15	0.1	20	
02/26/21	IW-D14	zone D	15:33	15:54	AW	0.0967	60	2.9	20	
02/26/21	IW-D14	zone D	15:55	17:21	EVO	0.0967	175	2.0	28	
02/26/21	IW-C13	zone C	15:10	17:36	EVO	0.0575	125	0.9	44	
02/26/21	IW-B01	zone B1	15:17	17:11	EVO	0.0575	250	2.2	20	
02/26/21	IW-C01	zone C	15:17	17:11	EVO	0.0575	250	2.2	60	
02/26/21	IW-A08	zone A	15:47	17:35	EVO	0.0967	250	2.3	16	
02/27/21	IW-C01	zone C	9:16	11:18	EVO	0.0575	250	2.0	56	
02/27/21	IW-B01	zone B1	9:16	11:27	EVO	0.0575	250	1.9	12	
02/27/21	IW-A05	zone A	9:16	11:05	EVO	0.0967	250	2.3	18	
02/27/21	IW-A04	zone A	11:38	13:24	EVO	0.0967	150	1.4	2	
02/27/21	IW-A08	zone A	9:26	9:50	AW	0.0967	30	1.3	36	
02/27/21	IW-A08	zone A	9:50	9:52	DHC	10	0.2	0.1	36	
02/27/21	IW-A08	zone A	9:52	10:17	AW	0.0967	60	2.4	36	
02/27/21	IW-A08	zone A	10:17	11:04	EVO	0.0967	110	2.3	34	
02/27/21	IW-C13	zone C	9:16	13:24	EVO	0.0575	500	2.0	60	
02/27/21	IW-D06	zone D	11:38	13:39	EVO	0.0967	250	2.1	34	
02/27/21	IW-A07	zone A	11:38	13:39	EVO	0.0967	250	2.1	12	
02/27/21	IW-A01	zone A	11:38	13:39	EVO	0.0967	250	2.1	4	
02/27/21	IW-D01	zone D	11:38	12:00	EVO	0.0967	25	1.1		
02/27/21	IW-A02	zone A	13:52	17:21	EVO	0.0967	500	2.4	8	

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/27/21	IW-A01	zone A	13:52	15:53	EVO	0.0967	250	2.1	10	
02/27/21	IW-A07	zone A	13:52	15:57	EVO	0.0967	250	2.0	16	
02/27/21	IW-A05	zone A	13:52	14:49	EVO	0.0967	125	2.2	20	
02/27/21	IW-A05	zone A	14:49	15:10	AW	0.0967	30	1.4	20	
02/27/21	IW-A05	zone A	15:10	15:11	DHC	10	0.2	0.2	20	
02/27/21	IW-A05	zone A	15:11	15:43	AW	0.0967	60	1.9	20	
02/27/21	IW-A05	zone A	15:33	16:14	EVO	0.0967	75	1.8	20	
02/27/21	IW-D06	zone D	14:12	14:38	EVO	0.0967	50	1.9	40	
02/27/21	IW-D06	zone D	14:38	14:54	AW	0.0967	30	1.9	40	
02/27/21	IW-D06	zone D	14:54	14:55	DHC	10	0.15	0.2	40	
02/27/21	IW-D06	zone D	14:55	15:21	AW	0.0967	60	2.3	40	
02/27/21	IW-D06	zone D	15:21	16:07	EVO	0.0967	75	1.6	40	
02/27/21	IW-C03	zone C	16:06	17:47	EVO	0.0575	250	2.5	30	
02/27/21	IW-A04	zone A	16:19	16:42	AW	0.0967	30	1.3	6	
02/27/21	IW-A04	zone A	16:42	16:44	DHC	10	0.2	0.1	6	
02/27/21	IW-A04	zone A	16:44	17:09	AW	0.0967	60	2.4	6	
02/27/21	IW-A04	zone A	17:09	17:36	EVO	0.0967	50	1.9	6	
02/28/21	IW-A01	zone A	9:16	11:02	EVO	0.0967	250	2.4	6	
02/28/21	IW-A02	zone A	9:16	11:02	EVO	0.0967	250	2.4	10	
02/28/21	IW-B03	zone B1	9:16	11:03	EVO	0.0575	250	2.3	20	
02/28/21	IW-A07	zone A	9:16	11:04	EVO	0.0967	250	2.3	14	
02/28/21	IW-C13	zone C	9:01	11:24	EVO	0.0575	250	1.7	54	
02/28/21	IW-A06	zone A	10:32	12:43	EVO	0.0967	250	1.9	36	
02/28/21	IW-C01	zone C	11:30	11:46	AW	0.0575	30	1.9	62	
02/28/21	IW-C01	zone C	11:46	11:48	DHC	10	0.15	0.1	62	
02/28/21	IW-C01	zone C	11:48	12:14	AW	0.0575	60	2.3	62	
02/28/21	IW-C01	zone C	12:14	12:39	EVO	0.0575	50	2.0	60	
02/28/21	IW-B01	zone B1	11:30	11:44	AW	0.0575	30	2.1	24	
02/28/21	IW-B01	zone B1	11:44	11:46	DHC	10	0.15	0.1	24	
02/28/21	IW-B01	zone B1	11:46	12:11	AW	0.0575	60	2.4	24	
02/28/21	IW-B01	zone B1	12:11	12:31	EVO	0.0575	50	2.5	12	
02/28/21	IW-C03	zone C	11:30	13:21	EVO	0.0575	250	2.3	70	
02/28/21	IW-C07	zone C	11:30	11:43	AW	0.0575	30	2.3	44	
02/28/21	IW-C07	zone C	11:43	11:45	DHC	10	0.15	0.1	44	
02/28/21	IW-C07	zone C	11:45	12:14	AW	0.0575	60	2.1	44	
02/28/21	IW-C07	zone C	12:14	12:34	EVO	0.0575	40	2.0	44	

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
02/28/21	IW-C13	zone C	11:50	12:10	AW	0.0575	30	1.5	58	
02/28/21	IW-C13	zone C	12:10	12:12	DHC	10	0.15	0.1	58	
02/28/21	IW-C13	zone C	12:12	12:38	AW	0.0575	60	2.3	58	
02/28/21	IW-C13	zone C	12:38	13:10	EVO	0.0575	45	1.4	54	
02/28/21	IW-A01	zone A	13:05	15:07	EVO	0.0967	250	2.0	8	
02/28/21	IW-A02	zone A	13:05	15:12	EVO	0.0967	250	2.0	14	
02/28/21	IW-B06	zone B1	13:05	16:13	EVO	0.0575	250	1.3	70	
02/28/21	IW-A07	zone A	13:05	15:15	EVO	0.0967	250	1.9	14	
02/28/21	IW-C05	zone C	13:45	14:10	EVO	0.0575	50	2.0	54	
02/28/21	IW-D18	zone D	13:36	16:00	EVO	0.0967	70	0.5	90	90 psi after 70 gallons; injection stopped due to high pressure
02/28/21	IW-C04	zone C	14:28	14:49	AW	0.0575	30	1.4	8	
02/28/21	IW-C04	zone C	14:49	14:51	DHC	10	0.15	0.1	8	
02/28/21	IW-C04	zone C	14:51	15:22	AW	0.0575	60	1.9	8	
02/28/21	IW-C04	zone C	15:22	15:58	EVO	0.0575	60	1.7	16	
02/28/21	IW-A03	zone A	15:40	17:38	EVO	0.0967	250	2.1	10	
02/28/21	IW-D01	zone D	15:54	16:04	EVO	0.0967	2	0.2	2	packer installed at 10 feet bgs; 90 psi after 2 gallons; injection stopped due to high pressure; well obstruction at 59 feet bgs
02/28/21	IW-A07	zone A	16:35	17:46	EVO	0.0967	150	2.1	20	
02/28/21	IW-A06	zone A	16:38	17:39	EVO	0.0967	150	2.5	36	
02/28/21	IW-D17	zone D	16:35	17:54	EVO	0.0967	180	2.3	50	additional EVO injected at D17 due to high pressure at D18
03/01/21	IW-A01	zone A	8:59	10:58	EVO	0.0967	250	2.1	16	
03/01/21	IW-A03	zone A	8:59	10:52	EVO	0.0967	250	2.2	12	
03/01/21	IW-B03	zone B1	8:59	11:03	EVO	0.0575	250	2.0	24	
03/01/21	IW-A06	zone A	8:59	13:08	EVO	0.0967	500	2.0	20	
03/01/21	IW-B06	zone B1	8:59	11:17	EVO	0.0575	250	1.8	62	
03/01/21	IW-A07	zone A	8:59	9:18	AW	0.0967	30	1.6	14	
03/01/21	IW-A07	zone A	9:18	9:19	DHC	10	0.2	0.2	14	
03/01/21	IW-A07	zone A	9:19	9:52	AW	0.0967	60	1.8	14	
03/01/21	IW-A07	zone A	9:52	10:23	EVO	0.0967	50	1.6	14	
03/01/21	IW-A02	zone A	11:20	13:19	EVO	0.0967	250	2.1	14	
03/01/21	IW-D02	zone D	11:20	14:57	EVO	0.0967	500	2.3	24	additional EVO injected at D02 due to well obstruction at D01
03/01/21	IW-C03	zone C	11:20	13:27	EVO	0.0575	250	2.0	68	

Attachment D:
2021 Injection Totals Summary
ERD Remediation Program
Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/01/21	IW-B02	zone B1	13:40	15:29	EVO	0.0575	250	2.3	10	
03/01/21	IW-B03	zone B1	13:40	15:22	EVO	0.0575	250	2.5	24	
03/01/21	IW-B06	zone B1	13:40	16:14	EVO	0.0575	250	1.6	64	
03/01/21	IW-A01	zone A	13:40	13:57	AW	0.0967	30	1.8	18	
03/01/21	IW-A01	zone A	13:57	13:59	DHC	10	0.2	0.1	18	
03/01/21	IW-A01	zone A	13:59	14:26	AW	0.0967	60	2.2	18	
03/01/21	IW-A01	zone A	14:26	15:51	EVO	0.0967	200	2.4	18	
03/01/21	IW-A03	zone A	13:49	14:03	AW	0.0967	30	2.1	14	
03/01/21	IW-A03	zone A	14:03	14:04	DHC	10	0.2	0.2	14	
03/01/21	IW-A03	zone A	14:04	14:32	AW	0.0967	60	2.1	14	
03/01/21	IW-A03	zone A	14:32	15:42	EVO	0.0967	150	2.1	20	
03/01/21	IW-A02	zone A	15:10	15:24	AW	0.0967	30	2.1	10	
03/01/21	IW-A02	zone A	15:24	15:25	DHC	10	0.2	0.2	10	
03/01/21	IW-A02	zone A	15:25	15:59	AW	0.0967	60	1.8	10	
03/01/21	IW-A02	zone A	15:59	17:38	EVO	0.0967	180	1.8	12	
03/01/21	IW-B03	zone B1	16:05	16:21	AW	0.0575	30	1.9	26	
03/01/21	IW-B03	zone B1	16:21	16:23	DHC	10	0.15	0.1	26	
03/01/21	IW-B03	zone B1	16:23	16:48	AW	0.0575	60	2.4	26	
03/01/21	IW-B03	zone B1	16:48	17:20	EVO	0.0575	50	1.6	24	
03/01/21	IW-C03	zone C	15:43	16:01	AW	0.0575	30	1.7	60	
03/01/21	IW-C03	zone C	16:01	16:02	DHC	10	0.15	0.1	60	
03/01/21	IW-C03	zone C	16:02	16:27	AW	0.0575	60	2.4	60	
03/01/21	IW-C03	zone C	16:27	17:02	EVO	0.0575	45	1.3	68	
03/01/21	IW-D02	zone D	15:51	17:46	EVO	0.0967	250	2.2	18	additional EVO injected at D02 due to well obstruction at D01
03/01/21	IW-A06	zone A	16:02	17:55	EVO	0.0967	250	2.2	14	
03/02/21	IW-D02	zone D	9:08	10:13	EVO	0.0967	133	2.0	20	
03/02/21	IW-A06	zone A	9:00	11:15	EVO	0.0967	250	1.9	2	
03/02/21	IW-A06	zone A	11:15	11:29	AW	0.0967	30	2.1	2	
03/02/21	IW-A06	zone A	11:29	11:31	DHC	10	0.2	0.1	2	
03/02/21	IW-A06	zone A	11:31	12:00	AW	0.0967	60	2.1	2	
03/02/21	IW-A06	zone A	12:00	12:29	EVO	0.0967	50	1.7	4	
03/02/21	IW-B06	zone B1	8:35	10:06	EVO	0.0575	165	1.8	54	
03/02/21	IW-B06	zone B1	10:06	10:22	AW	0.0575	30	1.9	54	
03/02/21	IW-B06	zone B1	10:22	10:24	DHC	10	0.15	0.1	54	
03/02/21	IW-B06	zone B1	10:24	10:54	AW	0.0575	60	2.0	54	

Attachment D:
2021 Injection Totals Summary
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Former American Linen Suppy
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Interval Name	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
03/02/21	IW-B06	zone B1	10:54	11:21	EVO	0.0575	50	1.9	50	
							53,587	**1.55**	**90**	

ATTACHMENT E

2021 DAILY FIELD REPORTS

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	16-Feb-21	Client:	PES	Personnel:	KO, PH, MC, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy 44-50° F

Major Work Activities Performed:

-Inspection of P3 level for seeps, collected pre-injection photos of P3
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 750 gallons of EVO solution into 6 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A17	zone A	3:14:00 PM	4:41:00 PM	EVO	9.67%	85	1.0	14	Location complete
IW-A18	zone A	3:22:00 PM	6:56:00 PM	EVO	9.67%	200	0.9	50	
IW-B08	zone B1	3:38:00 PM	4:05:00 PM	EVO	9.67%	15	0.6	80	Stopped due to high pressure
IW-B18	zone B2	4:48:00 PM	6:56:00 PM	EVO	9.67%	175	1.4	38	
IW-D08	zone D	4:10:00 PM	6:56:00 PM	EVO	9.67%	200	1.2	40	
IW-B22	zone B2	5:46:00 PM	6:56:00 PM	EVO	9.67%	75	1.1	40	
Totals						750			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	17-Feb-21	**Client:**	PES	**Personnel:**	KO, PH, MC, RG
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	Partly cloudy 42-49° F

Major Work Activities Performed:

-Inspection of P3 level for seeps, collected pre-injection photos of P3
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 750 gallons of EVO solution into 6 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A18	zone A	3:39:00 PM	5:47:00 PM	EVO	9.67%	175	1.4	66	Stopped due to high pressure
IW-B18	zone B2	3:39:00 PM	7:27:00 PM	EVO	9.67%	250	1.1	54	
IW-B07	zone B1	3:39:00 PM	8:10:00 PM	EVO	5.75%	250	0.9	28	
IW-A23	zone A	3:39:00 PM	7:20:00 PM	EVO	9.67%	250	1.1	14	
IW-B05	zone B1	4:20:00 PM	6:40:00 PM	EVO	5.75%	250	1.8	30	
IW-B04	zone B1	4:54:00 PM	8:41:00 PM	EVO	5.75%	250	1.1	26	
IW-A05	zone A	6:47:00 PM	10:05:00 PM	EVO	9.67%	250	1.3	14	
IW-B09	zone B1	6:14:00 PM	8:36:00 PM	EVO	5.75%	250	1.8	40	
IW-B22	zone B2	7:45:00 PM	10:05:00 PM	EVO	9.67%	225	1.6	24	
IW-A21	zone A	7:45:00 PM	10:08:00 PM	EVO	9.67%	225	1.6	48	
IW-A08	zone A	8:20:00 PM	10:08:00 PM	EVO	9.67%	225	2.1	40	
IW-B08	zone B1	8:50:00 PM	10:06:00 PM	EVO	5.75%	100	1.3	56	
IW-A04	zone A	8:47:00 PM	10:06:00 PM	EVO	5.75%	125	1.6	10	
Totals						2,825			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	18-Feb-21	Client:	PES	Personnel:	KO, PH, MC, RG
Project #:	901312	Location:	Seattle, WA	Weather:	light rain, 40-46° F

Major Work Activities Performed:

-Inspection of P3 level for seeps, collected pre-injection and post injection photos of P3
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,445 gallons of EVO solution into 13 injection screens
- Surfacing occurred in the well casing while injecting on IW-A02. We will try A02 again with the packer. IW-C02 did not surface

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A21	zone A	10:59:00 AM	2:14:00 PM	EVO	9.67%	250	1.3	54	
IW-B22	zone B2	10:59:00 AM	2:18:00 PM	EVO	9.67%	250	1.3	62	
IW-B09	zone B1	11:20:00 AM	3:23:00 PM	EVO	5.75%	250	1.0	38	
IW-A08	zone A	11:24:00 AM	3:21:00 PM	EVO	9.67%	300	1.3	10	
IW-B08	zone B1	11:24:00 AM	3:18:00 PM	EVO	5.75%	250	1.1	56	
IW-B02	zone B1	12:10:00 PM	3:15:00 PM	EVO	5.75%	250	1.4	10	
IW-A23	zone A	2:25:00 PM	5:57:00 PM	EVO	9.67%	325	1.5	12	
IW-A22	zone A	2:25:00 PM	6:02:00 PM	EVO	9.67%	325	1.5	40	
IW-A10	zone A	4:01:00 PM	7:33:00 PM	EVO	9.67%	250	1.2	6	
IW-B07	zone B1	3:33:00 PM	7:40:00 PM	EVO	5.75%	250	1.0	18	
IW-C04	zone C	3:36:00 PM	7:49:00 PM	EVO	5.75%	250	1.0	60	
IW-A02	zone A	4:01:00 PM	4:18:00 PM	EVO	9.67%	20	1.2		Surfaced up well casing
IW-C02	zone C	4:20:00 PM	7:44:00 PM	EVO	5.75%	250	1.2	22	
IW-B22	zone B2	6:50:00 PM	7:51:00 PM	EVO	9.67%	100.00	1.6	52	
IW-A21	zone A	6:50:00 PM	7:55:00 PM	EVO	9.67%	125	1.9	38	
Totals						3,445			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	19-Feb-21	Client:	PES	Personnel:	KO, PH, MC, RG
Project #:	901312	Location:	Seattle, WA	Weather:	light rain, 40-46° F

Major Work Activities Performed:

-Inspection of P3 level for seeps, collected pre-injection and post injection photos of P3
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 4,425 gallons of EVO solution into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A23	zone A	11:25:00 AM	1:25:00 PM	EVO	9.67%	250	2.1	6	
IW-A22	zone A	11:25:00 AM	1:29:00 PM	EVO	9.67%	250	2.0	16	
IW-B08	zone B1	11:16:00 AM	2:30:00 PM	EVO	5.75%	250	1.3	48	
IW-C02	zone C	11:16:00 AM	2:39:00 PM	EVO	5.75%	250	1.2	53	
IW-B04	zone B1	11:19:00 AM	1:53:00 PM	EVO	5.75%	250	1.6	28	
IW-C10	zone C	11:35:00 AM	11:50:00 AM	EVO	5.75%	25	1.7	14	Fitting leaked. Removed and reinstalled
IW-A10	zone A	11:53:00 AM	2:01:00 PM	EVO	9.67%	250	2.0	20	
IW-B20	zone B2	1:32:00 PM	4:26:00 PM	EVO	9.67%	250	1.4	35	
IW-A21	zone A	1:32:00 PM	4:20:00 PM	EVO	9.67%	250	1.5	25	
IW-C05	zone C	2:17:00 PM	4:55:00 PM	EVO	5.75%	250	1.6	50	
IW-C10	zone C	2:17:00 PM	4:40:00 PM	EVO	5.75%	250	1.7	14	
IW-A08	zone A	3:00:00 PM	5:37:00 PM	EVO	9.67%	250	1.6	12	
IW-B02	zone B1	3:10:00 PM	5:49:00 PM	EVO	5.75%	250	1.6	20	
IW-A20	zone A	4:54:00 PM	7:27:00 PM	EVO	9.67%	250	1.6	24	
IW-A22	zone A	4:54:00 PM	7:33:00 PM	EVO	9.67%	250	1.6	14	
IW-A18	zone A	5:28:00 PM	8:14:00 PM	EVO	9.67%	250	1.5	18	
IW-A04	zone A	5:28:00 PM	8:14:00 PM	EVO	9.67%	250	1.5	12	
IW-C07	zone C	5:47:00 PM	7:37:00 PM	EVO	5.75%	150	1.4	38	
IW-B05	zone B1	5:54:00 PM	7:59:00 PM	EVO	5.75%	250	2.0	12	
Totals						4,425			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	20-Feb-21	Client:	PES	Personnel:	KO, PH, KH, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Breezy and overcast, 45-50° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage was observed in P3 in the area of IW-A18. Approximately 2.5 gallons of EVO and groundwater was collected throughout the day

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 4,350 gallons of EVO solution into 19 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A23	zone A	11:32:00 AM	1:29:00 PM	EVO	9.67%	250	2.1	2	
IW-A21	zone A	11:32:00 AM	2:01:00 PM	EVO	9.67%	250	1.7	58	
IW-A13	zone A	11:41:00 AM	2:10:00 PM	EVO	9.67%	250	1.7	24	
IW-B02	zone B1	11:32:00 AM	1:10:00 PM	EVO	5.75%	250	2.6	22	
IW-C07	zone C	11:32:00 AM	11:56:00 AM	EVO	5.75%	35	1.5	44	Surfaced up nearby MW. J-plug would not hold. Installed PVC thread coupler on the MW
IW-C05	zone C	11:38:00 AM	2:10:00 PM	EVO	5.75%	150	1.0	70	
IW-B07	zone B1	12:09:00 PM	1:52:00 PM	EVO	5.75%	215	2.1	15	
IW-C02	zone C	1:30:00 PM	3:27:00 PM	EVO	5.75%	250	2.1	52	
IW-A22	zone A	2:12:00 PM	4:54:00 PM	EVO	9.67%	250	1.5	10	
IW-D08	zone D	1:55:00 PM	5:32:00 PM	EVO	9.67%	250	1.2	50	
IW-A20	zone A	1:55:00 PM	5:09:00 PM	EVO	9.67%	250	1.3	42	
IW-A18	zone A	2:52:00 PM	7:26:00 PM	EVO	9.67%	250	0.9	70	
IW-B04	zone B1	2:27:00 PM	4:26:00 PM	EVO	5.75%	250	2.1	20	
IW-C04	zone C	3:30:00 PM	5:33:00 PM	EVO	5.75%	250	2.0	26	
IW-B05	zone B1	4:50:00 PM	7:10:00 PM	EVO	5.75%	250	1.8	16	
IW-B20	zone B2	4:52:00 PM	7:36:00 PM	EVO	9.67%	250	1.5	66	
IW-B18	zone B2	4:52:00 PM	7:33:00 PM	EVO	9.67%	250	1.6	56	
IW-B08	zone B1	5:34:00 PM	7:40:00 PM	EVO	5.75%	250	2.0	48	
IW-B09	zone B1	5:29:00 PM	7:24:00 PM	EVO	5.75%	200	1.7	50	
Totals						4,350			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	21-Feb-21	Client:	PES	Personnel:	KO, PH, KH, RG
Project #:	901312	Location:	Seattle, WA	Weather:	High winds, overcast, 48-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage observed in P3 in the area of IW-A18. Approximately 2 gallons of EVO and groundwater was collected throughout the day

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 4,300 gallons of EVO solution into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A04	zone A	9:04:00 AM	11:09:00 AM	EVO	9.67%	250	2.0	16	
IW-B05	zone B1	9:04:00 AM	10:59:00 AM	EVO	5.75%	250	2.2	16	
IW-D08	zone D	9:04:00 AM	12:04:00 PM	EVO	9.67%	250	1.4	50	
IW-B18	zone B2	9:04:00 AM	12:11:00 PM	EVO	9.67%	250	1.3	58	
IW-A21	zone A	9:04:00 AM	11:35:00 AM	EVO	9.67%	250	1.7	40	
IW-C07	zone C	9:04:00 AM	11:24:00 AM	EVO	5.75%	250	1.8	56	
IW-A05	zone A	11:03:00 AM	1:09:00 PM	EVO	9.67%	250	2.0	14	
IW-C02	zone C	11:16:00 AM	1:18:00 PM	EVO	5.75%	250	2.0	34	
IW-B09	zone B1	11:54:00 AM	1:55:00 PM	EVO	5.75%	250	2.1	54	
IW-A23	zone A	11:43:00 AM	1:50:00 PM	EVO	9.67%	250	2.0	4	
IW-A20	zone A	12:35:00 PM	3:40:00 PM	EVO	9.67%	310	1.7	32	
IW-A08	zone A	12:35:00 PM	3:33:00 PM	EVO	9.67%	315	1.8	14	
IW-B02	zone B1	1:03:00 PM	3:01:00 PM	EVO	5.75%	250	2.1	18	
IW-B04	zone B1	1:25:00 PM	3:36:00 PM	EVO	5.75%	250	1.9	26	
IW-A22	zone A	2:07:00 PM	4:12:00 PM	EVO	9.67%	250	2.0	10	
IW-A10	zone A	2:07:00 PM	4:20:00 PM	EVO	9.67%	250	1.9	18	
IW-C04	zone C	3:08:00 PM	4:27:00 PM	EVO	5.75%	130	1.6	68	
IW-C07	zone C	3:33:00 PM	4:27:00 PM	EVO	5.75%	75	1.4	52	
Totals						4,330			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	22-Feb-21	Client:	PES	Personnel:	KO, PH, KH, RG
Project #:	901312	Location:	Seattle, WA	Weather:	High winds, overcast, 48-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage observed in P3 in the area of IW-A18. Seepage was also observed around MW-CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 3,290 gallons of EVO solution, 810 gallons of anoxic water and 1.45 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D02	zone D	9:40:00 AM	9:59:00 AM	AW	9.67%	30	1.6	18	
IW-D02	zone D	10:00:00 AM	10:16:00 AM	DHC	1000%	0.15	0.0	18	
IW-D02	zone D	10:06:00 AM	10:32:00 AM	AW	9.67%	60	2.3	18	
IW-D02	zone D	2:00:00 PM	3:10:00 PM	EVO	9.67%	140	2.0	18	
IW-C05	zone C	9:50:00 AM	10:10:00 AM	AW	5.75%	30	1.5	60	
IW-C05	zone C	10:10:00 AM	10:13:00 AM	DHC	1000%	0.15	0.1	60	
IW-C05	zone C	10:13:00 AM	10:56:00 AM	AW	5.75%	60	1.4	60	
IW-B23	zone B2	9:26:00 AM	2:39:00 PM	EVO	9.67%	375	1.2	68	
IW-A15	zone A	9:20:00 AM	2:35:00 PM	EVO	9.67%	525	1.7	66	
IW-A14	zone A	9:20:00 AM	2:35:00 PM	EVO	9.67%	575	1.8	60	
IW-B07	zone B1	9:53:00 AM	12:03:00 PM	EVO	5.75%	250	1.9	14	
IW-C02	zone C	10:33:00 AM	10:51:00 AM	AW	5.75%	30	1.7	30	
IW-C02	zone C	10:51:00 AM	10:54:00 AM	DHC	1000%	0.15	0.1	30	
IW-C02	zone C	10:54:00 AM	11:24:00 AM	AW	5.75%	60	2.0	30	
IW-B02	zone B1	11:36:00 AM	11:52:00 AM	AW	5.75%	30	1.9	14	
IW-B02	zone B1	11:52:00 AM	11:54:00 AM	DHC	1000%	0.15	0.1	14	
IW-B02	zone B1	11:54:00 AM	12:30:00 PM	AW	5.75%	60	1.7	14	
IW-B02	zone B1	12:33:00 PM	1:02:00 PM	EVO	5.75%	50	1.7	14	
IW-B05	zone B1	11:36:00 AM	11:56:00 AM	AW	5.75%	30	1.5	10	
IW-B05	zone B1	11:56:00 AM	11:59:00 AM	DHC	1000%	0.15	0.1	10	
IW-B05	zone B1	11:59:00 AM	12:28:00 PM	AW	5.75%	60	2.1	10	
IW-B05	zone B1	1:44:00 PM	2:11:00 PM	EVO	5.75%	50	1.9	16	
IW-C07	zone C	12:10:00 PM	2:40:00 PM	EVO	5.75%	250	1.7	48	
IW-B04	zone B1	12:30:00 PM	12:55:00 PM	AW	5.75%	30	1.2	22	
IW-B04	zone B1	12:55:00 PM	12:57:00 PM	DHC	1000%	0.15	0.1	22	
IW-B04	zone B1	12:57:00 PM	1:39:00 PM	AW	5.75%	60	1.4	22	
IW-B04	zone B1	2:10:00 PM	2:43:00 PM	EVO	5.75%	50	1.5	22	
IW-C02	zone C	12:38:00 PM	1:50:00 PM	EVO	5.75%	100	1.4	22	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	22-Feb-21	Client:	PES	Personnel:	KO, PH, KH, RG
Project #:	901312	Location:	Seattle, WA	Weather:	High winds, overcast, 48-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage observed in P3 in the area of IW-A18. Seepage was also observed around MW-CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 3,290 gallons of EVO solution, 810 gallons of anoxic water and 1.45 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A21	zone A	3:10:00 PM	3:32:00 PM	AW	9.67%	30	1.4	62	
IW-A21	zone A	3:32:00 PM	3:35:00 PM	DHC	1000%	0.20	0.1	62	
IW-A21	zone A	3:35:00 PM	4:18:00 PM	AW	9.67%	60	1.4	62	
IW-A21	zone A	4:18:00 PM	5:27:00 PM	EVO	9.67%	100	1.4	62	
IW-A22	zone A	3:10:00 PM	3:27:00 PM	AW	9.67%	30	1.8	12	
IW-A22	zone A	3:27:00 PM	3:30:00 PM	DHC	1000%	0.20	0.1	12	
IW-A22	zone A	3:30:00 PM	4:02:00 PM	AW	9.67%	60	1.9	12	
IW-A22	zone A	4:02:00 PM	5:15:00 PM	EVO	9.67%	125	1.7	12	
IW-A04	zone A	3:28:00 PM	5:26:00 PM	EVO	9.67%	225	1.9	6	
IW-C05	zone C	3:30:00 PM	3:49:00 PM	AW	5.75%	30	1.6	52	
IW-C05	zone C	3:49:00 PM	3:52:00 PM	DHC	1000%	0.15	0.1	52	
IW-C05	zone C	3:52:00 PM	4:18:00 PM	AW	5.75%	60	2.3	52	
IW-C05	zone C	4:18:00 PM	5:20:00 PM	EVO	5.75%	150	2.4	52	
IW-A10	zone A	3:36:00 PM	5:02:00 PM	EVO	9.67%	150	1.7	40	
IW-B14	zone B1	3:38:00 PM	5:25:00 PM	EVO	5.75%	175	1.6	66	
Totals						4,101			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	23-Feb-21	Client:	PES	Personnel:	KO, KH, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Overcast, PM hail, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3.
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Located and set up remaining injection locations
- Injected 4,140 gallons of EVO solution, 450 gallons of anoxic water and 0.75 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A14	zone A	9:15:00 AM	11:25:00 AM	EVO	9.67%	250	1.9	70	
IW-A14	zone A	11:25:00 AM	11:36:00 AM	AW	9.67%	30	2.7	70	
IW-A14	zone A	11:36:00 AM	11:38:00 AM	DHC	1000%	0.20	0.1	70	
IW-A14	zone A	11:38:00 AM	12:02:00 PM	AW	9.67%	60	2.5	70	
IW-A14	zone A	12:02:00 PM	1:24:00 PM	EVO	9.67%	125	1.5	70	
IW-A15	zone A	9:15:00 AM	11:25:00 AM	EVO	9.67%	250	1.9	32	
IW-A15	zone A	11:25:00 AM	11:36:00 AM	AW	9.67%	30	2.7	32	
IW-A15	zone A	11:36:00 AM	11:38:00 AM	DHC	1000%	0.20	0.1	32	
IW-A15	zone A	11:38:00 AM	12:06:00 PM	AW	9.67%	60	2.1	32	
IW-A15	zone A	12:06:00 PM	12:47:00 PM	EVO	9.67%	75	1.8	32	
IW-C15	zone C	9:16:00 AM	12:00:00 PM	EVO	5.75%	250	1.5	52	
IW-C15	zone C	12:00:00 PM	12:14:00 PM	AW	5.75%	30	2.1	52	
IW-C15	zone C	12:14:00 PM	12:16:00 PM	DHC	1000%	0.15	0.1	52	
IW-C15	zone C	12:16:00 PM	12:43:00 PM	AW	5.75%	60	2.2	52	
IW-C15	zone C	12:43:00 PM	1:40:00 PM	EVO	5.75%	150	2.6	52	
IW-B23	zone B2	9:20:00 AM	9:45:00 AM	AW	9.67%	30	1.2	50	
IW-B23	zone B2	9:45:00 AM	9:47:00 AM	DHC	9.67%	0.15	0.1	50	
IW-B23	zone B2	9:47:00 AM	10:24:00 AM	AW	9.67%	60	1.6	50	
IW-B23	zone B2	10:24:00 AM	12:10:00 PM	EVO	9.67%	175	1.7	50	
IW-C04	zone C	9:17:00 AM	11:00:00 AM	EVO	5.75%	250	2.4	6	
IW-C07	zone C	9:20:00 AM	11:23:00 AM	EVO	5.75%	250	2.0	16	
IW-A04	zone A	11:32:00 AM	1:52:00 PM	EVO	9.67%	250	1.8	8	
IW-A07	zone A	11:32:00 AM	1:52:00 PM	EVO	9.67%	250	1.8	14	
IW-A20	zone A	12:26:00 PM	2:18:00 PM	EVO	9.67%	250	2.2	30	
IW-B14	zone B1	12:55:00 PM	2:51:00 PM	EVO	5.75%	250	2.2	54	
IW-A09	zone A	1:42:00 PM	2:01:00 PM	AW	9.67%	30	1.6	42	
IW-A09	zone A	2:01:00 PM	2:04:00 PM	DHC	1000%	0.20	0.1	42	
IW-A09	zone A	2:04:00 PM	2:44:00 PM	AW	9.67%	60	1.5	42	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	23-Feb-21	Client:	PES	Personnel:	KO, KH, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Overcast, PM hail, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3.
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Located and set up remaining injection locations
- Injected 4,140 gallons of EVO solution, 450 gallons of anoxic water and 0.75 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A09	zone A	2:44:00 PM	4:06:00 PM	EVO	9.67%	115	1.4	42	
IW-D18	zone D	1:52:00 PM	4:23:00 PM	EVO	9.67%	250	1.7	26	
IW-A05	zone A	2:23:00 PM	5:27:00 PM	EVO	9.67%	250	1.4	14	
IW-D08	zone D	2:23:00 PM	5:31:00 PM	EVO	9.67%	250	1.3	50	
IW-D19	zone D	2:46:00 PM	5:29:00 PM	EVO	9.67%	250	1.5	4	
IW-D14	zone D	3:00:00 PM	5:04:00 PM	EVO	9.67%	250	2.0	6	
Totals						4,591			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	24-Feb-21	Client:	PES	Personnel:	KO, KH, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage on P3 in the area of IW-A18
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,280 gallons of EVO solution, 720 gallons of anoxic water and liters of DHC into 19 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D08	zone D	8:44:00 AM	9:02:00 AM	AW	9.67%	30	1.7	42	
IW-D08	zone D	9:02:00 AM	9:04:00 AM	DHC	1000%	0.15	0.1	42	
IW-D08	zone D	9:04:00 AM	9:35:00 AM	AW	9.67%	60	1.9	42	
IW-D08	zone D	9:35:00 AM	10:40:00 AM	EVO	9.67%	100	1.5	42	
IW-D18	zone D	8:44:00 AM	12:46:00 PM	EVO	9.67%	250	1.0	64	
IW-D19	zone D	8:44:00 AM	12:42:00 PM	EVO	9.67%	250	1.1	60	
IW-B14	zone B1	8:44:00 AM	11:21:00 AM	EVO	5.75%	250	1.6	62	
IW-B09	zone B1	8:44:00 AM	9:06:00 AM	AW	5.75%	30	1.4	12	
IW-B09	zone B1	9:06:00 AM	9:08:00 AM	DHC	1000%	0.15	0.1	12	
IW-B09	zone B1	9:08:00 AM	9:39:00 AM	AW	5.75%	60	1.9	12	
IW-B09	zone B1	9:39:00 AM	10:29:00 AM	EVO	5.75%	100	2.0	12	
IW-A03	zone A	8:44:00 AM	11:38:00 AM	EVO	9.67%	300	1.7	4	
IW-D14	zone D	10:32:00 AM	12:20:00 PM	EVO	9.67%	250	2.3	12	
IW-B08	zone B1	10:43:00 AM	11:05:00 AM	AW	5.75%	30	1.4	30	
IW-B08	zone B1	11:05:00 AM	11:07:00 AM	DHC	1000%	0.15	0.1	30	
IW-B08	zone B1	11:07:00 AM	11:40:00 AM	AW	5.75%	60	1.8	48	
IW-B08	zone B1	11:40:00 AM	2:22:00 PM	EVO	5.75%	185	1.1	55	
IW-B18	zone B2	11:31:00 AM	11:55:00 AM	AW	9.67%	30	1.3	56	
IW-B18	zone B2	11:55:00 AM	11:57:00 AM	DHC	1000%	0.15	0.1	56	
IW-B18	zone B2	11:57:00 AM	12:40:00 PM	AW	9.67%	60	1.4	56	
IW-B18	zone B2	12:40:00 PM	1:20:00 PM	EVO	9.67%	50	1.3	56	
IW-B03	zone B1	11:52:00 AM	1:47:00 PM	EVO	5.75%	250	2.2	6	
IW-A10	zone A	1:40:00 PM	3:39:00 PM	EVO	9.67%	250	2.1	5	
IW-A23	zone A	1:38:00 PM	1:53:00 PM	AW	9.67%	30	2.0	6	
IW-A23	zone A	1:55:00 PM	1:57:00 PM	DHC	1000%	0.20	0.1	6	
IW-A23	zone A	1:57:00 PM	2:20:00 PM	AW	9.67%	60	2.6	6	
IW-A23	zone A	2:25:00 PM	3:12:00 PM	EVO	9.67%	125	2.7	6	
IW-A20	zone A	1:40:00 PM	3:44:00 PM	EVO	9.67%	250	2.0	68	
IW-A03	zone A	1:55:00 PM	3:56:00 PM	EVO	9.67%	250	2.1	5	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	**Attachment E:** **2021 Treatment Program Daily Report**	ISOTEC

Date:	24-Feb-21	**Client:**	PES	**Personnel:**	KO, KH, MM, RG
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps, collected pre-injection and post injection photos of P2 and P3. Slight seepage on P3 in the area of IW-A18
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,280 gallons of EVO solution, 720 gallons of anoxic water and liters of DHC into 19 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B07	zone B1	3:21:00 PM	3:40:00 PM	AW	5.75%	30	1.6	12	
IW-B07	zone B1	3:40:00 PM	3:42:00 PM	DHC	5.75%	0.15	0.1	12	
IW-B07	zone B1	3:42:00 PM	4:10:00 PM	AW	5.75%	60	2.1	12	
IW-B07	zone B1	4:11:00 PM	5:17:00 PM	EVO	5.75%	85	1.3	12	
IW-B22	zone B2	3:35:00 PM	3:53:00 PM	AW	9.67%	30	1.7	48	
IW-B22	zone B2	3:53:00 PM	3:55:00 PM	DHC	9.67%	0.15	0.1	48	
IW-B22	zone B2	3:55:00 PM	4:26:00 PM	AW	9.67%	60	1.9	48	
IW-B22	zone B2	4:11:00 PM	5:27:00 PM	EVO	9.67%	100	1.3	48	
IW-B06	zone B1	3:40:00 PM	5:11:00 PM	EVO	5.75%	85	0.9	12	
IW-A04	zone A	4:02:00 PM	5:25:00 PM	EVO	9.67%	150	1.8	8	
IW-A18	zone A	4:02:00 PM	4:32:00 PM	AW	9.67%	30	1.0	64	
IW-A18	zone A	4:32:00 PM	4:34:00 PM	DHC	1000%	0.20	0.1	64	
IW-A18	zone A	4:34:00 PM	5:29:00 PM	AW	9.67%	60	1.1	68	
Totals						4,001			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	25-Feb-21	Client:	PES	Personnel:	KH, KY, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,020 gallons of EVO solution, 270 gallons of anoxic water and 0.5 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B21	zone B2	9:03:00 AM	11:51:00 AM	EVO	9.67%	250	1.5	30	
IW-D19	zone D	9:03:00 AM	11:58:00 AM	EVO	9.67%	250	1.4	70	
IW-D18	zone D	9:03:00 AM	12:52:00 PM	EVO	9.67%	250	1.1	50	
IW-D14	zone D	9:03:00 AM	11:44:00 AM	EVO	9.67%	250	1.6	2	
IW-A03	zone A	9:03:00 AM	12:52:00 PM	EVO	9.67%	250	1.1	12	
IW-B01	zone B1	11:14:00 AM	1:40:00 PM	EVO	5.75%	250	1.7	24	
IW-B20	zone B2	12:16:00 PM	12:38:00 PM	AW	5.75%	30	1.4	34	
IW-B20	zone B2	12:38:00 PM	12:40:00 PM	DHC	1000%	0.15	0.1	34	
IW-B20	zone B2	12:40:00 PM	12:58:00 PM	AW	9.67%	60	3.3	34	
IW-B20	zone B2	12:58:00 PM	1:33:00 PM	EVO	9.67%	80	2.3	34	
IW-A20	zone A	12:16:00 PM	12:34:00 PM	AW	9.67%	30	1.7	64	
IW-A20	zone A	12:34:00 PM	12:36:00 PM	DHC	1000%	0.2	0.1	64	
IW-A20	zone A	12:36:00 PM	1:14:00 PM	AW	9.67%	60	1.6	64	
IW-A20	zone A	1:14:00 PM	3:39:00 PM	EVO	9.67%	140	1.0	64	
IW-B14	zone B1	12:16:00 PM	2:27:00 PM	EVO	5.75%	250	1.9	24	
IW-A18	zone A	1:27:00 PM	3:03:00 PM	EVO	9.67%	100	1.0	90	90 psi after 100 gallons; injection stopped
IW-A05	zone A	1:27:00 PM	3:58:00 PM	EVO	9.67%	250	1.7	12	
IW-C13	zone C	2:22:00 PM	3:39:00 PM	EVO	5.75%	50	0.6	32	
IW-C01	zone C	2:38:00 PM	4:50:00 PM	EVO	5.75%	250	1.9	60	
IW-D14	zone D	3:35:00 PM	4:50:00 PM	EVO	9.67%	125	1.7	22	
IW-B21	zone B2	3:35:00 PM	4:50:00 PM	EVO	9.67%	125	1.7	10	
IW-B14	zone B1	4:05:00 PM	4:24:00 PM	AW	5.75%	30	1.6	54	
IW-B14	zone B1	4:24:00 PM	4:26:00 PM	DHC	1000%	0.15	0.1	54	
IW-B14	zone B1	4:26:00 PM	4:50:00 PM	AW	5.75%	60	2.5	54	
IW-B14	zone B1	5:23:00 PM	5:48:00 PM	EVO	5.75%	50	2.0	54	
IW-A10	zone A	4:05:00 PM	4:50:00 PM	EVO	9.67%	100	2.2	4	
Totals						3,291			

NOTES:

mins = minutes
gal = gallons
psi = pounds per square inch
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	26-Feb-21	Client:	PES	Personnel:	KH, KK, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 2,677 gallons of EVO solution, 437 gallons of anoxic water and 0.8 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B21	zone B2	9:12:00 AM	10:52:00 AM	EVO	9.67%	250	2.5	14	
IW-D18	zone D	9:23:00 AM	10:16:00 AM	EVO	9.67%	50	0.9	90	
IW-A18	zone A	9:12:00 AM	9:58:00 AM	EVO	9.67%	75	1.6	74	
IW-B14	zone B1	9:12:00 AM	9:36:00 AM	EVO	5.75%	75	3.1		
IW-A10	zone A	9:12:00 AM	9:32:00 AM	AW	9.67%	30	1.5	4	
IW-A10	zone A	9:32:00 AM	9:34:00 AM	DHC	1000%	0.2	0.1	4	
IW-A10	zone A	9:34:00 AM	9:51:00 AM	AW	9.67%	60	3.5	4	
IW-A10	zone A	9:51:00 AM	11:21:00 AM	EVO	9.67%	200	2.2	4	
IW-C01	zone C	9:26:00 AM	11:19:00 AM	EVO	5.75%	250	2.2	60	
IW-D19	zone D	10:16:00 AM	10:26:00 AM	EVO	9.67%	2	0.2	90	injection stopped due to high pressure
IW-D18	zone D	10:43:00 AM	11:03:00 AM	AW	9.67%	15	0.8	70	
IW-D18	zone D	11:03:00 AM	11:05:00 AM	DHC	1000%	0.15	0.1	70	
IW-D18	zone D	11:05:00 AM	12:51:00 PM	AW	9.67%	60	0.6	70	
IW-B21	zone B2	11:12:00 AM	11:27:00 AM	AW	9.67%	30	2.0	16	
IW-B21	zone B2	11:27:00 AM	11:29:00 AM	DHC	1000%	0.15	0.1	16	
IW-B21	zone B2	11:29:00 AM	11:53:00 AM	AW	9.67%	60	2.5	16	
IW-B21	zone B2	11:53:00 AM	1:21:00 PM	EVO	9.67%	175	2.0	16	
IW-D20	zone D	11:41:00 AM	2:00:00 PM	EVO	9.67%	250	1.8	30	additional EVO injected at D20 due to high pressure at D19
IW-B01	zone B1	12:00:00 PM	2:27:00 PM	EVO	5.75%	250	1.7	10	
IW-D19	zone D	12:37:00 PM	12:47:00 PM	AW	9.67%	2	0.2	90	injection stopped due to high pressure
IW-D20	zone D	2:00:00 PM	2:17:00 PM	AW	9.67%	30	1.8	34	
IW-D20	zone D	2:17:00 PM	2:19:00 PM	DHC	1000%	0.15	0.1	34	additional DHC injected at D20 due to high pressure at D19
IW-D20	zone D	2:19:00 PM	2:54:00 PM	AW	9.67%	60	1.7	34	
IW-D20	zone D	2:54:00 PM	3:23:00 PM	EVO	9.67%	50	1.7	34	
IW-D14	zone D	3:10:00 PM	3:31:00 PM	AW	9.67%	30	1.4	20	
IW-D14	zone D	3:31:00 PM	3:33:00 PM	DHC	1000%	0.15	0.1	20	
IW-D14	zone D	3:33:00 PM	3:54:00 PM	AW	9.67%	60	2.9	20	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	26-Feb-21	Client:	PES	Personnel:	KH, KK, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 2,677 gallons of EVO solution, 437 gallons of anoxic water and 0.8 liters of DHC into 17 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D14	zone D	3:55:00 PM	5:21:00 PM	EVO	9.67%	175	2.0	28	
IW-C13	zone C	3:10:00 PM	5:36:00 PM	EVO	5.75%	125	0.9	44	
IW-B01	zone B1	3:17:00 PM	5:11:00 PM	EVO	5.75%	250	2.2	20	
IW-C01	zone C	3:17:00 PM	5:11:00 PM	EVO	5.75%	250	2.2	60	
IW-A08	zone A	3:47:00 PM	5:35:00 PM	EVO	9.67%	250	2.3	16	
Totals						3,115			

NOTES:

mins = minutes
psi = pounds per square inch
gal = gallons
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	27-Feb-21	Client:	PES	Personnel:	KH, KK, MM, RG
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 3,910 gallons of EVO solution, 360 gallons of anoxic water and 0.75 liters of DHC into 12 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C01	zone C	9:16:00 AM	11:18:00 AM	EVO	5.75%	250	2.0	56	
IW-B01	zone B1	9:16:00 AM	11:27:00 AM	EVO	5.75%	250	1.9	12	
IW-A05	zone A	9:16:00 AM	11:05:00 AM	EVO	9.67%	250	2.3	18	
IW-A04	zone A	11:38:00 AM	1:24:00 PM	EVO	9.67%	150	1.4	2	
IW-A08	zone A	9:26:00 AM	9:50:00 AM	AW	9.67%	30	1.3	36	
IW-A08	zone A	9:50:00 AM	9:52:00 AM	DHC	1000%	0.2	0.1	36	
IW-A08	zone A	9:52:00 AM	10:17:00 AM	AW	9.67%	60	2.4	36	
IW-A08	zone A	10:17:00 AM	11:04:00 AM	EVO	9.67%	110	2.3	34	
IW-C13	zone C	9:16:00 AM	1:24:00 PM	EVO	5.75%	500	2.0	60	
IW-D06	zone D	11:38:00 AM	1:39:00 PM	EVO	9.67%	250	2.1	34	
IW-A07	zone A	11:38:00 AM	1:39:00 PM	EVO	9.67%	250	2.1	12	
IW-A01	zone A	11:38:00 AM	1:39:00 PM	EVO	9.67%	250	2.1	4	
IW-D01	zone D	11:38:00 AM	12:00:00 PM	EVO	9.67%	25	1.1		
IW-A02	zone A	1:52:00 PM	5:21:00 PM	EVO	9.67%	500	2.4	8	
IW-A01	zone A	1:52:00 PM	3:53:00 PM	EVO	9.67%	250	2.1	10	
IW-A07	zone A	1:52:00 PM	3:57:00 PM	EVO	9.67%	250	2.0	16	
IW-A05	zone A	1:52:00 PM	2:49:00 PM	EVO	9.67%	125	2.2	20	
IW-A05	zone A	2:49:00 PM	3:10:00 PM	AW	9.67%	30	1.4	20	
IW-A05	zone A	3:10:00 PM	3:11:00 PM	DHC	1000%	0.2	0.2	20	
IW-A05	zone A	3:11:00 PM	3:43:00 PM	AW	9.67%	60	1.9	20	
IW-A05	zone A	3:33:00 PM	4:14:00 PM	EVO	9.67%	75	1.8	20	
IW-D06	zone D	2:12:00 PM	2:38:00 PM	EVO	9.67%	50	1.9	40	
IW-D06	zone D	2:38:00 PM	2:54:00 PM	AW	9.67%	30	1.9	40	
IW-D06	zone D	2:54:00 PM	2:55:00 PM	DHC	1000%	0.15	0.2	40	
IW-D06	zone D	2:55:00 PM	3:21:00 PM	AW	9.67%	60	2.3	40	
IW-D06	zone D	3:21:00 PM	4:07:00 PM	EVO	9.67%	75	1.6	40	
IW-C03	zone C	4:06:00 PM	5:47:00 PM	EVO	5.75%	250	2.5	30	
IW-A04	zone A	4:19:00 PM	4:42:00 PM	AW	9.67%	30	1.3	6	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	**Attachment E:** **2021 Treatment Program Daily Report**	ISOTEC

Date:	27-Feb-21	**Client:**	PES	**Personnel:**	KH, KK, MM, RG
Project #:	901312	**Location:**	Seattle, WA	**Weather:**	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8
-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO
- Injected 3,910 gallons of EVO solution, 360 gallons of anoxic water and 0.75 liters of DHC into 12 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A04	zone A	4:42:00 PM	4:44:00 PM	DHC	1000%	0.2	0.1	6	
IW-A04	zone A	4:44:00 PM	5:09:00 PM	AW	9.67%	60	2.4	6	
IW-A04	zone A	5:09:00 PM	5:36:00 PM	EVO	9.67%	50	1.9	6	
Totals						4,271			

NOTES:

mins = minutes
gal = gallons
psi = pounds per square inch
gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	28-Feb-21	Client:	PES	Personnel:	KH, KK, MM, PH
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A01	zone A	9:16:00 AM	11:02:00 AM	EVO	9.67%	250	2.4	6	
IW-A02	zone A	9:16:00 AM	11:02:00 AM	EVO	9.67%	250	2.4	10	
IW-B03	zone B1	9:16:00 AM	11:03:00 AM	EVO	5.75%	250	2.3	20	
IW-A07	zone A	9:16:00 AM	11:04:00 AM	EVO	9.67%	250	2.3	14	
IW-C13	zone C	9:01:00 AM	11:24:00 AM	EVO	5.75%	250	1.7	54	
IW-A06	zone A	10:32:00 AM	12:43:00 PM	EVO	9.67%	250	1.9	36	
IW-C01	zone C	11:30:00 AM	11:46:00 AM	AW	5.75%	30	1.9	62	
IW-C01	zone C	11:46:00 AM	11:48:00 AM	DHC	1000%	0.15	0.1	62	
IW-C01	zone C	11:48:00 AM	12:14:00 PM	AW	5.75%	60	2.3	62	
IW-C01	zone C	12:14:00 PM	12:39:00 PM	EVO	5.75%	50	2.0	60	
IW-B01	zone B1	11:30:00 AM	11:44:00 AM	AW	5.75%	30	2.1	24	
IW-B01	zone B1	11:44:00 AM	11:46:00 AM	DHC	1000%	0.15	0.1	24	
IW-B01	zone B1	11:46:00 AM	12:11:00 PM	AW	5.75%	60	2.4	24	
IW-B01	zone B1	12:11:00 PM	12:31:00 PM	EVO	5.75%	50	2.5	12	
IW-C03	zone C	11:30:00 AM	1:21:00 PM	EVO	5.75%	250	2.3	70	
IW-C07	zone C	11:30:00 AM	11:43:00 AM	AW	5.75%	30	2.3	44	
IW-C07	zone C	11:43:00 AM	11:45:00 AM	DHC	1000%	0.15	0.1	44	
IW-C07	zone C	11:45:00 AM	12:14:00 PM	AW	5.75%	60	2.1	44	
IW-C07	zone C	12:14:00 PM	12:34:00 PM	EVO	5.75%	40	2.0	44	
IW-C13	zone C	11:50:00 AM	12:10:00 PM	AW	5.75%	30	1.5	58	
IW-C13	zone C	12:10:00 PM	12:12:00 PM	DHC	1000%	0.15	0.1	58	
IW-C13	zone C	12:12:00 PM	12:38:00 PM	AW	5.75%	60	2.3	58	
IW-C13	zone C	12:38:00 PM	1:10:00 PM	EVO	5.75%	45	1.4	54	
IW-A01	zone A	1:05:00 PM	3:07:00 PM	EVO	9.67%	250	2.0	8	
IW-A02	zone A	1:05:00 PM	3:12:00 PM	EVO	9.67%	250	2.0	14	
IW-B06	zone B1	1:05:00 PM	4:13:00 PM	EVO	5.75%	250	1.3	70	
IW-A07	zone A	1:05:00 PM	3:15:00 PM	EVO	9.67%	250	1.9	14	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	28-Feb-21	Client:	PES	Personnel:	KH, KK, MM, PH
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 50-55° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-C05	zone C	1:45:00 PM	2:10:00 PM	EVO	5.75%	50	2.0	54	
IW-D18	zone D	1:36:00 PM	4:00:00 PM	EVO	9.67%	70	0.5	90	90 psi after 70 gallons; injection stopped due to high pressure
IW-C04	zone C	2:28:00 PM	2:49:00 PM	AW	5.75%	30	1.4	8	
IW-C04	zone C	2:49:00 PM	2:51:00 PM	DHC	1000%	0.15	0.1	8	
IW-C04	zone C	2:51:00 PM	3:22:00 PM	AW	5.75%	60	1.9	8	
IW-C04	zone C	3:22:00 PM	3:58:00 PM	EVO	5.75%	60	1.7	16	
IW-A03	zone A	3:40:00 PM	5:38:00 PM	EVO	9.67%	250	2.1	10	
IW-D01	zone D	3:54:00 PM	4:04:00 PM	EVO	9.67%	2	0.2	2	packer installed at 10 feet bgs; 90 psi after 2 gallons; injection stopped due to high pressure; well obstruction at 59 feet bgs
IW-A07	zone A	4:35:00 PM	5:46:00 PM	EVO	9.67%	150	2.1	20	
IW-A06	zone A	4:38:00 PM	5:39:00 PM	EVO	9.67%	150	2.5	36	
IW-D17	zone D	4:35:00 PM	5:54:00 PM	EVO	9.67%	180	2.3	50	additional EVO injected at D17 due to high pressure at D18
Totals						4,298			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	1-Mar-21	Client:	PES	Personnel:	KH, KK, MM, PH
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 55-60° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 4,425 gallons of EVO solution, 540 gallons of anoxic water and 1.1 liters of DHC into 10 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-A01	zone A	8:59:00 AM	10:58:00 AM	EVO	9.67%	250	2.1	16	
IW-A03	zone A	8:59:00 AM	10:52:00 AM	EVO	9.67%	250	2.2	12	
IW-B03	zone B1	8:59:00 AM	11:03:00 AM	EVO	5.75%	250	2.0	24	
IW-A06	zone A	8:59:00 AM	1:08:00 PM	EVO	9.67%	500	2.0	20	
IW-B06	zone B1	8:59:00 AM	11:17:00 AM	EVO	5.75%	250	1.8	62	
IW-A07	zone A	8:59:00 AM	9:18:00 AM	AW	9.67%	30	1.6	14	
IW-A07	zone A	9:18:00 AM	9:19:00 AM	DHC	1000%	0.2	0.2	14	
IW-A07	zone A	9:19:00 AM	9:52:00 AM	AW	9.67%	60	1.8	14	
IW-A07	zone A	9:52:00 AM	10:23:00 AM	EVO	9.67%	50	1.6	14	
IW-A02	zone A	11:20:00 AM	1:19:00 PM	EVO	9.67%	250	2.1	14	
IW-D02	zone D	11:20:00 AM	2:57:00 PM	EVO	9.67%	500	2.3	24	additional EVO injected at D02 due to well obstruction at D01
IW-C03	zone C	11:20:00 AM	1:27:00 PM	EVO	5.75%	250	2.0	68	
IW-B02	zone B1	1:40:00 PM	3:29:00 PM	EVO	5.75%	250	2.3	10	
IW-B03	zone B1	1:40:00 PM	3:22:00 PM	EVO	5.75%	250	2.5	24	
IW-B06	zone B1	1:40:00 PM	4:14:00 PM	EVO	5.75%	250	1.6	64	
IW-A01	zone A	1:40:00 PM	1:57:00 PM	AW	9.67%	30	1.8	18	
IW-A01	zone A	1:57:00 PM	1:59:00 PM	DHC	1000%	0.2	0.1	18	
IW-A01	zone A	1:59:00 PM	2:26:00 PM	AW	9.67%	60	2.2	18	
IW-A01	zone A	2:26:00 PM	3:51:00 PM	EVO	9.67%	200	2.4	18	
IW-A03	zone A	1:49:00 PM	2:03:00 PM	AW	9.67%	30	2.1	14	
IW-A03	zone A	2:03:00 PM	2:04:00 PM	DHC	1000%	0.2	0.2	14	
IW-A03	zone A	2:04:00 PM	2:32:00 PM	AW	9.67%	60	2.1	14	
IW-A03	zone A	2:32:00 PM	3:42:00 PM	EVO	9.67%	150	2.1	20	
IW-A02	zone A	3:10:00 PM	3:24:00 PM	AW	9.67%	30	2.1	10	
IW-A02	zone A	3:24:00 PM	3:25:00 PM	DHC	1000%	0.2	0.2	10	
IW-A02	zone A	3:25:00 PM	3:59:00 PM	AW	9.67%	60	1.8	10	
IW-A02	zone A	3:59:00 PM	5:38:00 PM	EVO	9.67%	180	1.8	12	
IW-B03	zone B1	4:05:00 PM	4:21:00 PM	AW	5.75%	30	1.9	26	
IW-B03	zone B1	4:21:00 PM	4:23:00 PM	DHC	1000%	0.15	0.1	26	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	1-Mar-21	Client:	PES	Personnel:	KH, KK, MM, PH
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 55-60° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 4,425 gallons of EVO solution, 540 gallons of anoxic water and 1.1 liters of DHC into 10 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-B03	zone B1	4:23:00 PM	4:48:00 PM	AW	5.75%	60	2.4	26	
IW-B03	zone B1	4:48:00 PM	5:20:00 PM	EVO	5.75%	50	1.6	24	
IW-C03	zone C	3:43:00 PM	4:01:00 PM	AW	5.75%	30	1.7	60	
IW-C03	zone C	4:01:00 PM	4:02:00 PM	DHC	1000%	0.15	0.1	60	
IW-C03	zone C	4:02:00 PM	4:27:00 PM	AW	5.75%	60	2.4	60	
IW-C03	zone C	4:27:00 PM	5:02:00 PM	EVO	5.75%	45	1.3	68	
IW-D02	zone D	3:51:00 PM	5:46:00 PM	EVO	9.67%	250	2.2	18	additional EVO injected at D02 due to well obstruction at D01
IW-A06	zone A	4:02:00 PM	5:55:00 PM	EVO	9.67%	250	2.2	14	
Totals						4,966			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Attachment E: 2021 Treatment Program Daily Report	ISOTEC

Date:	2-Mar-21	Client:	PES	Personnel:	KH, KK, MM, PH
Project #:	901312	Location:	Seattle, WA	Weather:	Partly cloudy, 55-60° F

Major Work Activities Performed:

-Inspection of P2 and P3 levels for seeps. Slight seepage on P3 from concrete wall near IW-A18 and seam in concrete floor near CAD8

-Set up mixing and injection equipment, prepared batches of 9.7 and 5.75% SRS-SD EVO

- Injected 648 gallons of EVO solution, 180 gallons of anoxic water and 0.35 liters of DHC into 3 injection screens

Injection Point ID	Interval	Injection Start Time	Injection Stop Time	Injectant	EVO Dosage	Injection Volume (gallons)	Injection Flow Rate (gpm)	Maximum Pressure (psi)	Comments
IW-D02	zone D	9:08:00 AM	10:13:00 AM	EVO	9.67%	133	2.0	20	
IW-A06	zone A	9:00:00 AM	11:15:00 AM	EVO	9.67%	250	1.9	2	
IW-A06	zone A	11:15:00 AM	11:29:00 AM	AW	9.67%	30	2.1	2	
IW-A06	zone A	11:29:00 AM	11:31:00 AM	DHC	1000%	0.2	0.1	2	
IW-A06	zone A	11:31:00 AM	12:00:00 PM	AW	9.67%	60	2.1	2	
IW-A06	zone A	12:00:00 PM	12:29:00 PM	EVO	9.67%	50	1.7	4	
IW-B06	zone B1	8:35:00 AM	10:06:00 AM	EVO	5.75%	165	1.8	54	
IW-B06	zone B1	10:06:00 AM	10:22:00 AM	AW	5.75%	30	1.9	54	
IW-B06	zone B1	10:22:00 AM	10:24:00 AM	DHC	1000%	0.15	0.1	54	
IW-B06	zone B1	10:24:00 AM	10:54:00 AM	AW	5.75%	60	2.0	54	
IW-B06	zone B1	10:54:00 AM	11:21:00 AM	EVO	5.75%	50	1.9	50	
Totals						828			

NOTES:

mins = minutes

psi = pounds per square inch

gal = gallons

gpm = gallons per minute

CONTINGENT ACTION ADDENDUM PLAN INJECTIONS – PARKING LEVEL P3 ENHANCED REDUCTIVE DECHLORINATION SUMMARY REPORT

FORMER AMERICAN LINEN FACILITY
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON

JANUARY 11, 2023

PREPARED FOR

PES ENVIRONMENTAL, INC. 2101 FOURTH AVENUE, SUITE 1310 SEATTLE, WA

ISOTEC PROJECT NO. 901312

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SBA Certified Small Business

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1.0 EXECUTIVE SUMMARY

In-Situ Oxidative Technologies, Inc. (ISOTEC) was retained by PES Environmental, an NV5 Company (PES) to perform an in-situ bioremediation treatment program via enhanced reductive dichlorination (ERD) at the Former American Linen Facility site in Seattle, Washington. The treatment program targeted injection wells installed on parking level P3 of the building, located northeast of the intersection of Roy Street and Dexter Avenue North. As a result of former on-site operations, site soils and groundwater are impacted by chlorinated volatile organic compounds (CVOCs), primarily tetrachloroethene (PCE) along with trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), and vinyl chloride (VC). The remediation activities detailed in this summary report were performed in accordance with the Contingent Action Addendum Plan (CAA).

For this treatment event, ISOTEC utilized 63 injection wells on Parking Level – P3 which were previously installed by PES. The basement injection wells allowed ERD solutions to be applied into 4 vertical treatment intervals, Zones A, B, C, and D, which are consistent with the 4 vertical treatment zones identified on the property. The injection wells were installed in four subareas of the basement: a column of injection wells oriented north-south on the west side of the building footprint, a column of injection wells oriented in the middle of the building, a group of 6 injection wells in the northeast corner of the building footprint, and a group of 6 injection wells in the southeast corner of the building footprint. The Contingent Action Addendum Plan wells are shown on **Figure 1**. The objectives of the CAA in-situ treatment were to reduce the mass of CVOC contaminants remaining in saturated soil and groundwater on the Property and to provide for continued treatment of residual source area contamination after the property development activities.

2.0 ISOTEC REMEDIATION ACTIVITIES

ISOTEC performed in-situ remediation activities at the adjacent Former American Linen Facility from 2018 to 2022, including three rounds of source area in-situ chemical oxidation (ISCO) between September 2018 and January 2019, source area in-situ bioremediation via enhanced reductive dichlorination (ERD) in February 2019, and in-situ bioremediation permeable reactive barriers (PRBs) along Roy Street and 8th Ave North in October 2020 and February 2021. Modified Fenton's Reagent, consisting of hydrogen peroxide with stabilizers and proprietary chelated iron complex catalysts to catalyze the hydrogen peroxide was the implemented ISCO technology. In-situ bioremediation within the source area and PRBs utilized emulsified vegetable oil (EVO) as the primary carbon substrate electron donor and anaerobic dechlorinating bacteria for bioaugmentation. In April 2022, ISOTEC also performed an ERD injection on the Seattle DOT Mercer Parcel, which is located south of Roy Street and hydraulically downgradient of the American Linen Facility, where EVO, EVO with zero valet iron, and bioaugmentation culture with dechlorinating bacteria were injected into 10 injection wells.

3.0 BIOREMEDIATION PROGRAM APPROACH

3.1 BIOREMEDIATION PROGRAM OBJECTIVES

The primary objective of the basement ERD treatment was to continue to treat CVOCs in groundwater and saturated soil following the ERD injection performed in 2019 prior to construction of the building onsite. Continued bioremediation via ERD was selected to treat CVOCs consistent with the CAA Plan and based on the successful use of this technology from the 2019 injections.

3.2 BIOREMEDIATION PROGRAM DESIGN

The bioremediation program was designed to continue to the treat the remaining CVOCs in the groundwater and saturated soil located beneath the basement of the building for an extended period (>3 years) with parameters consistent with IAWP Section 11.4.2. A total of 63 injections wells were installed with future remediation injections events in mind, therefore the first round of injections in the CAA injections wells would be performed such that all injection wells are available for future injections (e.g., injection pressure and water flushing to minimize biofouling). Calculations used in the 2019 injection and the perimeter PRBs were developed using the Substrate Estimating Tool for ESTCP and were revisited for this event based on the data received from the recent 2022 event.

4.0 TECHNOLOGY OVERVIEW

Implementation of ERD technology at the site consisted of the subsurface injection of carbon substrates, pH buffers, supplemental nutrients, and dechlorinating bacteria to establish groundwater conditions suitable for biodegradation CVOCs within the treatment area.

4.1 DESCRIPTION OF AMENDMENTS

The amendments injected during the bioremediation program include:

- **Carbon Substrate:** The amendment utilized for the basement well injections was emulsified vegetable oil (EVO). EVO was procured from Terra Systems, Inc in the formulation SRS-SD®, which is the same EVO amendment used for Source Area EVO injection on the property and the perimeter injection wells. SRS-SD® is an EVO with small oil droplets (median size 0.5 micron) commonly used for injection into sites with silts and other low permeability soils. This formulation is comprised of 60% soybean oil, 4-5% sodium lactate, 5-15% emulsifiers, nutrients, Vitamin B12, and water.
- **Ferrous Sulfide (FeS):** Ferrous sulfide abiotically dechlorinates CVOCs with reactions that do not generate lesser chlorinated ethenes (cis-1,2-DCE and vinyl chloride). FeS increases *Dehalococcoides* (DHC – bacteria used), population and degradation rate has also been observed in lab studies when adding ferrous sulfide (Li, Zhao, & Zhu; 2021).
- **pH Buffers:** Food-grade sodium bicarbonate was procured from Terra Systems, Inc. to provide short-term pH buffering, respectively, and maintain groundwater pH in a range favorable for the viability of dechlorinating bacteria.

- **Supplemental Nutrients:** Nutrimax, a power blend of nutrients and additives that contain nitrogen, phosphorus, and sulfate, was procured from Terra Systems, Inc. to aid bacteria growth and support abiotic degradation. The nitrogen and phosphorus accelerate biodegradation processes while the sulfate facilitates abiotic degradation via the formation of iron sulfide precipitates.
- **Dechlorinating Bacteria:** KB-1® and KB-1® Primer were procured from SiREM for the bioaugmentation phase of the bioremediation program. KB-1® is a non-pathogenic microbial culture that contains Dehalococcoides (DHC) bacteria, which is the only known bacteria that can fully dechlorinate PCE to non-toxic ethene. KB-1® Primer was used to prepare anaerobic water (dissolved oxygen less than 1 mg/L) to disperse electron donors and protect the DHC culture during the injection process at each well.

5.0 BIOREMEDIATION PROGRAM IMPLEMENTATION

Field activities associated with this bioremediation program were completed over two phases, with a total of 26 days, 24 injections days, one day for mobilization and one day for demobilization. The specific field activities completed include equipment mobilization and demobilization, reagent preparation, and reagent injections. These activities are described in detail in the following sections.

5.1 MOBILIZATION AND DEMOBILIZATION

Mobilization activities included transportation and staging of ISOTEC and rental equipment, materials, instruments, personnel, and services required for implementing the treatment program at the site. Equipment was shipped to the site and moved with a forklift to the designated staging location on basement level P3. EISD reagents needed to prepare injection solutions, such as the totes of EVO and FeS and pallets of dry chemical were delivered to the site in a single truck and off-loaded with a pallet jack and forklift. The SRS-SD®, FeS, Nutrimax and sodium bicarbonate were stored within a portable secondary containment berm adjacent to the equipment/injection staging area. Copies of the safety data sheets (SDS) for each chemical utilized at the site were maintained onsite during the injection program. Demobilization activities included removal of all staged equipment, materials, instruments, personnel, generated waste, and services from the site at the end of the bioremediation program.

5.2 REAGENT PREPARATION

Reagents were prepared onsite using industry standard and commonly used chemical storage and handling equipment. All chemicals were staged near the mixing area so that the EVO and FeS were transferred via diaphragm pumps and reinforced hose. Polyethylene mixing tanks and drums staged within portable secondary containment berms were used to prepare reagent solutions. Electric mixing motors were used to thoroughly mix and solubilize powdered components (sodium bicarbonate, and Nutrimax). Liquid components were transferred to mixing drums and tanks air-powered diaphragm pumps. Dilution water for all prepared reagents was obtained from a spigot in the basement building. Properly calibrated site gauges and flow meters were used to precisely measure the volume of liquid components needed to prepare the required reagent concentrations. Similarly, calibrated digital scales and graduated measuring containers were used to accurately weigh powdered components. To the

extent possible, reagents were prepared on an as-needed basis to minimize the volume of reagent stored onsite at any given time.

5.3 INJECTION METHOD

Reagents were conveyed from mixing tanks to each injection point with air operated diaphragm pumps. Wellhead assemblies, with influent injection ports, ball valves, and pressure gauges, were securely attached were tightly threaded to the injection well casing. Each wellhead assembly was connected to the discharge outlet on a diaphragm pump via reinforced PVC tubing. The diaphragm pump suction inlet was connected to a drop tube assembly via wire-wrap PVC tubing. After the drop tube assembly was inserted into a mixing tank and the pump was activated, reagent was dispensed through the tubing, pump, wellhead, and injection screen and into the target treatment zone.

In general, the injection sequence was similar for each injection point. First, a low volume of water (~10 to 20 gallons) was injected to leak test the tubing and injection equipment. This initial water flush was immediately followed by reagent. Once the target volume of reagent was injected a second water flush was initiated to displace all reagent from the tubing and injection equipment.

Reagent volumes, flow rates, and injection pressures were monitored at regular intervals and recorded in a field log during the injection process at each injection point. Reagent volumes and flow rates were measured with battery-operated turbine flow meters/totalizers. Injection pressures were measured with pressure gauges attached to the wellhead assemblies

5.4 AMENDMENT QUANTITIES AND INJECTION SEQUENCE

Subsurface injections progressed sequentially in two phases. Substrate loading was completed first followed by bioaugmentation. During the substrate loading phase, an aqueous solution comprised of carbon substrates (EVO), pH buffers, supplemental nutrients, iron sulfide (FeS), and dilution water (collectively referred to as EVO injectate solution) was injected to establish anaerobic conditions within the treatment zone. During the first two days of injection, ISOTEC performed an initial injection well assessment, where 30 to 60 gallons of EVO solution was attempted at each of the 63 injection wells to record initial injection pressure and flow rate in order to guide sequencing for the remainder of the treatment program.

Bioaugmentation followed with the injection of anaerobic water and DHC bacteria to accelerate the rate of CVOC degradation. All the proposed EVO volume was injected first then anaerobic water, followed by the DHC culture, and finished with a flush of anaerobic water.

Table 1. Design EVO Solution Per 60-gallon Batch

SRS-SD® (60% soybean oil EVO reagent) (gallons)	**FeS** (9% FeS by weight) (gallons)	**Sodium Bicarbonate** Buffer (pounds)	**Nutrimax** (N&P nutrients with sulfate) (pounds)
8	1.7	5	1.4

Table 2. Design Bioaugmentation Per Well

Deoxygenated Water (gallons)	KB-1 (liters)
100	1.5

5.5 INJECTION ACTIVITIES

The Contingent Action Injections – Parking Level P3 ERD treatment Program was completed in two phases: Phase 1 before Thanksgiving holiday and Phase 2 after Thanksgiving holiday. ISOTEC mobilized to the site on November 8, 2022, and injection activities commenced the following day. Injection activities were completed in 24 days, with injection operations during the hours of 0700 – 1630 for the duration of the project. For each injection location, ISOTEC used a diaphragm pump fitted with an inlet, and outlet vent ports, and a pressure gauge. Reinforced hoses were connected to each pump and up to 4 pumps were used simultaneously to distribute reagent throughout the area.

During the first phase, injections began on November 9 and ISOTEC injected the EVO solution at an 8.2% concentration mix with the FeS, NutriMax, and sodium bicarbonate. Flow rates were kept between 1 to 2 gallons per minute (gpm) on wells with pressures below 40psi. Higher flow rates were not attempted regardless of how low the pressure was. If the injection pressure was greater than 40psi, flow rates were adjusted to keep pressures below 40psi and if the pumps were not able to inject at or below 1 gpm and maintain a pressure less than 40psi, injections were stopped. All 63 injection locations were attempted, and observations were made on flow rate, injection pressure, and day lighting. A total of 18,750 gallons were injected during the first phase.

For the second phase after the Thanksgiving holiday, FeS was no longer used due to odor complaints from smell within the building. The EVO concentration was not changed. Injection locations that were stopped due to pressure during the first phase were reattempted. The EVO solution was injected at a rate that kept pressures as low as possible and pressures were observed in the range of 16 to 80 psi.

The entire proposed quantity of EVO was injected into 60 of 63 injection wells. Injection wells IW-B01 and IW-C11 were unable to receive injections solutions (25 and 50 gallons of diluted EVO, respectively). Well IW-C12 received 285 gallons of EVO solution (approximately one-half of SRS-SD) along with bioaugmentation of DHC. The remaining SRS-SD from the 3 wells were divided into 21 injection wells with an average of 12 gallons of additional SRS-SD applied to each (compared with design target of 106 gallons of SRS-SD per injection well). EISD reagents intended for well IW-B01 was applied to nearby B Zone injection wells (IW-B02 through IW-B05) and to A Zone wells immediately above (IW-A01 and IW-A02). EISD reagents not used in wells IW-C11 and IW-C12 were distributed to adjacent C Zone injection wells (IW-C09 and IW-C13), B Zone and D Zone injection wells above and below where elevated CVOCs have been detected (IW-B11, IW-B12, IW-B13, IW-D06, IW-D07, IW-D08).

At the completion of the EVO injection, bioaugmentation was conducted at all wells consisting of a 30-gallon flush of anoxic water, DHC culture, and completed by an additional 70-gallon flush of anoxic water. ISOTEC spread out the active injection wells throughout the four treatment zones (zones A, B, C, and D) to minimize pore volume saturation and localized mounding which can result in elevated injection pressures and/or daylighting of injection solutions. 29,925 gallons were injected during the second phase, and a total of 48,675 gallons was injected over 24 injection days. The treatment program was completed without injury or damage to equipment or property.

Demobilization activities included removal of all ISOTEC equipment, materials, and personnel. Empty totes were left behind to be picked up later by others. All reagent materials were injected safely and without incident.

Table 3. Overview of Bioremediation Program Field Activities

Task	Dates Completed
Equipment Mobilization	November 8
Reagent Injection I	November 9 - 18
Break	November 19 - 28
Reagent Injection phase II	November 29 – December 15
Equipment Demobilization	December 16

6.0 OBSERVATIONS AND CONCLUSIONS

The Contingent Action Injections – Parking Level P3 treatment program was successful at delivering reagent solutions to all four injection zones. Out of the 63 wells, 34 injection wells (54%) received injected solutions at pressures of 40 psi or less, while injecting the EVO solution at a flow rate of 1-2gpm. Another 13 injection wells (21%) received injected solutions at pressures greater than 40 psi and with flow rates below 1 gpm. The remaining 12 wells (5%) received injection at pressures of approximately 80 psi regardless of how slow the flow rate was, and low flow injection was performed at these wells in order to deliver EISD reagents.

ISOTEC made numerous adjustments to the injection strategy to optimize injection productivity and maintain low injection pressures. Future injection events should follow ISOTEC's approach used in Fall 2022. Key features included the following:

- Maintaining injection flow rate of 1-2gpm. Lower injection pressures are recommended.
- Spreading active injection points out spatially to the extent practicable. Not injecting on adjacent injection points is recommended. Injection into two different Treatment Zone screens can be performed on the same day; it is recommended to allow 1 to 3 hours gap between when possible.

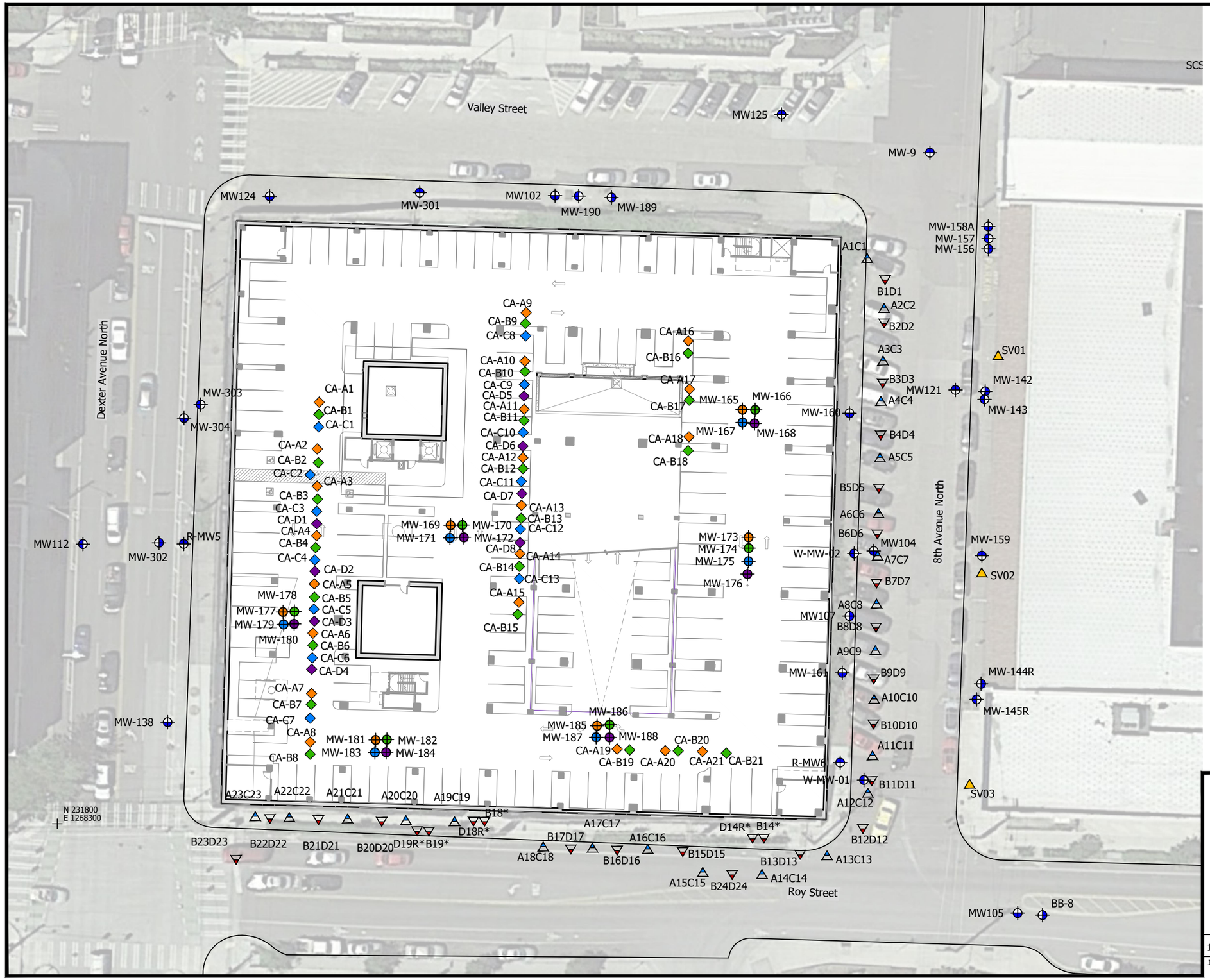
Injection into Treatment Zone A encountered lower pressure and higher injection flow rate compared to other Treatment Zones. Zone C experienced the highest average injection pressure and lowest

average flow rates. Injection pressures and flow rates are summarized for the injection wells in each Injection Zone below.

Table 4. Overview of Bioremediation Injection by Zone

Injection Zone	Wells	Average Flow Rate (gpm)	Flow Range (gpm)	Maximum Pressure Range (psi)	Average Maximum Pressure (psi)
Zone A	21	1.65	1.4 – 1.9	26 – 80	45
Zone B	20	1.36	1.0 – 1.8	30 – 80	65
Zone C	12	1.02	0.66 – 1.6	60 – 84	77
Zone D	8	1.36	0.95 – 1.83	20 – 80	58

FIGURES



Explanation

MW121	Shallow Zone Monitoring Well
MW116	Intermediate A Zone Monitoring Well
W-MW-02	Intermediate B Zone Monitoring Well
MW105	Deep Zone Monitoring Well
MW-165	Treatment Zone A Monitoring Well
MW-166	Treatment Zone B Monitoring Well
MW-167	Treatment Zone C Monitoring Well
MW-168	Treatment Zone D Monitoring Well
CA-A10	Treatment Zone A CAA Injection Well
CA-B10	Treatment Zone B CAA Injection Well
CA-C9	Treatment Zone C CAA Injection Well
CA-D5	Treatment Zone D CAA Injection Well
	Type 1 Perimeter Injection Well
	Type 2 Perimeter Injection Well
N 231800 E 1268300	Coordinate Reference Point (NAD83, Washington State Plane North, US Feet)

24 On-Property CAA Monitoring Wells
45 Off-Property IA Monitoring Wells
63 On-Property CAA Injection Wells
94 Perimeter Injection Wells

N

0 40

SCALE IN FEET

Note: The original version of this figure includes color-designated features. A black and white copy of the figure may not accurately represent the information originally presented.

PES Environmental, Inc.
Engineering & Environmental Services

Interim Action Monitoring and Perimeter Injection Well Logistics Plan
American Linen Supply Co. - Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE 1

1413.001.02.101	141300102101_LP_1	DRAFT	9/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

ATTACHMENT A

P3 ERD INJECTION LOCATION VOLUME TOTALS TABLE

P3 Injection Location Reagent Totals
PES - American Linen Site
Seattle, WA
ISOTEC Project #901312

Updated: 14-Dec

Injection Point ID	EVO Injected (gal)	EVO+ Injected (gal)	EVO- Injected (gal)	Anoxic Water Injected (gal)	DHC Injected (ml)	Total Volume Injected (gal)	Buffer Used (lbs)	60% EVO Used (gal)	TSI-FSA Used (gal)	Nutrimax Used (lbs)	Injection Attempts	Average Flow Rate (gpm)	Maximum Pressure (psi)
IW-A01	60	240	475	100	225	875	72.0	119.5	8.7	20.6	11	1.87	32
IW-A02	60	340	375	100	150	875	72.0	119.5	12.0	20.6	12	1.78	36
IW-A03	0	215	460	100	150	775	63.8	105.8	7.1	18.2	11	1.53	78
IW-A04	60	380	300	100	150	840	69.1	114.7	13.3	19.8	11	1.42	76
IW-A05	60	325	315	100	150	800	65.8	109.3	11.5	18.8	12	1.56	40
IW-A06	60	360	255	100	150	775	63.8	105.8	12.7	18.2	10	1.56	46
IW-A07	60	210	405	100	150	775	63.8	105.8	7.7	18.2	11	1.70	58
IW-A08	60	150	465	100	150	775	63.8	105.8	5.7	18.2	11	1.72	54
IW-A09	60	320	295	100	150	775	63.8	105.8	11.3	18.2	11	1.60	30
IW-A10	55	435	185	100	150	775	63.8	105.8	15.1	18.2	11	1.66	32
IW-A11	60	360	255	100	150	775	63.8	105.8	12.7	18.2	10	1.77	30
IW-A12	90	240	345	100	150	775	63.8	105.8	9.0	18.2	10	1.72	26
IW-A13	60	360	255	100	150	775	63.8	105.8	12.7	18.2	10	1.80	34
IW-A14	60	240	375	100	150	775	63.8	105.8	8.7	18.2	11	1.66	40
IW-A15	35	255	385	100	150	775	63.8	105.8	8.9	18.2	11	1.48	42
IW-A16	40	240	395	100	150	775	63.8	105.8	8.4	18.2	11	1.73	30
IW-A17	60	360	255	100	150	775	63.8	105.8	12.7	18.2	10	1.76	30
IW-A18	0	0	675	100	150	775	63.8	105.8	0.0	18.2	10	1.45	80
IW-A19	80	120	475	100	150	775	63.8	105.8	4.9	18.2	10	1.72	56
IW-A20	60	35	580	100	150	775	63.8	105.8	1.9	18.2	11	1.64	40
IW-A21	60	0	615	100	150	775	63.8	105.8	0.7	18.2	10	1.57	60
IW-B01	0	0	25	0	0	25	2.1	3.4	0.0	0.6	3	0.12	100
IW-B02	0	0	775	100	225	875	72.0	119.5	0.0	20.6	11	1.40	80
IW-B03	60	210	505	100	225	875	72.0	119.5	7.7	20.6	13	1.12	68
IW-B04	15	30	730	100	150	875	72.0	119.5	1.2	20.6	13	1.27	72
IW-B05	60	160	555	100	150	875	72.0	119.5	6.0	20.6	12	1.57	50
IW-B06	10	0	665	100	150	775	63.8	105.8	0.1	18.2	12	1.13	80
IW-B07	60	180	535	100	150	875	72.0	119.5	6.7	20.6	13	1.49	60
IW-B08	10	20	745	100	225	875	72.0	119.5	0.8	20.6	14	1.38	70
IW-B09	60	185	430	100	150	775	63.8	105.8	6.9	18.2	14	1.08	68
IW-B10	60	240	375	100	150	775	63.8	105.8	8.7	18.2	11	1.31	74
IW-B11	30	180	595	100	150	905	74.5	123.6	6.3	21.3	13	1.52	70
IW-B12	20	0	695	100	150	815	67.1	111.3	0.2	19.2	10	1.22	66
IW-B13	0	180	645	100	150	925	76.1	126.3	6.0	21.8	13	1.47	60
IW-B14	25	180	470	100	150	775	63.8	105.8	6.3	18.2	12	1.28	70

P3 Injection Location Reagent Totals

PES - American Linen Site

Seattle, WA

ISOTEC Project #901312

Updated: 14-Dec

Injection Point ID	EVO Injected (gal)	EVO+ Injected (gal)	EVO- Injected (gal)	Anoxic Water Injected (gal)	DHC Injected (ml)	Total Volume Injected (gal)	Buffer Used (lbs)	60% EVO Used (gal)	TSI-FSA Used (gal)	Nutrimax Used (lbs)	Injection Attempts	Average Flow Rate (gpm)	Maximum Pressure (psi)
IW-B15	0	0	690	100	150	790	65.0	107.9	0.0	18.6	11	1.09	80
IW-B16	60	240	375	100	150	775	63.8	105.8	8.7	18.2	11	1.76	30
IW-B17	120	240	315	100	150	775	63.8	105.8	9.4	18.2	11	1.55	40
IW-B18	60	300	315	100	150	775	63.8	105.8	10.7	18.2	12	1.42	48
IW-B19	60	25	590	100	150	775	63.8	105.8	1.5	18.2	13	1.31	74
IW-B20	60	0	615	100	150	775	63.8	105.8	0.7	18.2	11	1.26	76
IW-B21	60	0	615	100	150	775	63.8	105.8	0.7	18.2	11	1.52	58
IW-C01	80	140	455	100	150	775	63.8	105.8	5.6	18.2	14	0.75	80
IW-C02	60	105	510	50	150	725	59.7	99.0	4.2	17.0	13	0.66	84
IW-C03	60	180	435	100	150	775	63.8	105.8	6.7	18.2	15	1.01	84
IW-C04	45	100	530	100	150	775	63.8	105.8	3.9	18.2	15	0.90	80
IW-C05	60	355	260	100	150	775	63.8	105.8	12.5	18.2	11	1.55	60
IW-C06	50	240	385	100	150	775	63.8	105.8	8.6	18.2	12	1.19	72
IW-C07	60	150	465	100	150	775	63.8	105.8	5.7	18.2	12	1.24	76
IW-C08	5	40	655	100	150	800	65.8	109.3	1.4	18.8	14	0.86	80
IW-C09	5	120	680	100	150	905	74.5	123.6	4.0	21.3	13	1.36	65
IW-C10	30	0	525	100	150	655	53.9	89.5	0.4	15.4	13	0.77	80
IW-C11	0	0	50	25	0	75	6.2	10.2	0.0	1.8	4	0.29	90
IW-C12	0	0	285	100	150	385	31.7	52.6	0.0	9.1	8	0.86	84
IW-C13	0	0	875	100	150	975	80.2	133.2	0.0	22.9	14	1.15	80
IW-D01	60	130	485	100	150	775	63.8	105.8	5.0	18.2	12	1.11	80
IW-D02	60	230	385	100	150	775	63.8	105.8	8.3	18.2	12	1.20	72
IW-D03	60	240	385	100	150	785	64.6	107.2	8.7	18.5	13	1.10	74
IW-D04	60	120	495	100	150	775	63.8	105.8	4.7	18.2	10	1.83	20
IW-D05	55	130	490	100	150	775	63.8	105.8	5.0	18.2	12	0.95	78
IW-D06	90	0	605	100	150	795	65.4	108.6	1.1	18.7	9	1.55	36
IW-D07	60	285	480	100	150	925	76.1	126.3	10.2	21.8	12	1.34	66
IW-D08	60	340	375	100	150	875	72.0	119.5	12.0	20.6	11	1.81	40
Totals:	2,930	10,460	29,210	6,075	9,450	48,675	4,006	6,648	381.9	1,144.6	718	1.35	

Notes:

gal = Gallons

lbs = Pounds

ft = Feet

ml = Milliliters

EVO = Emulsified Vegetable Oil (standard TSI-FSA)

EVO+ = EVO with 3x concentrated TSI-FSA

EVO- = EVO with no TSI-FSA

EVO Totals:

Zone	Injected	Target	Remain	% done
A Wells:	14,465	14,175	(290)	102.0%
B Wells:	14,460	14,175	(285)	102.0%
C Wells:	7,995	8,775	780	91.1%
D Wells:	5,680	5,400	(280)	105.2%
Total:	42,600	42,525	(75)	100.2%

ATTACHMENT B

P3 ERD INJECTION SUMMARY TABLE – 2022

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/09/22	IW-C02	NA	9:03	9:51	EVO	8.2%	60	1.25	24	Pre-Injection Pressure = 20
11/09/22	IW-C05	NA	9:05	9:42	EVO	8.2%	60	1.62	16	Pre-Injection Pressure = 12
11/09/22	IW-A09	NA	8:52	9:32	EVO	8.2%	60	1.50	16	Pre-Injection Pressure = 4
11/09/22	IW-D07	NA	8:50	9:31	EVO	8.2%	60	1.46	22	Pre-Injection Pressure = 24
11/09/22	IW-A03	NA	9:55	9:56	Water		0	0.00	60	Pre-Injection Pressure = 20
11/09/22	IW-D03	NA	9:50	10:20	EVO	8.2%	60	2.00	12	Pre-Injection Pressure = 14
11/09/22	IW-B09	NA	9:47	10:29	EVO	8.2%	60	1.43	29	Pre-Injection Pressure = 14
11/09/22	IW-A13	NA	9:42	10:21	EVO	8.2%	60	1.54	34	Pre-Injection Pressure = 16
11/09/22	IW-B03	NA	10:06	12:58	EVO	8.2%	60	0.35	40	Pre-Injection Pressure =10
11/09/22	IW-A06	NA	10:32	11:43	EVO	8.2%	60	0.85	36	Pre-Injection Pressure = 0
11/09/22	IW-C08	NA	10:46	10:56	EVO	8.2%	5	0.50	45	Pre-Injection Pressure = 24
11/09/22	IW-B13	NA	10:25	10:26	Water		0	0.00	60	Pre-Injection Pressure = 12
11/09/22	IW-C03	NA	13:08	14:25	EVO	8.2%	60	0.78	30	Pre-Injection Pressure = 22
11/09/22	IW-C12	NA	10:30	10:31	Water		0	0.00	80	Pre-Injection Pressure = 8
11/09/22	IW-D08	NA	10:51	11:25	EVO	8.2%	60	1.76	22	Pre-Injection Pressure = 16
11/09/22	IW-A10	NA	11:12	11:42	EVO	8.2%	55	1.83	10	Pre-Injection Pressure = 10
11/09/22	IW-B06	NA	11:52	13:12	EVO	8.2%	10	0.13	42	Pre-Injection Pressure = 17
11/09/22	IW-A14	NA	11:33	12:46	EVO	8.2%	60	0.82	40	Pre-Injection Pressure = 8
11/09/22	IW-B10	NA	11:53	12:45	EVO	8.2%	60	1.15	38	Pre-Injection Pressure = 10
11/09/22	IW-C09	NA	12:53	13:03	EVO	8.2%	5	0.50	50	Pre-Injection Pressure = 16
11/09/22	IW-B14	NA	12:56	13:55	EVO	8.2%	25	0.42	45	Pre-Injection Pressure = 12
11/09/22	IW-D05	NA	13:06	13:37	EVO	8.2%	55	1.77	20	Pre-Injection Pressure = 18
11/09/22	IW-C06	NA	13:15	13:55	EVO	8.2%	50	1.25	16	Pre-Injection Pressure = 12
11/09/22	IW-A11	NA	13:46	14:18	EVO	8.2%	60	1.88	14	Pre-Injection Pressure = 10
11/09/22	IW-C13	NA	13:57	13:58	Water		0	0.00	60	Pre-Injection Pressure = 14
11/09/22	IW-A15	NA	14:02	15:10	EVO	8.2%	35	0.51	40	Pre-Injection Pressure = 12
11/09/22	IW-D04	NA	14:09	14:40	EVO	8.2%	60	1.94	0	Pre-Injection Pressure = 0
11/09/22	IW-B11	NA	14:43	15:46	EVO	8.2%	30	0.48	40	Pre-Injection Pressure = 20
11/09/22	IW-D01	NA	14:42	15:10	EVO	8.2%	60	2.14	10	Pre-Injection Pressure = 12
11/09/22	IW-A07	NA	14:47	16:16	EVO	8.2%	60	0.67	34	Pre-Injection Pressure = 12
11/09/22	IW-A04	NA	15:13	16:33	EVO	8.2%	60	0.75	22	Pre-Injection Pressure = 10
11/09/22	IW-B15	NA	15:19	15:20	Water		0	0.00	80	Pre-Injection Pressure = 20
11/09/22	IW-B21	NA	15:26	16:21	EVO	8.2%	60	1.09	20	Pre-Injection Pressure = 18
11/09/22	IW-C10	NA	15:50	16:12	EVO	8.2%	30	1.36	45	Pre-Injection Pressure = 12
11/10/22	IW-B04	NA	7:23	8:05	EVO	8.2%	15	0.36	45	Pre-Injection Pressure = 14
11/10/22	IW-B07	NA	7:23	9:41	EVO	8.2%	60	0.43	40	Pre-Injection Pressure = 8
11/10/22	IW-D06	NA	7:22	8:42	EVO	8.2%	90	1.13	30	Pre-Injection Pressure = 12
11/10/22	IW-A21	NA	7:24	8:32	EVO	8.2%	60	0.88	30	Pre-Injection Pressure = 10
11/10/22	IW-C04	NA	8:06	8:39	EVO	8.2%	45	1.36	26	Pre-Injection Pressure = 20
11/10/22	IW-A12	NA	8:49	9:43	EVO	8.2%	90	1.67	16	Pre-Injection Pressure = 10
11/10/22	IW-B20	NA	8:46	10:18	EVO	8.2%	60	0.65	48	Pre-Injection Pressure = 18
11/10/22	IW-C07	NA	9:58	10:43	EVO	8.2%	60	1.33	20	Pre-Injection Pressure = 4
11/10/22	IW-D02	NA	8:53	9:31	EVO	8.2%	60	1.58	20	Pre-Injection Pressure = 18
11/10/22	IW-A05	NA	9:34	10:53	EVO	8.2%	60	0.76	38	Pre-Injection Pressure = 16
11/10/22	IW-B12	NA	9:49	10:52	EVO	8.2%	20	0.32	42	Pre-Injection Pressure = 16
11/10/22	IW-A20	NA	10:32	11:35	EVO	8.2%	60	0.95	35	Pre-Injection Pressure = 20
11/10/22	IW-B05	NA	11:06	13:05	EVO	8.2%	60	0.50	40	Pre-Injection Pressure = 18
11/10/22	IW-A08	NA	10:52	12:23	EVO	8.2%	60	0.66	36	Pre-Injection Pressure = 16
11/10/22	IW-A16	NA	11:00	11:33	EVO	8.2%	40	1.21	22	Pre-Injection Pressure = 8

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/10/22	IW-B19	NA	11:49	12:45	EVO	8.2%	60	1.07	40	Pre-Injection Pressure = 14
11/10/22	IW-B16	NA	11:42	12:19	EVO	8.2%	60	1.62	18	Pre-Injection Pressure = 12
11/10/22	IW-A17	NA	12:27	12:58	EVO	8.2%	60	1.94	16	Pre-Injection Pressure = 10
11/10/22	IW-B08	NA	12:43	13:31	EVO	8.2%	10	0.21	40	Pre-Injection Pressure = 22
11/10/22	IW-A19	NA	12:48	14:15	EVO	8.2%	80	0.92	30	Pre-Injection Pressure = 16
11/10/22	IW-B17	NA	13:07	14:24	EVO	8.2%	60	0.78	24	Pre-Injection Pressure = 15
11/10/22	IW-C01	NA	13:08	15:01	EVO	8.2%	80	0.71	24	Pre-Injection Pressure = 12
11/10/22	IW-B02	NA	13:40	13:41	Water		0	0.00	60	Pre-Injection Pressure = 15
11/10/22	IW-B01	NA	13:50	13:51	Water		0	0.00	40	Pre-Injection Pressure = 18
11/10/22	IW-A01	NA	13:59	14:31	EVO	8.2%	60	1.87	32	Pre-Injection Pressure = 12
11/10/22	IW-A02	NA	14:35	15:17	EVO	8.2%	60	1.43	22	Pre-Injection Pressure = 12
11/10/22	IW-A18	NA	14:32	14:33	Water		0	0.00	80	Pre-Injection Pressure = 16
11/10/22	IW-B18	NA	14:25	15:18	EVO	8.2%	60	1.13	46	Pre-Injection Pressure = 14
11/10/22	IW-B17	NA	14:40	15:21	EVO	8.2%	60	1.46	30	
11/11/22	IW-A09	NA	7:46	9:01	EVO+	8.2%	120	1.60	22	
11/11/22	IW-C05	NA	7:47	9:23	EVO+	8.2%	120	1.25	46	
11/11/22	IW-A02	NA	7:45	9:10	EVO+	8.2%	120	1.41	30	
11/11/22	IW-D07	NA	7:48	9:16	EVO+	8.2%	120	1.36	30	
11/11/22	IW-C02	NA	9:17	11:30	EVO+	8.2%	85	0.64	60	Pressure increased to above 60 psi below 0.2 gpm
11/11/22	IW-D03	NA	9:33	11:03	EVO+	8.2%	120	1.33	50	Pressure slowly increased from 20 to 50 psi over the last 25 gallons injected
11/11/22	IW-A13	NA	9:24	10:47	EVO+	8.2%	120	1.45	30	
11/11/22	IW-B09	NA	9:07	10:07	EVO+	8.2%	60	1.00	60	Pressure slowly increased from 40 to 60 psi and flowrate decreased to ~0.4gpm after ~40 gallons injected
11/11/22	IW-A03	NA	11:49	12:48	EVO+	8.2%	95	1.61	22	Previous attempt pressures were above 60 psi
11/11/22	IW-A06	NA	11:17	13:05	EVO+	8.2%	120	1.11	46	
11/11/22	IW-B13	NA	10:55	11:47	EVO+	8.2%	60	1.15	50	
11/11/22	IW-C08	NA	10:26	11:43	EVO+	8.2%	20	0.26	58	High injection pressure
11/11/22	IW-B06	NA	13:15	13:23	Water		0	0.00	65	High injection pressure
11/11/22	IW-D08	NA	11:57	13:27	EVO+	8.2%	120	1.33	40	
11/11/22	IW-A10	NA	11:46	12:43	EVO+	8.2%	100	1.75	20	
11/11/22	IW-B03	NA	13:01	14:11	EVO+	8.2%	30	0.43	65	Pressure increased from 40 to 65
11/11/22	IW-B10	NA	12:50	14:37	EVO+	8.2%	120	1.12	54	
11/11/22	IW-A14	NA	13:33	15:15	EVO+	8.2%	120	1.18	30	
11/11/22	IW-C03	NA	14:13	15:15	EVO+	8.2%	40	0.65	70	Injected between 50-60 psi. Could no longer keep pressure below 60
11/11/22	IW-C09	NA	14:46	14:55	Water		0	0.00	65	High injection pressure
11/11/22	IW-C06	NA	13:25	15:19	EVO+	8.2%	120	1.05	56	
11/11/22	IW-B14	NA	15:20	16:29	EVO+	8.2%	60	0.87	60	
11/11/22	IW-D04	NA	15:30	16:30	EVO+	8.2%	120	2.00	16	
11/11/22	IW-D05	NA	14:57	16:30	EVO+	8.2%	90	0.97	60	
11/11/22	IW-D01	NA	15:17	16:35	EVO+	8.2%	110	1.41	32	
11/12/22	IW-A15	NA	7:33	8:56	EVO+	8.2%	120	1.45	30	
11/12/22	IW-A07	NA	7:26	8:41	EVO+	8.2%	90	1.20	58	
11/12/22	IW-A11	NA	7:23	8:32	EVO+	8.2%	120	1.74	24	
11/12/22	IW-A04	NA	7:25	11:49	EVO+	8.2%	120	0.45	24	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/12/22	IW-B07	NA	8:52	10:50	EVO+	8.2%	60	0.51	60	
11/12/22	IW-B11	NA	9:04	11:00	EVO+	8.2%	60	0.52	60	
11/12/22	IW-B04	NA	8:34	9:38	EVO+	8.2%	15	0.23	60	Couldn't keep pressure below 60 psi
11/12/22	IW-A16	NA	8:39	9:46	EVO+	8.2%	120	1.79	30	
11/12/22	IW-C04	NA	9:39	11:08	EVO+	8.2%	45	0.51	60	High injection pressure
11/12/22	IW-B16	NA	9:52	11:15	EVO+	8.2%	120	1.45	20	
11/12/22	IW-C07	NA	10:52	12:28	EVO+	8.2%	60	0.63	56	
11/12/22	IW-C10	NA	11:26	11:30	Water		0	0.00	74	Immediate high pressure
11/12/22	IW-D02	NA	11:29	13:28	EVO+	8.2%	120	1.01	58	
11/12/22	IW-A17	NA	11:24	12:26	EVO+	8.2%	120	1.94	18	
11/12/22	IW-A08	NA	12:45	13:42	EVO+	8.2%	60	1.05	54	
11/12/22	IW-A12	NA	11:36	12:34	EVO+	8.2%	120	2.07	10	
11/12/22	IW-B17	NA	12:33	13:48	EVO+	8.2%	120	1.60	40	
11/12/22	IW-A05	NA	13:58	14:05	EVO+	8.2%	10	1.43	32	Shut down due to possible surfacing under ramp
11/12/22	IW-D07	NA	12:50	14:04	EVO+	8.2%	90	1.22	65	Pressure increased from 32 to 60+ psi after ~60 gallons injected
11/12/22	IW-B08	NA	13:51	14:05	EVO+	8.2%	5	0.36	56	Shut down due to possible surfacing under ramp
11/12/22	IW-B18	NA	13:56	14:05	EVO+	8.2%	15	1.67	46	Shut down due to possible surfacing under ramp
11/12/22	IW-B18	NA	15:02	16:13	EVO+	8.2%	45	0.63	46	
11/12/22	IW-A05	NA	15:02	16:22	EVO+	8.2%	110	1.38	40	
11/12/22	IW-C05	NA	15:08	16:25	EVO+	8.2%	55	0.71	40	
11/12/22	IW-A10	NA	15:27	16:31	EVO+	8.2%	120	1.88	20	
11/13/22	IW-A16	NA	7:25	8:34	EVO+	8.2%	120	1.74	30	
11/13/22	IW-A09	NA	7:25	8:35	EVO+	8.2%	120	1.71	20	
11/13/22	IW-A06	NA	7:28	8:54	EVO+	8.2%	120	1.40	44	
11/13/22	IW-A01	NA	7:28	8:34	EVO+	8.2%	120	1.82	18	
11/13/22	IW-B16	NA	8:40	9:53	EVO+	8.2%	120	1.64	28	
11/13/22	IW-B09	NA	8:42	9:29	EVO+	8.2%	25	0.53	64	Couldn't keep pressure below 60 psi
11/13/22	IW-D03	NA	9:01	10:45	EVO+	8.2%	60	0.58	56	
11/13/22	IW-C01	NA	8:41	9:53	EVO+	8.2%	120	1.67	30	
11/13/22	IW-A17	NA	10:01	11:20	EVO+	8.2%	120	1.52	14	
11/13/22	IW-A10	NA	9:30	10:25	EVO+	8.2%	95	1.73	24	
11/13/22	IW-C05	NA	11:08	12:21	EVO+	8.2%	60	0.82	58	
11/13/22	IW-A02	NA	9:59	11:10	EVO+	8.2%	120	1.69	30	
11/13/22	IW-C03	NA	10:31	11:28	EVO+	8.2%	20	0.35	60	
11/13/22	IW-B17	NA	11:26	12:44	EVO+	8.2%	120	1.54	36	
11/13/22	IW-C02	NA	11:22	12:24	EVO+	8.2%	20	0.32	60	
11/13/22	IW-D01	NA	11:31	12:07	EVO+	8.2%	20	0.56	66	Couldn't keep pressure below 60 psi
11/13/22	IW-B05	NA	13:00	14:22	EVO+	8.2%	60	0.73	50	
11/13/22	IW-B18	NA	13:10	14:43	EVO+	8.2%	120	1.29	48	
11/13/22	IW-D02	NA	12:28	14:44	EVO+	8.2%	100	0.74	60	
11/13/22	IW-A04	NA	12:11	13:05	EVO+	8.2%	140	2.59	20	
11/14/22	IW-A01	NA	7:32	8:52	EVO+	8.2%	120	1.50	16	
11/14/22	IW-D02	NA	7:32	8:46	EVO+	8.2%	10	0.14	60	Couldn't pump below 60 psi
11/14/22	IW-B18	NA	7:32	8:54	EVO+	8.2%	120	1.46	48	
11/14/22	IW-A19	NA	7:32	8:41	EVO+	8.2%	120	1.74	56	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/14/22	IW-B19	NA	8:53	11:14	EVO+	8.2%	25	0.18	66	Couldn't keep pressure below 60 psi
11/14/22	IW-C03	NA	9:15	9:55	EVO-	8.2%	10	0.25	66	
11/14/22	IW-D03	NA	9:15	11:41	EVO-	8.2%	40	0.27	60	
11/14/22	IW-B10	NA	9:18	10:47	EVO-	8.2%	120	1.35	40	
11/14/22	IW-A20	NA	11:18	11:44	EVO+	8.2%	35	1.35	40	
11/14/22	IW-A20	NA	11:44	12:44	EVO-	8.2%	120	2.00	30	Pressure gradually decreased from 40 to 26 psi after switching from EVO+ to EVO-
11/14/22	IW-B04	NA	9:58	11:32	EVO-	8.2%	110	1.17	60	Pressure gradually decreased from 60 to 28 psi and flow rate increased from ~0.5 gpm to ~1.75 gpm after ~15 gal injected
11/14/22	IW-B07	NA	11:48	12:47	EVO-	8.2%	20	0.34	60	
11/14/22	IW-A10	NA	11:06	12:14	EVO-	8.2%	120	1.76	26	
11/14/22	IW-C04	NA	11:38	13:13	EVO-	8.2%	15	0.16	60	Couldn't keep pressure below 60 psi
11/14/22	IW-C09	NA	12:33	15:04	EVO-	8.2%	120	0.79	60	
11/14/22	IW-B20	NA	12:51	15:08	EVO-	8.2%	100	0.73	60	
11/14/22	IW-A08	NA	13:05	14:07	EVO-	8.2%	120	1.94	38	pressure dropped from 38 to 32 psi after ~ 20 gallons injected
11/14/22	IW-B05	NA	13:16	15:05	EVO-	8.2%	105	0.96	40	
11/14/22	IW-B09	NA	15:16	16:16	EVO-	8.2%	10	0.17	60	
11/14/22	IW-A21	NA	15:13	16:27	EVO-	8.2%	140	1.89	42	
11/14/22	IW-C07	NA	14:16	16:18	EVO-	8.2%	40	0.33	60	
11/14/22	IW-C06	NA	15:40	16:21	EVO-	8.2%	30	0.73	60	
11/15/22	IW-A04	NA	7:16	8:59	EVO+	8.2%	120	1.17	20	
11/15/22	IW-A06	NA	7:21	9:01	EVO+	8.2%	120	1.20	44	
11/15/22	IW-A10	NA	7:16	8:32	EVO+	8.2%	120	1.58	32	
11/15/22	IW-B21	NA	7:13	8:25	EVO-	8.2%	110	1.53	58	
11/15/22	IW-B03	NA	9:20	11:01	EVO+	8.2%	60	0.59	68	
11/15/22	IW-B07	NA	9:20	10:46	EVO+	8.2%	120	1.40	58	Pressure increased from 32 to 58 psi over the 1st 30 gallons injected then dropped back to 32 psi
11/15/22	IW-A11	NA	8:41	10:50	EVO+	8.2%	120	0.93	30	Low flow rate due to pump issues, air side was freezing and stopping the pump
11/15/22	IW-A19	NA	8:36	9:35	EVO-	8.2%	120	2.03	32	Pressure dropped from 50 to 32 after ~30 gallons injected
11/15/22	IW-A17	NA	10:56	11:52	EVO+	8.2%	120	2.14	28	
11/15/22	IW-B19	NA	9:41	10:00	Water		0	0.00	74	High injection pressure
11/15/22	IW-B08	NA	10:54	12:06	EVO+	8.2%	15	0.21	70	High injection pressure
11/15/22	IW-B04	NA	11:12	12:06	EVO+	8.2%	15	0.28	68	High injection pressure
11/15/22	IW-A20	NA	10:09	11:17	EVO-	8.2%	120	1.76	20	
11/15/22	IW-D07	NA	11:23	12:55	EVO+	8.2%	75	0.82	66	Stopped injections due to presence of EVO in well casing of adjacent IW-C11
11/15/22	IW-B10	NA	12:00	14:43	EVO+	8.2%	120	0.74	74	High injection pressure
11/15/22	IW-B05	NA	12:12	13:35	EVO+	8.2%	100	1.20	32	
11/15/22	IW-C01	NA	12:12	13:28	EVO+	8.2%	10	0.13	74	High injection pressure
11/15/22	IW-D08	NA	12:59	13:49	EVO+	8.2%	100	2.00	30	
11/15/22	IW-A05	NA	13:31	14:48	EVO+	8.2%	85	1.10	36	
11/15/22	IW-C05	NA	13:43	15:09	EVO+	8.2%	120	1.40	36	
11/15/22	IW-C08	NA	14:51	15:58	EVO+	8.2%	20	0.30	70	High injection pressure

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/15/22	IW-A12	NA	13:53	14:57	EVO+	8.2%	120	1.88	18	
11/15/22	IW-C04	NA	14:53	16:22	EVO+	8.2%	45	0.51	74	High injection pressure
11/15/22	IW-D03	NA	15:15	16:28	EVO+	8.2%	60	0.82	56	
11/15/22	IW-A15	NA	15:02	16:37	EVO+	8.2%	135	1.42	42	
11/15/22	IW-B09	NA	16:00	16:35	EVO+	8.2%	40	1.14	56	
11/16/22	IW-C10	NA	7:15	8:23	EVO-	8.2%	20	0.29	76	
11/16/22	IW-A19	NA	7:15	8:21	EVO-	8.2%	120	1.82	26	
11/16/22	IW-C02	NA	7:15	8:22	EVO-	8.2%	10	0.15	74	
11/16/22	IW-C06	NA	7:15	9:27	EVO-	8.2%	60	0.45	56	
11/16/22	IW-B11	NA	8:25	9:55	EVO-	8.2%	100	1.11	70	pressure increased to 70 psi then gradually dropped to 54 psi
11/16/22	IW-A20	NA	8:27	9:30	EVO-	8.2%	120	1.90	20	
11/16/22	IW-A03	NA	8:23	9:17	EVO-	8.2%	110	2.04	22	
11/16/22	IW-D04	NA	9:44	10:40	EVO-	8.2%	120	2.14	10	
11/16/22	IW-C13	NA	10:00	11:06	EVO-	8.2%	15	0.23	74	High injection pressure
11/16/22	IW-B20	NA	9:38	11:16	EVO-	8.2%	120	1.22	76	
11/16/22	IW-B03	NA	9:31	11:16	EVO-	8.2%	120	1.14	58	pressure dropped from 58 to 42 after ~20 gallons injected
11/16/22	IW-A07	NA	10:44	12:01	EVO-	8.2%	120	1.56	48	
11/16/22	IW-A21	NA	11:29	13:01	EVO-	8.2%	120	1.30	60	
11/16/22	IW-D01	NA	11:20	12:19	EVO-	8.2%	15	0.25	76	High injection pressure
11/16/22	IW-B13	NA	11:09	12:26	EVO-	8.2%	105	1.36	46	
11/16/22	IW-B07	NA	12:07	13:03	EVO-	8.2%	120	2.14	28	
11/16/22	IW-B14	NA	12:32	13:32	EVO-	8.2%	60	1.00	70	High injection pressure
11/16/22	IW-B21	NA	13:13	14:29	EVO-	8.2%	120	1.58	48	
11/16/22	IW-D02	NA	12:21	13:59	EVO-	8.2%	45	0.46	72	High injection pressure
11/16/22	IW-C07	NA	13:10	14:58	EVO-	8.2%	120	1.11	76	High injection pressure
11/16/22	IW-A05	NA	14:03	15:06	EVO-	8.2%	135	2.14	30	
11/16/22	IW-A13	NA	14:39	15:48	EVO-	8.2%	120	1.74	30	
11/16/22	IW-A08	NA	15:06	16:08	EVO-	8.2%	120	1.94	35	
11/16/22	IW-C09	NA	13:36	14:54	EVO-	8.2%	120	1.54	50	
11/16/22	IW-A09	NA	15:01	16:10	EVO-	8.2%	120	1.74	20	
11/16/22	IW-B05	NA	15:11	16:14	EVO-	8.2%	120	1.90	22	
11/16/22	IW-A14	NA	15:51	16:19	EVO-	8.2%	60	2.14	28	
11/17/22	IW-A05	NA	7:20	8:25	EVO+	8.2%	120	1.85	28	
11/17/22	IW-A11	NA	7:20	8:37	EVO+	8.2%	120	1.56	20	
11/17/22	IW-B03	NA	7:20	9:18	EVO+	8.2%	120	1.02	68	
11/17/22	IW-B13	NA	7:20	8:40	EVO+	8.2%	120	1.50	48	
11/17/22	IW-A03	NA	9:23	10:28	EVO+	8.2%	120	1.85	28	
11/17/22	IW-A07	NA	8:32	9:33	EVO+	8.2%	120	1.97	42	
11/17/22	IW-A13	NA	8:44	9:44	EVO+	8.2%	120	2.00	30	
11/17/22	IW-B09	NA	8:42	9:46	EVO+	8.2%	60	0.94	68	
11/17/22	IW-C06	NA	9:36	11:44	EVO+	8.2%	120	0.94	72	High injection pressure
11/17/22	IW-B14	NA	9:55	11:02	EVO+	8.2%	120	1.79	54	
11/17/22	IW-B11	NA	9:57	11:09	EVO+	8.2%	120	1.67	32	
11/17/22	IW-C03	NA	10:33	12:23	EVO+	8.2%	120	1.09	64	
11/17/22	IW-C07	NA	11:53	14:00	EVO+	8.2%	90	0.71	70	High injection pressure
11/17/22	IW-A14	NA	11:10	12:20	EVO+	8.2%	120	1.71	24	
11/17/22	IW-C09	NA	11:13	12:31	EVO+	8.2%	120	1.54	50	

Daily Injection Summary
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Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/17/22	IW-C01	NA	12:33	13:34	EVO+	8.2%	10	0.16	76	High injection pressure
11/17/22	IW-D05	NA	12:37	14:09	EVO+	8.2%	40	0.43	74	High injection pressure
11/17/22	IW-D08	NA	12:29	13:31	EVO+	8.2%	120	1.94	20	
11/17/22	IW-A08	NA	14:06	15:02	EVO+	8.2%	90	1.61	22	
11/17/22	IW-C12	NA	13:39	13:43	EVO+	8.2%	0	0.00	80	Couldn't pump below 80 psi
11/17/22	IW-A09	NA	14:15	15:01	EVO+	8.2%	80	1.74	30	
11/17/22	IW-C04	NA	13:36	13:50	EVO+	8.2%	10	0.71	80	Couldn't pump below 80 psi
11/17/22	IW-A13	NA	13:47	14:52	EVO+	8.2%	120	1.85	30	
11/17/22	IW-A02	NA	13:54	14:55	EVO+	8.2%	100	1.64	36	
11/18/22	IW-A01	NA	7:15	7:24	Water		20	2.22	12	
11/18/22	IW-B08	NA	7:15	7:30	Water		20	1.33	70	
11/18/22	IW-B21	NA	7:15	7:32	Water		20	1.18	30	
11/18/22	IW-B18	NA	7:15	7:32	Water		20	1.18	40	
11/18/22	IW-C01	NA	7:24	7:58	Water		10	0.29	78	
11/18/22	IW-A08	NA	7:30	7:44	Water		20	1.43	20	
11/18/22	IW-A21	NA	7:37	7:55	Water		20	1.11	26	
11/18/22	IW-B17	NA	7:37	7:48	Water		20	1.82	22	
11/18/22	IW-A02	NA	8:00	8:26	Water		30	1.15	20	
11/18/22	IW-C07	NA	7:45	8:04	Water		20	1.05	62	
11/18/22	IW-B20	NA	7:57	8:19	Water		20	0.91	58	
11/18/22	IW-A17	NA	7:49	8:04	Water		20	1.33	12	
11/18/22	IW-B07	NA	8:10	8:30	Water		35	1.75	20	
11/18/22	IW-A20	NA	8:22	8:38	Water		20	1.25	20	
11/18/22	IW-B16	NA	8:08	8:17	Water		20	2.22	18	
11/18/22	IW-C02	NA	8:27	9:11	Water		25	0.57	68	
11/18/22	IW-A07	NA	8:32	8:45	Water		25	1.92	20	
11/18/22	IW-A16	NA	8:19	8:34	Water		30	2.00	20	
11/18/22	IW-A09	NA	8:38	9:00	Water		30	1.36	18	
11/18/22	IW-B19	NA	8:41	9:24	Water		20	0.47	74	
11/18/22	IW-B09	NA	9:02	9:28	Water		20	0.77	42	
11/18/22	IW-A03	NA	9:11	9:47	Water		15	0.42	78	
11/18/22	IW-D04	NA	8:45	9:57	Water		30	0.42	6	
11/18/22	IW-A19	NA	9:27	9:51	Water		20	0.83	42	
11/18/22	IW-C06	NA	8:48	9:10	Water		30	1.36	65	
11/18/22	IW-B06	NA	9:10	9:16	Water		0	0.00	80	
11/18/22	IW-A06	NA	9:18	9:43	Water		40	1.60	30	
11/18/22	IW-C08	NA	9:29	10:04	Water		10	0.29	70	
11/18/22	IW-B03	NA	9:49	10:05	Water		20	1.25	20	
11/18/22	IW-D03	NA	9:45	10:16	Water		30	0.97	58	
11/18/22	IW-A10	NA	10:04	10:23	Water		30	1.58	18	
11/18/22	IW-C05	NA	10:16	10:32	Water		30	1.88	52	
11/18/22	IW-A15	NA	9:53	10:18	Water		25	1.00	18	
11/18/22	IW-C03	NA	10:06	10:25	Water		30	1.58	50	
11/18/22	IW-C13	NA	10:18	10:36	Water		10	0.56	80	
11/18/22	IW-B10	NA	10:23	10:41	Water		30	1.67	20	
11/18/22	IW-D01	NA	10:27	10:59	Water		15	0.47	80	
11/18/22	IW-B05	NA	10:32	10:47	Water		30	2.00	45	
11/18/22	IW-B14	NA	10:36	11:02	Water		25	0.96	52	
11/18/22	IW-C09	NA	10:44	11:06	Water		40	1.82	30	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/18/22	IW-A04	NA	11:01	11:21	Water		15	0.75	64	
11/18/22	IW-A05	NA	10:48	11:12	Water		40	1.67	28	
11/18/22	IW-A14	NA	11:03	11:18	Water		20	1.33	18	
11/18/22	IW-D05	NA	11:07	11:49	Water		20	0.48	74	
11/18/22	IW-D02	NA	11:14	11:29	Water		20	1.33	56	
11/18/22	IW-B04	NA	11:23	11:40	Water		25	1.47	8	
11/18/22	IW-D08	NA	11:19	11:52	Water		40	1.21	20	
11/18/22	IW-A11	NA	11:51	12:04	Water		25	1.92	20	
11/18/22	IW-C04	NA	11:31	12:01	Water		20	0.67	80	
11/18/22	IW-B13	NA	11:54	12:10	Water		20	1.25	42	
11/18/22	IW-D07	NA	11:41	12:13	Water		35	1.09	40	
11/18/22	IW-B11	NA	12:05	12:17	Water		25	2.08	22	
11/18/22	IW-C10	NA	12:17	12:31	Water		5	0.36	74	
11/18/22	IW-A12	NA	12:15	12:30	Water		25	1.67	14	
11/18/22	IW-A13	NA	12:12	12:26	Water		25	1.79	22	
11/29/22	IW-B01	NA	7:34	8:44	EVO-	8.2%	25	0.36	80	High injection pressure
11/29/22	IW-C07	NA	7:34	9:04	EVO-	8.2%	120	1.33	68	
11/29/22	IW-B09	NA	7:34	8:54	EVO-	8.2%	60	0.75	56	
11/29/22	IW-B15	NA	7:41	9:14	EVO-	8.2%	60	0.65	70	High injection pressure
11/29/22	IW-B02	NA	8:46	10:39	EVO-	8.2%	95	0.84	80	High injection pressure
11/29/22	IW-B08	NA	9:12	10:48	EVO-	8.2%	120	1.25	70	High injection pressure
11/29/22	IW-C08	NA	9:03	10:42	EVO-	8.2%	25	0.25	78	High injection pressure
11/29/22	IW-C13	NA	9:25	12:01	EVO-	8.2%	120	0.77	72	High injection pressure
11/29/22	IW-C01	NA	10:48	12:10	EVO-	8.2%	45	0.55	78	High injection pressure
11/29/22	IW-B10	NA	10:46	12:05	EVO-	8.2%	95	1.20	30	
11/29/22	IW-B07	NA	10:53	11:59	EVO-	8.2%	120	1.82	28	
11/29/22	IW-B14	NA	12:07	13:28	EVO-	8.2%	120	1.48	46	
11/29/22	IW-C02	NA	12:10	14:06	EVO-	8.2%	75	0.65	78	High injection pressure
11/29/22	IW-C09	NA	12:14	13:21	EVO-	8.2%	120	1.79	36	
11/29/22	IW-D04	NA	12:04	13:07	EVO-	8.2%	120	1.90	20	
11/29/22	IW-B13	NA	13:33	14:37	EVO-	8.2%	120	1.88	56	Pressure dropped from 56 to 28 psi over the 1st 30 gallons injected
11/29/22	IW-B03	NA	14:13	15:44	EVO-	8.2%	120	1.32	50	
11/29/22	IW-D05	NA	13:26	15:59	EVO-	8.2%	120	0.78	70	High injection pressure
11/29/22	IW-C06	NA	13:13	14:54	EVO-	8.2%	120	1.19	60	
11/29/22	IW-D07	NA	14:40	15:51	EVO-	8.2%	120	1.69	24	
11/29/22	IW-C03	NA	15:50	16:18	EVO-	8.2%	30	1.07	60	
11/29/22	IW-B06	NA	14:56	15:58	EVO-	8.2%	60	0.97	80	High injection pressure
11/29/22	IW-B15	NA	15:52	16:22	EVO-	8.2%	30	1.00	70	High injection pressure
11/30/22	IW-C10	NA	7:25	8:04	EVO-	8.2%	5	0.13	80	Couldn't pump below 80 psi
11/30/22	IW-B15	NA	7:25	8:44	EVO-	8.2%	120	1.52	45	
11/30/22	IW-D01	NA	7:25	9:32	EVO-	8.2%	120	0.94	76	High injection pressure
11/30/22	IW-D03	NA	7:25	9:16	EVO-	8.2%	120	1.08	74	High injection pressure
11/30/22	IW-B02	NA	9:43	11:00	EVO-	8.2%	120	1.56	76	High injection pressure
11/30/22	IW-B08	NA	9:25	10:45	EVO-	8.2%	120	1.50	60	
11/30/22	IW-B09	NA	8:05	9:50	EVO-	8.2%	120	1.14	60	
11/30/22	IW-C13	NA	8:51	9:49	EVO-	8.2%	60	1.03	60	
11/30/22	IW-C08	NA	9:57	11:36	EVO-	8.2%	30	0.30	80	High injection pressure
11/30/22	IW-B19	NA	9:55	10:44	EVO-	8.2%	60	1.22	60	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
11/30/22	IW-B06	NA	10:52	12:30	EVO-	8.2%	120	1.22	58	
11/30/22	IW-C01	NA	11:07	12:50	EVO-	8.2%	60	0.58	80	High injection pressure
11/30/22	IW-B20	NA	10:55	12:05	EVO-	8.2%	120	1.71	46	
11/30/22	IW-D05	NA	11:38	13:52	EVO-	8.2%	90	0.67	78	High injection pressure
11/30/22	IW-B05	NA	12:34	13:43	EVO-	8.2%	120	1.74	28	
11/30/22	IW-C03	NA	12:52	14:21	EVO-	8.2%	40	0.45	78	High injection pressure
11/30/22	IW-B21	NA	12:16	13:21	EVO-	8.2%	120	1.85	48	
11/30/22	IW-B11	NA	13:55	15:26	EVO-	8.2%	120	1.32	48	
11/30/22	IW-B14	NA	13:26	14:41	EVO-	8.2%	120	1.60	54	
11/30/22	IW-C07	NA	13:50	15:07	EVO-	8.2%	120	1.56	68	
11/30/22	IW-B04	NA	14:25	16:05	EVO-	8.2%	140	1.40	72	Pressure dropped to 48 psi after ~20 gallons injected. Dropped as low as 28 psi
11/30/22	IW-B13	NA	14:49	15:52	EVO-	8.2%	120	1.90	24	
11/30/22	IW-B16	NA	15:32	16:04	EVO-	8.2%	60	1.88	20	
11/30/22	IW-D04	NA	15:13	16:09	EVO-	8.2%	120	2.14	6	
12/01/22	IW-C04	NA	7:26	9:08	EVO-	8.2%	60	0.59	78	High injection pressure
12/01/22	IW-D08	NA	7:26	8:24	EVO-	8.2%	120	2.07	22	
12/01/22	IW-B08	NA	7:26	8:31	EVO-	8.2%	120	1.85	50	
12/01/22	IW-B16	NA	7:26	8:32	EVO-	8.2%	120	1.82	22	
12/01/22	IW-B02	NA	9:28	11:04	EVO-	8.2%	120	1.25	54	
12/01/22	IW-B15	NA	8:27	10:29	EVO-	8.2%	120	0.98	60	
12/01/22	IW-B07	NA	8:37	9:34	EVO-	8.2%	120	2.11	38	
12/01/22	IW-B17	NA	8:39	10:17	EVO-	8.2%	120	1.22	30	
12/01/22	IW-A15	NA	10:37	11:43	EVO-	8.2%	120	1.82	24	
12/01/22	IW-C05	NA	9:42	10:41	EVO-	8.2%	120	2.03	28	
12/01/22	IW-B18	NA	10:26	11:32	EVO-	8.2%	120	1.82	44	
12/01/22	IW-C02	NA	11:10	14:13	EVO-	8.2%	120	0.66	76	High injection pressure
12/01/22	IW-C06	NA	10:50	12:40	EVO-	8.2%	120	1.09	64	
12/01/22	IW-C13	NA	11:48	13:39	EVO-	8.2%	120	1.08	56	
12/01/22	IW-C08	NA	11:38	14:25	EVO-	8.2%	120	0.72	60	
12/01/22	IW-D03	NA	12:48	14:15	EVO-	8.2%	60	0.69	74	High injection pressure
12/01/22	IW-C01	NA	14:22	15:54	EVO-	8.2%	60	0.65	76	
12/01/22	IW-B09	NA	14:36	16:06	EVO-	8.2%	120	1.33	44	
12/01/22	IW-B13	NA	13:45	14:47	EVO-	8.2%	120	1.94	10	
12/01/22	IW-B06	NA	14:26	15:49	EVO-	8.2%	120	1.45	56	
12/01/22	IW-B19	NA	14:53	16:00	EVO-	8.2%	120	1.79	42	
12/02/22	IW-C03	NA	7:28	9:18	EVO-	8.2%	60	0.55	84	Pressure as high as 84, reduced flowrate to keep below 80 psi
12/02/22	IW-A07	NA	7:28	8:34	EVO-	8.2%	120	1.82	24	
12/02/22	IW-B09	NA	7:28	9:50	EVO-	8.2%	120	0.85	30	EVO volume complete
12/02/22	IW-B15	NA	7:28	8:58	EVO-	8.2%	120	1.33	44	
12/02/22	IW-C13	NA	9:04	10:32	EVO-	8.2%	120	1.36	56	
12/02/22	IW-C08	NA	8:54	11:19	EVO-	8.2%	120	0.83	62	
12/02/22	IW-B08	NA	8:38	9:36	EVO-	8.2%	120	2.07	46	
12/02/22	IW-A01	NA	9:30	10:28	EVO-	8.2%	120	2.07	20	
12/02/22	IW-A15	NA	10:37	11:39	EVO-	8.2%	120	1.94	22	
12/02/22	IW-A08	NA	9:40	10:40	EVO-	8.2%	120	2.00	22	
12/02/22	IW-B10	NA	11:27	12:36	EVO-	8.2%	120	1.74	32	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/02/22	IW-C01	NA	10:27	13:05	EVO-	8.2%	120	0.76	80	High injection pressure
12/02/22	IW-C07	NA	10:43	11:23	EVO-	8.2%	65	1.63	60	EVO volume complete
12/02/22	IW-A02	NA	13:11	14:16	EVO-	8.2%	120	1.85	30	
12/02/22	IW-B19	NA	11:52	12:50	EVO-	8.2%	120	2.07	46	
12/02/22	IW-B07	NA	11:38	12:05	EVO-	8.2%	55	2.04	32	EVO volume complete
12/02/22	IW-C09	NA	12:41	13:58	EVO-	8.2%	120	1.56	28	
12/02/22	IW-D04	NA	12:11	13:20	EVO-	8.2%	135	1.96	12	EVO volume complete
12/02/22	IW-B20	NA	12:52	14:24	EVO-	8.2%	120	1.30	54	
12/02/22	IW-C06	NA	13:34	14:20	EVO-	8.2%	55	1.20	50	EVO volume complete
12/02/22	IW-D05	NA	14:05	15:44	EVO-	8.2%	60	0.61	64	
12/02/22	IW-B21	NA	14:33	15:57	EVO-	8.2%	120	1.43	42	
12/02/22	IW-B02	NA	14:24	15:59	EVO-	8.2%	120	1.26	62	Pressure dropped from 62 to 42 after 50-60 gallons injected
12/02/22	IW-B06	NA	14:28	15:41	EVO-	8.2%	110	1.51	56	
12/03/22	IW-A11	NA	7:24	8:33	EVO-	8.2%	120	1.74	20	
12/03/22	IW-B14	NA	7:24	8:44	EVO-	8.2%	120	1.50	56	
12/03/22	IW-C02	NA	7:24	9:55	EVO-	8.2%	60	0.40	80	High injection pressure
12/03/22	IW-A06	NA	7:24	8:32	EVO-	8.2%	120	1.76	44	
12/03/22	IW-B16	NA	8:40	9:50	EVO-	8.2%	120	1.71	20	
12/03/22	IW-B15	NA	8:53	10:10	EVO-	8.2%	120	1.56	40	
12/03/22	IW-B08	NA	8:37	9:44	EVO-	8.2%	120	1.79	40	
12/03/22	IW-B04	NA	10:07	11:26	EVO-	8.2%	120	1.52	46	
12/03/22	IW-B17	NA	9:57	11:05	EVO-	8.2%	120	1.76	30	
12/03/22	IW-B19	NA	10:19	11:23	EVO-	8.2%	120	1.88	30	
12/03/22	IW-C04	NA	9:52	12:08	EVO-	8.2%	120	0.88	80	High injection pressure
12/03/22	IW-C01	NA	11:30	13:34	EVO-	8.2%	120	0.97	70	High injection pressure
12/03/22	IW-B18	NA	11:11	12:32	EVO-	8.2%	120	1.48	44	
12/03/22	IW-C05	NA	12:15	13:33	EVO-	8.2%	140	1.79	40	EVO volume complete
12/03/22	IW-B20	NA	11:32	12:55	EVO-	8.2%	120	1.45	42	
12/03/22	IW-C10	NA	12:39	14:05	EVO-	8.2%	20	0.23	80	High injection pressure
12/03/22	IW-B21	NA	13:07	14:14	EVO-	8.2%	120	1.79	40	
12/03/22	IW-C03	NA	13:45	15:35	EVO-	8.2%	60	0.55	78	High injection pressure
12/03/22	IW-D02	NA	13:37	14:34	EVO-	8.2%	120	2.11	48	
12/03/22	IW-C13	NA	14:19	15:34	EVO-	8.2%	120	1.60	52	
12/03/22	IW-C09	NA	14:08	15:18	EVO-	8.2%	100	1.43	14	EVO volume complete, extra 30 gallons from IW-C10
12/03/22	IW-D03	NA	14:40	15:30	EVO-	8.2%	60	1.20	56	
12/04/22	IW-B02	NA	7:30	8:31	EVO-	8.2%	120	1.97	48	
12/04/22	IW-A14	NA	7:30	8:35	EVO-	8.2%	120	1.85	28	Pressure slowly dropped from 28 to 20 PSI over the course of injecting
12/04/22	IW-C08	NA	7:30	9:04	EVO-	8.2%	120	1.28	60	
12/04/22	IW-B08	NA	7:30	7:54	EVO-	8.2%	45	1.88	38	EVO volume complete
12/04/22	IW-A01	NA	8:35	9:38	EVO-	8.2%	120	1.90	24	
12/04/22	IW-A19	NA	8:42	9:42	EVO-	8.2%	120	2.00	28	
12/04/22	IW-A08	NA	8:00	8:48	EVO-	8.2%	105	2.19	20	EVO volume complete
12/04/22	IW-A12	NA	9:10	10:19	EVO-	8.2%	120	1.74	24	
12/04/22	IW-A07	NA	9:02	9:45	EVO-	8.2%	90	2.09	26	
12/04/22	IW-D01	NA	9:10	12:36	EVO-	8.2%	120	0.58	76	High injection pressure
12/04/22	IW-A20	NA	9:47	10:45	EVO-	8.2%	120	2.07	22	
12/04/22	IW-B06	NA	9:52	10:50	EVO-	8.2%	120	2.07	50	
12/04/22	IW-A16	NA	10:26	11:51	EVO-	8.2%	120	1.41	18	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/04/22	IW-A02	NA	12:42	13:33	EVO-	8.2%	120	2.35	30	
12/04/22	IW-A21	NA	10:50	12:00	EVO-	8.2%	120	1.71	32	
12/04/22	IW-A06	NA	10:55	11:59	EVO-	8.2%	135	2.11	46	EVO volume complete
12/04/22	IW-A17	NA	11:56	13:08	EVO-	8.2%	120	1.67	4	
12/04/22	IW-D07	NA	12:16	13:30	EVO-	8.2%	120	1.62	20	
12/04/22	IW-D03	NA	12:04	13:30	EVO-	8.2%	105	1.22	70	EVO volume complete, extra 10 gallons from IW-B01
12/05/22	IW-B04	NA	7:22	8:46	EVO-	8.2%	120	1.43	30	
12/05/22	IW-D02	NA	7:22	9:10	EVO-	8.2%	120	1.11	68	
12/05/22	IW-C08	NA	7:22	9:00	EVO-	8.2%	120	1.22	50	
12/05/22	IW-A19	NA	7:22	8:22	EVO-	8.2%	115	1.92	24	EVO volume complete
12/05/22	IW-A03	NA	8:52	10:03	EVO-	8.2%	120	1.69	28	
12/05/22	IW-B05	NA	9:19	10:07	EVO-	8.2%	110	2.29	38	EVO volume complete
12/05/22	IW-A16	NA	9:06	10:10	EVO-	8.2%	120	1.88	18	
12/05/22	IW-B19	NA	8:29	9:34	EVO-	8.2%	120	1.85	34	
12/05/22	IW-A20	NA	9:44	10:35	EVO-	8.2%	100	1.96	20	EVO volume complete
12/05/22	IW-A04	NA	10:10	11:50	EVO-	8.2%	60	0.60	76	
12/05/22	IW-B16	NA	10:19	11:15	EVO-	8.2%	75	1.34	22	EVO volume complete
12/05/22	IW-C03	NA	10:10	11:06	EVO-	8.2%	120	2.14	20	
12/05/22	IW-B20	NA	10:43	11:08	EVO-	8.2%	35	1.40	50	EVO volume complete
12/05/22	IW-A17	NA	11:20	12:29	EVO-	8.2%	135	1.96	4	EVO volume complete
12/05/22	IW-B02	NA	11:56	12:40	EVO-	8.2%	100	2.27	38	EVO volume complete
12/05/22	IW-C02	NA	11:02	13:54	EVO-	8.2%	120	0.70	80	High injection pressure
12/05/22	IW-A21	NA	11:14	12:14	EVO-	8.2%	120	2.00	28	
12/05/22	IW-A18	NA	12:37	14:02	EVO-	8.2%	120	1.41	20	
12/05/22	IW-A07	NA	14:03	14:46	EVO-	8.2%	75	1.74	32	EVO volume complete
12/05/22	IW-B21	NA	12:16	12:29	EVO-	8.2%	25	1.92	38	EVO volume complete
12/05/22	IW-C04	NA	12:45	13:22	EVO-	8.2%	20	0.54	80	High injection pressure
12/05/22	IW-C11	NA	12:37	13:35	EVO-	8.2%	15	0.26	80	High injection pressure
12/05/22	IW-B17	NA	14:08	14:56	EVO-	8.2%	75	1.56	28	EVO volume complete
12/05/22	IW-B12	NA	13:36	15:26	EVO-	8.2%	120	1.09	58	
12/05/22	IW-B03	NA	13:31	14:56	EVO-	8.2%	120	1.41	52	
12/05/22	IW-D06	NA	15:30	16:00	EVO-	8.2%	60	2.00	20	
12/05/22	IW-C01	NA	15:01	16:08	EVO-	8.2%	50	0.75	74	EVO volume complete
12/05/22	IW-B18	NA	14:59	15:39	EVO-	8.2%	75	1.88	26	EVO volume complete
12/05/22	IW-A05	NA	14:49	15:48	EVO-	8.2%	120	2.03	30	
12/06/22	IW-A16	NA	7:24	8:12	EVO-	8.2%	90	1.88	24	
12/06/22	IW-A21	NA	7:24	8:21	EVO-	8.2%	115	2.02	12	EVO volume complete
12/06/22	IW-B06	NA	7:24	8:48	EVO-	8.2%	135	1.61	50	EVO volume complete
12/06/22	IW-A03	NA	7:24	8:29	EVO-	8.2%	120	1.85	24	
12/06/22	IW-A18	NA	8:17	9:25	EVO-	8.2%	120	1.76	22	
12/06/22	IW-B19	NA	8:29	9:08	EVO-	8.2%	50	1.28	22	EVO volume complete
12/06/22	IW-B03	NA	8:32	9:20	EVO-	8.2%	45	0.94	44	EVO volume complete
12/06/22	IW-B04	NA	8:49	9:49	EVO-	8.2%	110	1.83	34	
12/06/22	IW-A09	NA	9:35	10:40	EVO-	8.2%	120	1.85	20	
12/06/22	IW-B15	NA	9:19	10:56	EVO-	8.2%	120	1.24	56	
12/06/22	IW-C02	NA	9:26	11:12	EVO-	8.2%	125	1.18	72	EVO volume complete
12/06/22	IW-C03	NA	11:17	13:17	EVO-	8.2%	115	0.96	80	EVO volume complete
12/06/22	IW-C13	NA	11:02	12:27	EVO-	8.2%	120	1.41	56	
12/06/22	IW-C04	NA	9:51	11:22	EVO-	8.2%	120	1.32	66	
12/06/22	IW-A10	NA	10:43	11:33	EVO-	8.2%	65	1.30	20	EVO volume complete

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/06/22	IW-A05	NA	11:31	12:09	EVO-	8.2%	60	1.58	28	EVO volume complete, extra 25 gallons from IW-B01
12/06/22	IW-A11	NA	11:37	12:48	EVO-	8.2%	135	1.90	20	EVO volume complete
12/06/22	IW-B14	NA	12:33	13:13	EVO-	8.2%	50	1.25	56	EVO volume complete
12/06/22	IW-D02	NA	12:15	13:49	EVO-	8.2%	100	1.06	68	EVO volume complete
12/06/22	IW-D01	NA	13:29	15:38	EVO-	8.2%	120	0.93	52	
12/06/22	IW-C08	NA	12:51	14:00	EVO-	8.2%	120	1.74	40	
12/06/22	IW-A04	NA	13:58	15:10	EVO-	8.2%	140	1.94	20	
12/06/22	IW-B13	NA	13:19	14:13	EVO-	8.2%	60	1.11	22	EVO volume complete, extra 30 gallons from IW-C10
12/06/22	IW-B12	NA	14:03	15:46	EVO-	8.2%	120	1.17	62	
12/06/22	IW-D06	NA	14:19	15:40	EVO-	8.2%	120	1.48	24	
12/07/22	IW-A18	NA	7:30	8:32	EVO-	8.2%	120	1.94	14	
12/07/22	IW-B12	NA	7:30	8:33	EVO-	8.2%	120	1.90	66	
12/07/22	IW-C04	NA	7:30	9:06	EVO-	8.2%	120	1.25	60	
12/07/22	IW-A01	NA	7:30	8:37	EVO-	8.2%	135	2.01	20	EVO volume complete
12/07/22	IW-A16	NA	8:39	9:34	EVO-	8.2%	65	1.18	20	EVO volume complete
12/07/22	IW-B11	NA	8:37	9:34	EVO-	8.2%	120	2.11	36	
12/07/22	IW-B04	NA	9:15	10:32	EVO-	8.2%	130	1.69	28	EVO volume complete
12/07/22	IW-A02	NA	8:48	9:03	EVO-	8.2%	35	2.33	26	EVO volume complete
12/07/22	IW-C10	NA	9:39	12:24	EVO-	8.2%	120	0.73	80	High injection pressure
12/07/22	IW-D05	NA	9:39	13:12	EVO-	8.2%	115	0.54	70	High injection pressure
12/07/22	IW-B01	NA	9:08	9:09	EVO-	8.2%	0	0.00	100	Pressure >100 psi almost immediately. Could not pump below 80 PSI
12/07/22	IW-B02	NA	9:12	10:31	EVO-	8.2%	100	1.27	40	EVO volume complete
12/07/22	IW-A03	NA	10:32	11:25	EVO-	8.2%	110	2.08	22	EVO volume complete
12/07/22	IW-D01	NA	10:35	13:13	EVO-	8.2%	110	0.70	78	EVO volume complete
12/07/22	IW-D06	NA	12:25	13:50	EVO-	8.2%	120	1.41	20	
12/07/22	IW-C11	NA	13:16	15:44	EVO-	8.2%	20	0.14	80	High injection pressure
12/07/22	IW-B03	NA	13:26	14:28	EVO-	8.2%	100	1.61	50	EVO volume complete
12/07/22	IW-B08	NA	11:30	12:31	EVO-	8.2%	100	1.64	28	EVO volume complete
12/07/22	IW-B07	NA	12:39	13:29	EVO-	8.2%	100	2.00	30	EVO volume complete
12/07/22	IW-B05	NA	13:30	14:19	EVO-	8.2%	100	2.04	34	EVO volume complete
12/07/22	IW-C12	NA	13:54	15:44	EVO-	8.2%	60	0.55	84	High injection pressure
12/07/22	IW-A04	NA	14:31	15:27	EVO-	8.2%	100	1.79	20	EVO volume complete
12/07/22	IW-C13	NA	14:22	15:30	EVO-	8.2%	120	1.76	56	
12/08/22	IW-A01	NA	7:23	8:24	EVO-	8.2%	100	1.64	24	EVO volume complete
12/08/22	IW-A18	NA	7:23	8:43	EVO-	8.2%	120	1.50	20	
12/08/22	IW-A12	NA	7:23	8:32	EVO-	8.2%	120	1.74	16	
12/08/22	IW-B11	NA	7:23	8:27	EVO-	8.2%	120	1.88	22	
12/08/22	IW-C10	NA	8:32	10:49	EVO-	8.2%	120	0.88	80	High injection pressure
12/08/22	IW-D06	NA	8:37	10:32	EVO-	8.2%	180	1.57	32	
12/08/22	IW-A02	NA	8:30	9:44	EVO-	8.2%	100	1.35	32	EVO volume complete
12/08/22	IW-C09	NA	8:49	9:54	EVO-	8.2%	100	1.54	22	EVO volume complete
12/08/22	IW-C04	NA	9:52	11:12	EVO-	8.2%	75	0.94	52	EVO volume complete
12/08/22	IW-B12	NA	10:57	13:23	EVO-	8.2%	120	0.82	64	
12/08/22	IW-A14	NA	10:40	11:52	EVO-	8.2%	120	1.67	18	
12/08/22	IW-A09	NA	10:00	10:30	EVO-	8.2%	55	1.83	20	EVO volume complete
12/08/22	IW-D05	NA	10:33	12:53	EVO-	8.2%	105	0.75	54	EVO volume complete
12/08/22	IW-D07	NA	13:07	15:02	EVO-	8.2%	120	1.04	40	
12/08/22	IW-C12	NA	13:29	15:49	EVO-	8.2%	120	0.86	78	High injection pressure
12/08/22	IW-D08	NA	11:57	13:16	EVO-	8.2%	120	1.52	20	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/08/22	IW-A13	NA	13:20	14:47	EVO-	8.2%	135	1.55	30	EVO complete
12/08/22	IW-C13	NA	14:51	15:52	EVO-	8.2%	80	1.31	52	EVO volume complete
12/08/22	IW-C11	NA	15:10	15:50	EVO-	8.2%	15	0.38	80	High injection pressure
12/09/22	IW-B12	NA	7:20	9:09	EVO-	8.2%	140	1.28	46	
12/09/22	IW-C10	NA	7:20	9:00	EVO-	8.2%	120	1.20	70	
12/09/22	IW-D07	NA	7:20	9:01	EVO-	8.2%	120	1.19	54	
12/09/22	IW-A18	NA	9:12	10:09	EVO-	8.2%	120	2.11	26	
12/09/22	IW-D08	NA	9:03	10:04	EVO-	8.2%	135	2.21	18	EVO volume complete
12/09/22	IW-D06	NA	9:06	10:12	EVO-	8.2%	125	1.89	36	EVO volume complete
12/09/22	IW-A12	NA	10:17	11:12	EVO-	8.2%	105	1.91	18	EVO volume complete
12/09/22	IW-A14	NA	10:10	10:50	EVO-	8.2%	75	1.88	10	EVO volume complete
12/09/22	IW-A15	NA	10:53	12:12	EVO-	8.2%	120	1.52	30	EVO volume complete
12/09/22	IW-B10	NA	11:41	12:25	EVO-	8.2%	40	0.91	22	EVO volume complete
12/09/22	IW-B11	NA	10:14	11:37	EVO-	8.2%	120	1.45	28	
12/09/22	IW-B13	NA	11:17	12:18	EVO-	8.2%	120	1.97	22	EVO volume complete
12/12/22	IW-A15	NA	9:31	9:48	EVO-	8.2%	25	1.47	16	EVO volume complete
12/12/22	IW-A18	NA	7:27	8:22	EVO-	8.2%	75	1.36	18	EVO volume complete
12/12/22	IW-B11	NA	9:24	9:35	EVO-	8.2%	15	1.36	30	EVO volume complete
12/12/22	IW-B12	NA	8:27	9:27	EVO-	8.2%	75	1.25	38	EVO volume complete
12/12/22	IW-C10	NA	7:27	9:15	EVO-	8.2%	120	1.11	60	EVO volume complete
12/12/22	IW-C12	NA	7:27	9:46	EVO-	8.2%	105	0.76	80	EVO volume complete
12/12/22	IW-A01	NA	14:25	14:45	AW		30	1.50	20	
12/12/22	IW-A01	NA	14:45	14:46	DHC	1000.0%	225			
12/12/22	IW-A01	NA	14:46	15:19	AW		70	2.12	20	Well complete
12/12/22	IW-B08	NA	14:25	14:41	AW		30	1.87	36	
12/12/22	IW-B08	NA	14:41	14:42	DHC	1000.0%	225			
12/12/22	IW-B08	NA	14:42	15:18	AW		70	1.94	44	Well complete
12/12/22	IW-A09	NA	14:25	14:52	AW		30	1.11	18	
12/12/22	IW-A09	NA	14:52	14:53	DHC	1000.0%	150			
12/12/22	IW-A09	NA	14:53	15:39	AW		70	1.52	18	Well complete
12/12/22	IW-B15	NA	14:25	14:47	AW		30	1.36	52	
12/12/22	IW-B15	NA	14:47	14:48	DHC	1000.0%	150			
12/12/22	IW-B15	NA	14:48	15:44	AW		70	1.25	52	Well complete
12/12/22	IW-C01	NA	15:20	15:49	AW		30	1.03	64	
12/12/22	IW-C01	NA	15:49	15:50	DHC	1000.0%	150			
12/12/22	IW-C01	NA	15:50	16:38	AW		70	1.46	60	Well complete
12/12/22	IW-A08	NA	15:19	15:32	AW		30	2.31	36	
12/12/22	IW-A08	NA	15:32	15:33	DHC	1000.0%	150			
12/12/22	IW-A08	NA	15:33	16:06	AW		70	2.12	36	Well complete
12/12/22	IW-A10	NA	15:41	16:02	AW		30	1.43	16	
12/12/22	IW-A10	NA	16:02	16:03	DHC	1000.0%	150			
12/12/22	IW-A10	NA	16:03	16:42	AW		70	1.79	20	Well complete
12/12/22	IW-A15	NA	15:47	16:06	AW		30	1.58	32	
12/12/22	IW-A15	NA	16:06	16:07	DHC	1000.0%	150			
12/12/22	IW-A15	NA	16:07	16:40	AW		70	2.12	30	Well complete
12/13/22	IW-C13	NA	7:21	7:41	AW		30	1.50	50	
12/13/22	IW-C13	NA	7:41	7:42	DHC	1000.0%	150			
12/13/22	IW-C13	NA	7:42	8:12	AW		70	2.33	50	Well complete
12/13/22	IW-B09	NA	7:21	7:37	AW		30	1.87	36	
12/13/22	IW-B09	NA	7:37	7:38	DHC	1000.0%	150			
12/13/22	IW-B09	NA	7:38	8:11	AW		70	2.12	44	Well complete
12/13/22	IW-C07	NA	7:21	7:40	AW		30	1.58	58	
12/13/22	IW-C07	NA	7:40	7:41	DHC	1000.0%	150			

Daily Injection Summary
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Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/13/22	IW-C07	NA	7:41	8:10	AW		70	2.41	56	Well complete
12/13/22	IW-A02	NA	7:21	7:35	AW		30	2.14	28	
12/13/22	IW-A02	NA	7:35	7:36	DHC	1000.0%	150			
12/13/22	IW-A02	NA	7:36	8:08	AW		70	2.19	30	Well complete
12/13/22	IW-B14	NA	8:12	8:35	AW		30	1.30	60	
12/13/22	IW-B14	NA	8:35	8:36	DHC	1000.0%	150			
12/13/22	IW-B14	NA	8:36	9:12	AW		70	1.94	56	Well complete
12/13/22	IW-C08	NA	8:12	8:30	AW		30	1.67	42	
12/13/22	IW-C08	NA	8:30	8:31	DHC	1000.0%	150			
12/13/22	IW-C08	NA	8:31	9:10	AW		70	1.79	34	Well complete
12/13/22	IW-B07	NA	8:12	8:32	AW		30	1.50	28	
12/13/22	IW-B07	NA	8:32	8:33	DHC	1000.0%	150			
12/13/22	IW-B07	NA	8:33	9:12	AW		70	1.79	36	Well complete
12/13/22	IW-B02	NA	8:12	8:28	AW		30	1.87	40	
12/13/22	IW-B02	NA	8:28	8:29	DHC	1000.0%	225			
12/13/22	IW-B02	NA	8:29	9:10	AW		70	1.71	36	Well complete
12/13/22	IW-A14	NA	9:14	9:30	AW		30	1.88	10	
12/13/22	IW-A14	NA	9:30	9:31	DHC	1000.0%	150			
12/13/22	IW-A14	NA	9:31	10:04	AW		70	2.12	8	Well complete
12/13/22	IW-B10	NA	9:14	9:35	AW		30	1.43	22	
12/13/22	IW-B10	NA	9:35	9:36	DHC	1000.0%	150			
12/13/22	IW-B10	NA	9:36	10:15	AW		70	1.79	16	Well complete
12/13/22	IW-A07	NA	9:14	9:30	AW		30	1.88	20	
12/13/22	IW-A07	NA	9:31	9:32	DHC	1000.0%	150			
12/13/22	IW-A07	NA	9:32	10:04	AW		70	2.19	28	Well complete
12/13/22	IW-C02	NA	9:14	9:43	AW		25	0.86	80	
12/13/22	IW-C02	NA	9:43	9:44	DHC	1000.0%	150			
12/13/22	IW-C02	NA	9:44	10:26	AW		25	0.60	84	Well complete
12/13/22	IW-D08	NA	10:05	10:20	AW		30	2.00	24	
12/13/22	IW-D08	NA	10:20	10:21	DHC	1000.0%	150			
12/13/22	IW-D08	NA	10:21	10:55	AW		70	2.06	28	Well complete
12/13/22	IW-C09	NA	10:28	10:42	AW		30	2.14	30	
12/13/22	IW-C09	NA	10:42	10:43	DHC	1000.0%	150			
12/13/22	IW-C09	NA	10:43	11:24	AW		70	1.71	26	Well complete
12/13/22	IW-D04	NA	10:05	10:21	AW		30	1.88	12	
12/13/22	IW-D04	NA	10:21	10:22	DHC	1000.0%	150			
12/13/22	IW-D04	NA	10:22	10:55	AW		70	2.12	18	Well complete
12/13/22	IW-A03	NA	10:28	10:43	AW		30	2.00	28	
12/13/22	IW-A03	NA	10:43	10:44	DHC	1000.0%	150			
12/13/22	IW-A03	NA	10:44	11:24	AW		70	1.75	24	Well complete
12/13/22	IW-C12	NA	10:56	11:11	AW		30	2.00	58	
12/13/22	IW-C12	NA	11:11	11:12	DHC	1000.0%	150			
12/13/22	IW-C12	NA	11:12	11:49	AW		70	1.89	50	Well complete
12/13/22	IW-D05	NA	12:12	12:26	AW		30	2.14	46	
12/13/22	IW-D05	NA	12:26	12:27	DHC	1000.0%	150			
12/13/22	IW-D05	NA	12:27	13:20	AW		70	1.32	52	Well complete
12/13/22	IW-C06	NA	10:56	11:12	AW		30	1.88	60	
12/13/22	IW-C06	NA	11:12	11:13	DHC	1000.0%	150			
12/13/22	IW-C06	NA	11:13	11:49	AW		70	1.94	56	Well complete
12/13/22	IW-B03	NA	12:12	12:29	AW		30	1.76	46	
12/13/22	IW-B03	NA	12:29	12:30	DHC	1000.0%	225			
12/13/22	IW-B03	NA	12:30	13:14	AW		70	1.59	50	Well complete
12/13/22	IW-B13	NA	12:12	12:27	AW		30	2.00	28	

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/13/22	IW-B13	NA	12:27	12:28	DHC	1000.0%	150			
12/13/22	IW-B13	NA	12:28	13:13	AW		70	1.56	24	Well complete
12/13/22	IW-B06	NA	12:12	12:28	AW		30	1.87	52	
12/13/22	IW-B06	NA	12:28	12:29	DHC	1000.0%	150			
12/13/22	IW-B06	NA	12:29	13:13	AW		70	1.59	52	Well complete
12/13/22	IW-A11	NA	13:23	13:38	AW		30	2.00	22	
12/13/22	IW-A11	NA	13:38	13:39	DHC	1000.0%	150			
12/13/22	IW-A11	NA	13:39	14:10	AW		70	2.26	22	Well complete
12/13/22	IW-C03	NA	13:23	13:39	AW		30	1.88	54	
12/13/22	IW-C03	NA	13:39	13:40	DHC	1000.0%	150			
12/13/22	IW-C03	NA	13:40	14:18	AW		70	1.84	68	Well complete
12/13/22	IW-A13	NA	13:14	13:28	AW		30	2.14	18	
12/13/22	IW-A13	NA	13:28	13:29	DHC	1000.0%	150			
12/13/22	IW-A13	NA	13:29	14:01	AW		70	2.19	22	Well complete
12/13/22	IW-A06	NA	13:14	13:29	AW		30	2.00	42	
12/13/22	IW-A06	NA	13:29	13:30	DHC	1000.0%	150			
12/13/22	IW-A06	NA	13:30	14:04	AW		70	2.06	46	Well complete
12/13/22	IW-B11	NA	14:18	14:32	AW		30	2.14	30	
12/13/22	IW-B11	NA	14:32	14:33	DHC	1000.0%	150			
12/13/22	IW-B11	NA	14:33	15:06	AW		70	2.12	28	Well complete
12/13/22	IW-D01	NA	14:18	14:33	AW		30	2.00	30	
12/13/22	IW-D01	NA	14:33	14:34	DHC	1000.0%	150			
12/13/22	IW-D01	NA	14:34	15:06	AW		70	2.19	30	Well complete
12/13/22	IW-D07	NA	14:05	14:22	AW		30	1.76	36	
12/13/22	IW-D07	NA	14:22	14:23	DHC	1000.0%	150			
12/13/22	IW-D07	NA	14:23	15:11	AW		70	1.46	42	Well complete
12/13/22	IW-D03	NA	14:05	14:23	AW		30	1.67	68	
12/13/22	IW-D03	NA	14:23	14:24	DHC	1000.0%	150			
12/13/22	IW-D03	NA	14:24	15:15	AW		70	1.37	72	Well complete
12/13/22	IW-A16	NA	15:07	15:21	AW		30	2.14	18	
12/13/22	IW-A16	NA	15:21	15:22	DHC	1000.0%	150			
12/13/22	IW-A16	NA	15:22	15:55	AW		70	2.12	24	Well complete
12/13/22	IW-A04	NA	15:07	15:22	AW		30	2.00	22	
12/13/22	IW-A04	NA	15:22	15:23	DHC	1000.0%	150			
12/13/22	IW-A04	NA	15:23	15:55	AW		70	2.19	28	Well complete
12/13/22	IW-A19	NA	15:16	15:32	AW		30	1.88	26	
12/13/22	IW-A19	NA	15:32	15:33	DHC	1000.0%	150			
12/13/22	IW-A19	NA	15:33	16:03	AW		70	2.33	26	Well complete
12/13/22	IW-C05	NA	15:16	15:33	AW		30	1.76	60	
12/13/22	IW-C05	NA	15:33	15:34	DHC	1000.0%	150			
12/13/22	IW-C05	NA	15:34	16:06	AW		70	2.19	58	Well complete
12/14/22	IW-B16	NA	7:16	7:31	AW		30	2.00	30	
12/14/22	IW-B16	NA	7:31	7:32	DHC	1000.0%	150			
12/14/22	IW-B16	NA	7:32	8:09	AW		70	1.89	28	Well complete
12/14/22	IW-B04	NA	7:17	7:32	AW		30	2.00	22	
12/14/22	IW-B04	NA	7:32	7:33	DHC	1000.0%	150			
12/14/22	IW-B04	NA	7:33	8:10	AW		70	1.89	30	Well complete
12/14/22	IW-B05	NA	7:18	7:33	AW		30	2.00	32	
12/14/22	IW-B05	NA	7:33	7:34	DHC	1000.0%	150			
12/14/22	IW-B05	NA	7:34	8:11	AW		70	1.89	30	Well complete
12/14/22	IW-B19	NA	7:19	7:34	AW		30	2.00	14	
12/14/22	IW-B19	NA	7:34	7:35	DHC	1000.0%	150			
12/14/22	IW-B19	NA	7:35	8:12	AW		70	1.89	16	Well complete

Daily Injection Summary
Contingent Action Addendum Plan - Parking Level P3
Former American Linen Supply Co. - Dexter Ave. Site
Seattle, WA

ISOTEC

Injection Date	Location ID	Depth Interval	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
12/14/22	IW-A17	NA	8:14	8:37	AW		30	1.30	26	
12/14/22	IW-A17	NA	8:37	8:38	DHC	1000.0%	150			
12/14/22	IW-A17	NA	8:38	9:12	AW		70	2.06	30	Well complete
12/14/22	IW-C04	NA	8:15	8:38	AW		30	1.30	66	
12/14/22	IW-C04	NA	8:38	8:39	DHC	1000.0%	150			
12/14/22	IW-C04	NA	8:39	9:18	AW		70	1.79	60	Well complete
12/14/22	IW-A05	NA	8:16	8:41	AW		30	1.20	34	
12/14/22	IW-A05	NA	8:41	8:42	DHC	1000.0%	150			
12/14/22	IW-A05	NA	8:42	9:16	AW		70	2.06	34	Well complete
12/14/22	IW-A20	NA	8:17	8:42	AW		30	1.20	26	
12/14/22	IW-A20	NA	8:42	8:43	DHC	1000.0%	150			
12/14/22	IW-A20	NA	8:43	9:18	AW		70	2.00	26	Well complete
12/14/22	IW-B17	NA	9:20	9:39	AW		30	1.58	20	
12/14/22	IW-B17	NA	9:39	9:40	DHC	1000.0%	150			
12/14/22	IW-B17	NA	9:40	10:12	AW		70	2.19	24	Well complete
12/14/22	IW-D02	NA	9:20	9:40	AW		30	1.50	28	
12/14/22	IW-D02	NA	9:40	9:41	DHC	1000.0%	150			
12/14/22	IW-D02	NA	9:41	10:13	AW		70	2.19	42	Well complete
12/14/22	IW-C11	NA	9:19	10:26	AW		25	0.37	90	Well complete
12/14/22	IW-B20	NA	9:19	9:37	AW		30	1.67	42	
12/14/22	IW-B20	NA	9:37	9:38	DHC	1000.0%	150			
12/14/22	IW-B20	NA	9:38	10:22	AW		70	1.59	50	Well complete
12/14/22	IW-A18	NA	10:21	10:39	AW		30	1.67	24	
12/14/22	IW-A18	NA	10:39	10:40	DHC	1000.0%	150			
12/14/22	IW-A18	NA	10:40	11:33	AW		70	1.32	24	Well complete
12/14/22	IW-C10	NA	10:21	10:40	AW		30	1.58	58	
12/14/22	IW-C10	NA	10:40	10:41	DHC	1000.0%	150			
12/14/22	IW-C10	NA	10:41	11:34	AW		70	1.32	60	Well complete
12/14/22	IW-B12	NA	10:38	10:59	AW		30	1.43	32	
12/14/22	IW-B12	NA	10:58	10:59	DHC	1000.0%	150			
12/14/22	IW-B12	NA	10:59	11:40	AW		70	1.71	40	Well complete
12/14/22	IW-A21	NA	10:38	10:57	AW		30	1.58	38	
12/14/22	IW-A21	NA	10:57	10:58	DHC	1000.0%	150			
12/14/22	IW-A21	NA	10:58	11:42	AW		70	1.59	50	Well complete
12/14/22	IW-A12	NA	12:10	12:33	AW		30	1.30	26	
12/14/22	IW-A12	NA	12:33	12:34	DHC	1000.0%	150			
12/14/22	IW-A12	NA	12:34	13:20	AW		70	1.52	26	Well complete
12/14/22	IW-B18	NA	12:10	12:35	AW		30	1.20	38	
12/14/22	IW-B18	NA	12:35	12:36	DHC	1000.0%	150			
12/14/22	IW-B18	NA	12:36	13:13	AW		70	1.89	40	Well complete
12/14/22	IW-B21	NA	12:10	12:34	AW		30	1.25	28	
12/14/22	IW-B21	NA	12:34	12:35	DHC	1000.0%	150			
12/14/22	IW-B21	NA	12:35	13:20	AW		70	1.56	28	Well complete
12/14/22	IW-D06	NA	12:10	12:36	AW		30	1.15	32	
12/14/22	IW-D06	NA	12:36	12:37	DHC	1000.0%	150			
12/14/22	IW-D06	NA	12:37	13:16	AW		70	1.79	32	Well complete
								1.36		

ATTACHMENT C

P3 ERD DAILY FIELD REPORTS

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 9, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C02	NA	9:03	9:51	EVO	8%	60	1.25	24	Pre-Injection Pressure = 20
IW-C05	NA	9:05	9:42	EVO	8%	60	1.62	16	Pre-Injection Pressure = 12
IW-A09	NA	8:52	9:32	EVO	8%	60	1.50	16	Pre-Injection Pressure = 4
IW-D07	NA	8:50	9:31	EVO	8%	60	1.46	22	Pre-Injection Pressure = 24
IW-A03	NA	9:55	9:56	Water		0	0.00	60	Pre-Injection Pressure = 20
IW-D03	NA	9:50	10:20	EVO	8%	60	2.00	12	Pre-Injection Pressure = 14
IW-B09	NA	9:47	10:29	EVO	8%	60	1.43	29	Pre-Injection Pressure = 14
IW-A13	NA	9:42	10:21	EVO	8%	60	1.54	34	Pre-Injection Pressure = 16
IW-B03	NA	10:06	12:58	EVO	8%	60	0.35	40	Pre-Injection Pressure =10
IW-A06	NA	10:32	11:43	EVO	8%	60	0.85	36	Pre-Injection Pressure = 0
IW-C08	NA	10:46	10:56	EVO	8%	5	0.50	45	Pre-Injection Pressure = 24
IW-B13	NA	10:25	10:26	Water		0	0.00	60	Pre-Injection Pressure = 12
IW-C03	NA	13:08	14:25	EVO	8%	60	0.78	30	Pre-Injection Pressure = 22
IW-C12	NA	10:30	10:31	Water		0	0.00	80	Pre-Injection Pressure = 8
IW-D08	NA	10:51	11:25	EVO	8%	60	1.76	22	Pre-Injection Pressure = 16
IW-A10	NA	11:12	11:42	EVO	8%	55	1.83	10	Pre-Injection Pressure = 10
IW-B06	NA	11:52	13:12	EVO	8%	10	0.13	42	Pre-Injection Pressure = 17
IW-A14	NA	11:33	12:46	EVO	8%	60	0.82	40	Pre-Injection Pressure = 8
IW-B10	NA	11:53	12:45	EVO	8%	60	1.15	38	Pre-Injection Pressure = 10
IW-C09	NA	12:53	13:03	EVO	8%	5	0.50	50	Pre-Injection Pressure = 16
IW-B14	NA	12:56	13:55	EVO	8%	25	0.42	45	Pre-Injection Pressure = 12
IW-D05	NA	13:06	13:37	EVO	8%	55	1.77	20	Pre-Injection Pressure = 18
IW-C06	NA	13:15	13:55	EVO	8%	50	1.25	16	Pre-Injection Pressure = 12
IW-A11	NA	13:46	14:18	EVO	8%	60	1.88	14	Pre-Injection Pressure = 10
IW-C13	NA	13:57	13:58	Water		0	0.00	60	Pre-Injection Pressure = 14
IW-A15	NA	14:02	15:10	EVO	8%	35	0.51	40	Pre-Injection Pressure = 12
IW-D04	NA	14:09	14:40	EVO	8%	60	1.94	0	Pre-Injection Pressure = 0
IW-B11	NA	14:43	15:46	EVO	8%	30	0.48	40	Pre-Injection Pressure = 20
IW-D01	NA	14:42	15:10	EVO	8%	60	2.14	10	Pre-Injection Pressure = 12
IW-A07	NA	14:47	16:16	EVO	8%	60	0.67	34	Pre-Injection Pressure = 12
IW-A04	NA	15:13	16:33	EVO	8%	60	0.75	22	Pre-Injection Pressure = 10
IW-B15	NA	15:19	15:20	Water		0	0.00	80	Pre-Injection Pressure = 20
IW-B21	NA	15:26	16:21	EVO	8%	60	1.09	20	Pre-Injection Pressure = 18
IW-C10	NA	15:50	16:12	EVO	8%	30	1.36	45	Pre-Injection Pressure = 12
Daily Injection Totals:						1,440	0.99		

Total EVO Volume Injected (gal):	1,440
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	196.7
Sodium Bicarbonate Used (lbs.):	118.5
TSI-FSA Used (gal)	16.93
Nutrimax Used (lbs)	33.86

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 14, 2022	901312	Kevin O'Neal, John Tartaglia, Rich Gilland	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B16	NA	7:16	7:31	AW		30	2.00	30	
IW-B16	NA	7:31	7:32	DHC	1000%	150			
IW-B16	NA	7:32	8:09	AW		70	1.89	28	Well complete
IW-B04	NA	7:17	7:32	AW		30	2.00	22	
IW-B04	NA	7:32	7:33	DHC	1000%	150			
IW-B04	NA	7:33	8:10	AW		70	1.89	30	Well complete
IW-B05	NA	7:18	7:33	AW		30	2.00	32	
IW-B05	NA	7:33	7:34	DHC	1000%	150			
IW-B05	NA	7:34	8:11	AW		70	1.89	30	Well complete
IW-B19	NA	7:19	7:34	AW		30	2.00	14	
IW-B19	NA	7:34	7:35	DHC	1000%	150			
IW-B19	NA	7:35	8:12	AW		70	1.89	16	Well complete
IW-A17	NA	8:14	8:37	AW		30	1.30	26	
IW-A17	NA	8:37	8:38	DHC	1000%	150			
IW-A17	NA	8:38	9:12	AW		70	2.06	30	Well complete
IW-C04	NA	8:15	8:38	AW		30	1.30	66	
IW-C04	NA	8:38	8:39	DHC	1000%	150			
IW-C04	NA	8:39	9:18	AW		70	1.79	60	Well complete
IW-A05	NA	8:16	8:41	AW		30	1.20	34	
IW-A05	NA	8:41	8:42	DHC	1000%	150			
IW-A05	NA	8:42	9:16	AW		70	2.06	34	Well complete
IW-A20	NA	8:17	8:42	AW		30	1.20	26	
IW-A20	NA	8:42	8:43	DHC	1000%	150			
IW-A20	NA	8:43	9:18	AW		70	2.00	26	Well complete
IW-B17	NA	9:20	9:39	AW		30	1.58	20	
IW-B17	NA	9:39	9:40	DHC	1000%	150			
IW-B17	NA	9:40	10:12	AW		70	2.19	24	Well complete
IW-D02	NA	9:20	9:40	AW		30	1.50	28	
IW-D02	NA	9:40	9:41	DHC	1000%	150			
IW-D02	NA	9:41	10:13	AW		70	2.19	42	Well complete
IW-C11	NA	9:19	10:26	AW		25	0.37	90	Well complete
IW-B20	NA	9:19	9:37	AW		30	1.67	42	
IW-B20	NA	9:37	9:38	DHC	1000%	150			
IW-B20	NA	9:38	10:22	AW		70	1.59	50	Well complete
IW-A18	NA	10:21	10:39	AW		30	1.67	24	
IW-A18	NA	10:39	10:40	DHC	1000%	150			
IW-A18	NA	10:40	11:33	AW		70	1.32	24	Well complete
IW-C10	NA	10:21	10:40	AW		30	1.58	58	
IW-C10	NA	10:40	10:41	DHC	1000%	150			
IW-C10	NA	10:41	11:34	AW		70	1.32	60	Well complete
IW-B12	NA	10:38	10:59	AW		30	1.43	32	
IW-B12	NA	10:58	10:59	DHC	1000%	150			
IW-B12	NA	10:59	11:40	AW		70	1.71	40	Well complete
IW-A21	NA	10:38	10:57	AW		30	1.58	38	
IW-A21	NA	10:57	10:58	DHC	1000%	150			
IW-A21	NA	10:58	11:42	AW		70	1.59	50	Well complete
IW-A12	NA	12:10	12:33	AW		30	1.30	26	
IW-A12	NA	12:33	12:34	DHC	1000%	150			
IW-A12	NA	12:34	13:20	AW		70	1.52	26	Well complete
IW-B18	NA	12:10	12:35	AW		30	1.20	38	
IW-B18	NA	12:35	12:36	DHC	1000%	150			
IW-B18	NA	12:36	13:13	AW		70	1.89	40	Well complete
IW-B21	NA	12:10	12:34	AW		30	1.25	28	
IW-B21	NA	12:34	12:35	DHC	1000%	150			
IW-B21	NA	12:35	13:20	AW		70	1.56	28	Well complete
IW-D06	NA	12:10	12:36	AW		30	1.15	32	
IW-D06	NA	12:36	12:37	DHC	1000%	150			
IW-D06	NA	12:37	13:16	AW		70	1.79	32	Well complete

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 14, 2022	901312	Kevin O'Neal, John Tartaglia, Rich Gilland	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
Daily Injection Totals:						1,925	1.63		

Total EVO Volume Injected (gal):	0
Anoxic Water Volume Injected (gal):	1,925
DHC Volume Injected (liters):	2.850
EVO Used (gal):	0.0
Sodium Bicarbonate Used (lbs.):	0.0
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	0.00

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 13, 2022	901312	Kevin O'Neal, John Tartaglia, Rich Gilland	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C13	NA	7:21	7:41	AW		30	1.50	50	
IW-C13	NA	7:41	7:42	DHC	1000%	150			
IW-C13	NA	7:42	8:12	AW		70	2.33	50	Well complete
IW-B09	NA	7:21	7:37	AW		30	1.87	36	
IW-B09	NA	7:37	7:38	DHC	1000%	150			
IW-B09	NA	7:38	8:11	AW		70	2.12	44	Well complete
IW-C07	NA	7:21	7:40	AW		30	1.58	58	
IW-C07	NA	7:40	7:41	DHC	1000%	150			
IW-C07	NA	7:41	8:10	AW		70	2.41	56	Well complete
IW-A02	NA	7:21	7:35	AW		30	2.14	28	
IW-A02	NA	7:35	7:36	DHC	1000%	150			
IW-A02	NA	7:36	8:08	AW		70	2.19	30	Well complete
IW-B14	NA	8:12	8:35	AW		30	1.30	60	
IW-B14	NA	8:35	8:36	DHC	1000%	150			
IW-B14	NA	8:36	9:12	AW		70	1.94	56	Well complete
IW-C08	NA	8:12	8:30	AW		30	1.67	42	
IW-C08	NA	8:30	8:31	DHC	1000%	150			
IW-C08	NA	8:31	9:10	AW		70	1.79	34	Well complete
IW-B07	NA	8:12	8:32	AW		30	1.50	28	
IW-B07	NA	8:32	8:33	DHC	1000%	150			
IW-B07	NA	8:33	9:12	AW		70	1.79	36	Well complete
IW-B02	NA	8:12	8:28	AW		30	1.87	40	
IW-B02	NA	8:28	8:29	DHC	1000%	225			
IW-B02	NA	8:29	9:10	AW		70	1.71	36	Well complete
IW-A14	NA	9:14	9:30	AW		30	1.88	10	
IW-A14	NA	9:30	9:31	DHC	1000%	150			
IW-A14	NA	9:31	10:04	AW		70	2.12	8	Well complete
IW-B10	NA	9:14	9:35	AW		30	1.43	22	
IW-B10	NA	9:35	9:36	DHC	1000%	150			
IW-B10	NA	9:36	10:15	AW		70	1.79	16	Well complete
IW-A07	NA	9:14	9:30	AW		30	1.88	20	
IW-A07	NA	9:31	9:32	DHC	1000%	150			
IW-A07	NA	9:32	10:04	AW		70	2.19	28	Well complete
IW-C02	NA	9:14	9:43	AW		25	0.86	80	
IW-C02	NA	9:43	9:44	DHC	1000%	150			
IW-C02	NA	9:44	10:26	AW		25	0.60	84	Well complete
IW-D08	NA	10:05	10:20	AW		30	2.00	24	
IW-D08	NA	10:20	10:21	DHC	1000%	150			
IW-D08	NA	10:21	10:55	AW		70	2.06	28	Well complete
IW-C09	NA	10:28	10:42	AW		30	2.14	30	
IW-C09	NA	10:42	10:43	DHC	1000%	150			
IW-C09	NA	10:43	11:24	AW		70	1.71	26	Well complete
IW-D04	NA	10:05	10:21	AW		30	1.88	12	
IW-D04	NA	10:21	10:22	DHC	1000%	150			
IW-D04	NA	10:22	10:55	AW		70	2.12	18	Well complete
IW-A03	NA	10:28	10:43	AW		30	2.00	28	
IW-A03	NA	10:43	10:44	DHC	1000%	150			
IW-A03	NA	10:44	11:24	AW		70	1.75	24	Well complete
IW-C12	NA	10:56	11:11	AW		30	2.00	58	
IW-C12	NA	11:11	11:12	DHC	1000%	150			
IW-C12	NA	11:12	11:49	AW		70	1.89	50	Well complete
IW-D05	NA	12:12	12:26	AW		30	2.14	46	
IW-D05	NA	12:26	12:27	DHC	1000%	150			
IW-D05	NA	12:27	13:20	AW		70	1.32	52	Well complete
IW-C06	NA	10:56	11:12	AW		30	1.88	60	
IW-C06	NA	11:12	11:13	DHC	1000%	150			
IW-C06	NA	11:13	11:49	AW		70	1.94	56	Well complete
IW-B03	NA	12:12	12:29	AW		30	1.76	46	

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 13, 2022	901312	Kevin O'Neal, John Tartaglia, Rich Gilland	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B03	NA	12:29	12:30	DHC	1000%	225			
IW-B03	NA	12:30	13:14	AW		70	1.59	50	Well complete
IW-B13	NA	12:12	12:27	AW		30	2.00	28	
IW-B13	NA	12:27	12:28	DHC	1000%	150			
IW-B13	NA	12:28	13:13	AW		70	1.56	24	Well complete
IW-B06	NA	12:12	12:28	AW		30	1.87	52	
IW-B06	NA	12:28	12:29	DHC	1000%	150			
IW-B06	NA	12:29	13:13	AW		70	1.59	52	Well complete
IW-A11	NA	13:23	13:38	AW		30	2.00	22	
IW-A11	NA	13:38	13:39	DHC	1000%	150			
IW-A11	NA	13:39	14:10	AW		70	2.26	22	Well complete
IW-C03	NA	13:23	13:39	AW		30	1.88	54	
IW-C03	NA	13:39	13:40	DHC	1000%	150			
IW-C03	NA	13:40	14:18	AW		70	1.84	68	Well complete
IW-A13	NA	13:14	13:28	AW		30	2.14	18	
IW-A13	NA	13:28	13:29	DHC	1000%	150			
IW-A13	NA	13:29	14:01	AW		70	2.19	22	Well complete
IW-A06	NA	13:14	13:29	AW		30	2.00	42	
IW-A06	NA	13:29	13:30	DHC	1000%	150			
IW-A06	NA	13:30	14:04	AW		70	2.06	46	Well complete
IW-B11	NA	14:18	14:32	AW		30	2.14	30	
IW-B11	NA	14:32	14:33	DHC	1000%	150			
IW-B11	NA	14:33	15:06	AW		70	2.12	28	Well complete
IW-D01	NA	14:18	14:33	AW		30	2.00	30	
IW-D01	NA	14:33	14:34	DHC	1000%	150		0	
IW-D01	NA	14:34	15:06	AW		70	2.19	30	Well complete
IW-D07	NA	14:05	14:22	AW		30	1.76	36	
IW-D07	NA	14:22	14:23	DHC	1000%	150			
IW-D07	NA	14:23	15:11	AW		70	1.46	42	Well complete
IW-D03	NA	14:05	14:23	AW		30	1.67	68	
IW-D03	NA	14:23	14:24	DHC	1000%	150			
IW-D03	NA	14:24	15:15	AW		70	1.37	72	Well complete
IW-A16	NA	15:07	15:21	AW		30	2.14	18	
IW-A16	NA	15:21	15:22	DHC	1000%	150			
IW-A16	NA	15:22	15:55	AW		70	2.12	24	Well complete
IW-A04	NA	15:07	15:22	AW		30	2.00	22	
IW-A04	NA	15:22	15:23	DHC	1000%	150			
IW-A04	NA	15:23	15:55	AW		70	2.19	28	Well complete
IW-A19	NA	15:16	15:32	AW		30	1.88	26	
IW-A19	NA	15:32	15:33	DHC	1000%	150			
IW-A19	NA	15:33	16:03	AW		70	2.33	26	Well complete
IW-C05	NA	15:16	15:33	AW		30	1.76	60	
IW-C05	NA	15:33	15:34	DHC	1000%	150			
IW-C05	NA	15:34	16:06	AW		70	2.19	58	Well complete
Daily Injection Totals:						3,350	1.87		

Total EVO Volume Injected (gal):	0
Anoxic Water Volume Injected (gal):	3,350
DHC Volume Injected (liters):	5.250
EVO Used (gal):	0.0
Sodium Bicarbonate Used (lbs.):	0.0
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	0.00

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 12, 2022	901312	Kevin O'Neal, John Tartaglia, Rich Gilland	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A15	NA	9:31	9:48	EVO-	8%	25	1.47	16	EVO volume complete
IW-A18	NA	7:27	8:22	EVO-	8%	75	1.36	18	EVO volume complete
IW-B11	NA	9:24	9:35	EVO-	8%	15	1.36	30	EVO volume complete
IW-B12	NA	8:27	9:27	EVO-	8%	75	1.25	38	EVO volume complete
IW-C10	NA	7:27	9:15	EVO-	8%	120	1.11	60	EVO volume complete
IW-C12	NA	7:27	9:46	EVO-	8%	105	0.76	80	EVO volume complete
IW-A01	NA	14:25	14:45	AW		30	1.50	20	
IW-A01	NA	14:45	14:46	DHC	1000%	225			
IW-A01	NA	14:46	15:19	AW		70	2.12	20	Well complete
IW-B08	NA	14:25	14:41	AW		30	1.87	36	
IW-B08	NA	14:41	14:42	DHC	1000%	225		0	
IW-B08	NA	14:42	15:18	AW		70	1.94	44	Well complete
IW-A09	NA	14:25	14:52	AW		30	1.11	18	
IW-A09	NA	14:52	14:53	DHC	1000%	150			
IW-A09	NA	14:53	15:39	AW		70	1.52	18	Well complete
IW-B15	NA	14:25	14:47	AW		30	1.36	52	
IW-B15	NA	14:47	14:48	DHC	1000%	150			
IW-B15	NA	14:48	15:44	AW		70	1.25	52	Well complete
IW-C01	NA	15:20	15:49	AW		30	1.03	64	
IW-C01	NA	15:49	15:50	DHC	1000%	150			
IW-C01	NA	15:50	16:38	AW		70	1.46	60	Well complete
IW-A08	NA	15:19	15:32	AW		30	2.31	36	
IW-A08	NA	15:32	15:33	DHC	1000%	150			
IW-A08	NA	15:33	16:06	AW		70	2.12	36	Well complete
IW-A10	NA	15:41	16:02	AW		30	1.43	16	
IW-A10	NA	16:02	16:03	DHC	1000%	150			
IW-A10	NA	16:03	16:42	AW		70	1.79	20	Well complete
IW-A15	NA	15:47	16:06	AW		30	1.58	32	
IW-A15	NA	16:06	16:07	DHC	1000%	150			
IW-A15	NA	16:07	16:40	AW		70	2.12	30	Well complete
Daily Injection Totals:						1,215	1.54		

Total EVO Volume Injected (gal):	415
Anoxic Water Volume Injected (gal):	800
DHC Volume Injected (liters):	1.350
EVO Used (gal):	56.7
Sodium Bicarbonate Used (lbs.):	34.2
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	9.76

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 9, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B12	NA	7:20	9:09	EVO-	8%	140	1.28	46	
IW-C10	NA	7:20	9:00	EVO-	8%	120	1.20	70	
IW-D07	NA	7:20	9:01	EVO-	8%	120	1.19	54	
IW-A18	NA	9:12	10:09	EVO-	8%	120	2.11	26	
IW-D08	NA	9:03	10:04	EVO-	8%	135	2.21	18	EVO volume complete
IW-D06	NA	9:06	10:12	EVO-	8%	125	1.89	36	EVO volume complete
IW-A12	NA	10:17	11:12	EVO-	8%	105	1.91	18	EVO volume complete
IW-A14	NA	10:10	10:50	EVO-	8%	75	1.88	10	EVO volume complete
IW-A15	NA	10:53	12:12	EVO-	8%	120	1.52	30	EVO volume complete
IW-B10	NA	11:41	12:25	EVO-	8%	40	0.91	22	EVO volume complete
IW-B11	NA	10:14	11:37	EVO-	8%	120	1.45	28	
IW-B13	NA	11:17	12:18	EVO-	8%	120	1.97	22	EVO volume complete
Daily Injection Totals:						1,340	1.63		

Total EVO Volume Injected (gal):	1,340
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	183.0
Sodium Bicarbonate Used (lbs.):	110.3
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	31.51

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 8, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A01	NA	7:23	8:24	EVO-	8%	100	1.64	24	EVO volume complete
IW-A18	NA	7:23	8:43	EVO-	8%	120	1.50	20	
IW-A12	NA	7:23	8:32	EVO-	8%	120	1.74	16	
IW-B11	NA	7:23	8:27	EVO-	8%	120	1.88	22	
IW-C10	NA	8:32	10:49	EVO-	8%	120	0.88	80	High injection pressure
IW-D06	NA	8:37	10:32	EVO-	8%	180	1.57	32	
IW-A02	NA	8:30	9:44	EVO-	8%	100	1.35	32	EVO volume complete
IW-C09	NA	8:49	9:54	EVO-	8%	100	1.54	22	EVO volume complete
IW-C04	NA	9:52	11:12	EVO-	8%	75	0.94	52	EVO volume complete
IW-B12	NA	10:57	13:23	EVO-	8%	120	0.82	64	
IW-A14	NA	10:40	11:52	EVO-	8%	120	1.67	18	
IW-A09	NA	10:00	10:30	EVO-	8%	55	1.83	20	EVO volume complete
IW-D05	NA	10:33	12:53	EVO-	8%	105	0.75	54	EVO volume complete
IW-D07	NA	13:07	15:02	EVO-	8%	120	1.04	40	
IW-C12	NA	13:29	15:49	EVO-	8%	120	0.86	78	High injection pressure
IW-D08	NA	11:57	13:16	EVO-	8%	120	1.52	20	
IW-A13	NA	13:20	14:47	EVO-	8%	135	1.55	30	EVO complete
IW-C13	NA	14:51	15:52	EVO-	8%	80	1.31	52	EVO volume complete
IW-C11	NA	15:10	15:50	EVO-	8%	15	0.38	80	High injection pressure
Daily Injection Totals:						2,025	1.30		

Total EVO Volume Injected (gal):	2,025
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	276.6
Sodium Bicarbonate Used (lbs.):	166.7
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	47.62

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 7, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A18	NA	7:30	8:32	EVO-	8%	120	1.94	14	
IW-B12	NA	7:30	8:33	EVO-	8%	120	1.90	66	
IW-C04	NA	7:30	9:06	EVO-	8%	120	1.25	60	
IW-A01	NA	7:30	8:37	EVO-	8%	135	2.01	20	EVO volume complete
IW-A16	NA	8:39	9:34	EVO-	8%	65	1.18	20	EVO volume complete
IW-B11	NA	8:37	9:34	EVO-	8%	120	2.11	36	
IW-B04	NA	9:15	10:32	EVO-	8%	130	1.69	28	EVO volume complete
IW-A02	NA	8:48	9:03	EVO-	8%	35	2.33	26	EVO volume complete
IW-C10	NA	9:39	12:24	EVO-	8%	120	0.73	80	High injection pressure
IW-D05	NA	9:39	13:12	EVO-	8%	115	0.54	70	High injection pressure
IW-B01	NA	9:08	9:09	EVO-	8%	0	0.00	100	Pressure >100 psi almost
IW-B02	NA	9:12	10:31	EVO-	8%	100	1.27	40	EVO volume complete
IW-A03	NA	10:32	11:25	EVO-	8%	110	2.08	22	EVO volume complete
IW-D01	NA	10:35	13:13	EVO-	8%	110	0.70	78	EVO volume complete
IW-D06	NA	12:25	13:50	EVO-	8%	120	1.41	20	
IW-C11	NA	13:16	15:44	EVO-	8%	20	0.14	80	High injection pressure
IW-B03	NA	13:26	14:28	EVO-	8%	100	1.61	50	EVO volume complete
IW-B08	NA	11:30	12:31	EVO-	8%	100	1.64	28	EVO volume complete
IW-B07	NA	12:39	13:29	EVO-	8%	100	2.00	30	EVO volume complete
IW-B05	NA	13:30	14:19	EVO-	8%	100	2.04	34	EVO volume complete
IW-C12	NA	13:54	15:44	EVO-	8%	60	0.55	84	High injection pressure
IW-A04	NA	14:31	15:27	EVO-	8%	100	1.79	20	EVO volume complete
IW-C13	NA	14:22	15:30	EVO-	8%	120	1.76	56	
Daily Injection Totals:						2,220	1.42		

Total EVO Volume Injected (gal):	2,220
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	303.2
Sodium Bicarbonate Used (lbs.):	182.7
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	52.20

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 6, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A16	NA	7:24	8:12	EVO-	8%	90	1.88	24	
IW-A21	NA	7:24	8:21	EVO-	8%	115	2.02	12	EVO volume complete
IW-B06	NA	7:24	8:48	EVO-	8%	135	1.61	50	EVO volume complete
IW-A03	NA	7:24	8:29	EVO-	8%	120	1.85	24	
IW-A18	NA	8:17	9:25	EVO-	8%	120	1.76	22	
IW-B19	NA	8:29	9:08	EVO-	8%	50	1.28	22	EVO volume complete
IW-B03	NA	8:32	9:20	EVO-	8%	45	0.94	44	EVO volume complete
IW-B04	NA	8:49	9:49	EVO-	8%	110	1.83	34	
IW-A09	NA	9:35	10:40	EVO-	8%	120	1.85	20	
IW-B15	NA	9:19	10:56	EVO-	8%	120	1.24	56	
IW-C02	NA	9:26	11:12	EVO-	8%	125	1.18	72	EVO volume complete
IW-C03	NA	11:17	13:17	EVO-	8%	115	0.96	80	EVO volume complete
IW-C13	NA	11:02	12:27	EVO-	8%	120	1.41	56	
IW-C04	NA	9:51	11:22	EVO-	8%	120	1.32	66	
IW-A10	NA	10:43	11:33	EVO-	8%	65	1.30	20	EVO volume complete
IW-A05	NA	11:31	12:09	EVO-	8%	60	1.58	28	EVO volume complete, extra 25
IW-A11	NA	11:37	12:48	EVO-	8%	135	1.90	20	EVO volume complete
IW-B14	NA	12:33	13:13	EVO-	8%	50	1.25	56	EVO volume complete
IW-D02	NA	12:15	13:49	EVO-	8%	100	1.06	68	EVO volume complete
IW-D01	NA	13:29	15:38	EVO-	8%	120	0.93	52	
IW-C08	NA	12:51	14:00	EVO-	8%	120	1.74	40	
IW-A04	NA	13:58	15:10	EVO-	8%	140	1.94	20	
IW-B13	NA	13:19	14:13	EVO-	8%	60	1.11	22	EVO volume complete, extra 30
IW-B12	NA	14:03	15:46	EVO-	8%	120	1.17	62	
IW-D06	NA	14:19	15:40	EVO-	8%	120	1.48	24	
Daily Injection Totals:						2,595	1.46		

Total EVO Volume Injected (gal):	2,595
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	354.4
Sodium Bicarbonate Used (lbs.):	213.6
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	61.02

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 5, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B04	NA	7:22	8:46	EVO-	8%	120	1.43	30	
IW-D02	NA	7:22	9:10	EVO-	8%	120	1.11	68	
IW-C08	NA	7:22	9:00	EVO-	8%	120	1.22	50	
IW-A19	NA	7:22	8:22	EVO-	8%	115	1.92	24	EVO volume complete
IW-A03	NA	8:52	10:03	EVO-	8%	120	1.69	28	
IW-B05	NA	9:19	10:07	EVO-	8%	110	2.29	38	EVO volume complete
IW-A16	NA	9:06	10:10	EVO-	8%	120	1.88	18	
IW-B19	NA	8:29	9:34	EVO-	8%	120	1.85	34	
IW-A20	NA	9:44	10:35	EVO-	8%	100	1.96	20	EVO volume complete
IW-A04	NA	10:10	11:50	EVO-	8%	60	0.60	76	
IW-B16	NA	10:19	11:15	EVO-	8%	75	1.34	22	EVO volume complete
IW-C03	NA	10:10	11:06	EVO-	8%	120	2.14	20	
IW-B20	NA	10:43	11:08	EVO-	8%	35	1.40	50	EVO volume complete
IW-A17	NA	11:20	12:29	EVO-	8%	135	1.96	4	EVO volume complete
IW-B02	NA	11:56	12:40	EVO-	8%	100	2.27	38	EVO volume complete
IW-C02	NA	11:02	13:54	EVO-	8%	120	0.70	80	High injection pressure
IW-A21	NA	11:14	12:14	EVO-	8%	120	2.00	28	
IW-A18	NA	12:37	14:02	EVO-	8%	120	1.41	20	
IW-A07	NA	14:03	14:46	EVO-	8%	75	1.74	32	EVO volume complete
IW-B21	NA	12:16	12:29	EVO-	8%	25	1.92	38	EVO volume complete
IW-C04	NA	12:45	13:22	EVO-	8%	20	0.54	80	High injection pressure
IW-C11	NA	12:37	13:35	EVO-	8%	15	0.26	80	High injection pressure
IW-B17	NA	14:08	14:56	EVO-	8%	75	1.56	28	EVO volume complete
IW-B12	NA	13:36	15:26	EVO-	8%	120	1.09	58	
IW-B03	NA	13:31	14:56	EVO-	8%	120	1.41	52	
IW-D06	NA	15:30	16:00	EVO-	8%	60	2.00	20	
IW-C01	NA	15:01	16:08	EVO-	8%	50	0.75	74	EVO volume complete
IW-B18	NA	14:59	15:39	EVO-	8%	75	1.88	26	EVO volume complete
IW-A05	NA	14:49	15:48	EVO-	8%	120	2.03	30	
Daily Injection Totals:						2,685	1.53		

Total EVO Volume Injected (gal):	2,685
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	366.7
Sodium Bicarbonate Used (lbs.):	221.0
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	63.14

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 4, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B02	NA	7:30	8:31	EVO-	8%	120	1.97	48	
IW-A14	NA	7:30	8:35	EVO-	8%	120	1.85	28	Pressure slowly dropped from 28 to
IW-C08	NA	7:30	9:04	EVO-	8%	120	1.28	60	
IW-B08	NA	7:30	7:54	EVO-	8%	45	1.88	38	EVO volume complete
IW-A01	NA	8:35	9:38	EVO-	8%	120	1.90	24	
IW-A19	NA	8:42	9:42	EVO-	8%	120	2.00	28	
IW-A08	NA	8:00	8:48	EVO-	8%	105	2.19	20	EVO volume complete
IW-A12	NA	9:10	10:19	EVO-	8%	120	1.74	24	
IW-A07	NA	9:02	9:45	EVO-	8%	90	2.09	26	
IW-D01	NA	9:10	12:36	EVO-	8%	120	0.58	76	High injection pressure
IW-A20	NA	9:47	10:45	EVO-	8%	120	2.07	22	
IW-B06	NA	9:52	10:50	EVO-	8%	120	2.07	50	
IW-A16	NA	10:26	11:51	EVO-	8%	120	1.41	18	
IW-A02	NA	12:42	13:33	EVO-	8%	120	2.35	30	
IW-A21	NA	10:50	12:00	EVO-	8%	120	1.71	32	
IW-A06	NA	10:55	11:59	EVO-	8%	135	2.11	46	EVO volume complete
IW-A17	NA	11:56	13:08	EVO-	8%	120	1.67	4	
IW-D07	NA	12:16	13:30	EVO-	8%	120	1.62	20	
IW-D03	NA	12:04	13:30	EVO-	8%	105	1.22	70	EVO volume complete, extra 10
Daily Injection Totals:						2,160	1.77		

Total EVO Volume Injected (gal):	2,160
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	295.0
Sodium Bicarbonate Used (lbs.):	177.8
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	50.79

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 3, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A11	NA	7:24	8:33	EVO-	8%	120	1.74	20	
IW-B14	NA	7:24	8:44	EVO-	8%	120	1.50	56	
IW-C02	NA	7:24	9:55	EVO-	8%	60	0.40	80	High injection pressure
IW-A06	NA	7:24	8:32	EVO-	8%	120	1.76	44	
IW-B16	NA	8:40	9:50	EVO-	8%	120	1.71	20	
IW-B15	NA	8:53	10:10	EVO-	8%	120	1.56	40	
IW-B08	NA	8:37	9:44	EVO-	8%	120	1.79	40	
IW-B04	NA	10:07	11:26	EVO-	8%	120	1.52	46	
IW-B17	NA	9:57	11:05	EVO-	8%	120	1.76	30	
IW-B19	NA	10:19	11:23	EVO-	8%	120	1.88	30	
IW-C04	NA	9:52	12:08	EVO-	8%	120	0.88	80	High injection pressure
IW-C01	NA	11:30	13:34	EVO-	8%	120	0.97	70	High injection pressure
IW-B18	NA	11:11	12:32	EVO-	8%	120	1.48	44	
IW-C05	NA	12:15	13:33	EVO-	8%	140	1.79	40	EVO volume complete
IW-B20	NA	11:32	12:55	EVO-	8%	120	1.45	42	
IW-C10	NA	12:39	14:05	EVO-	8%	20	0.23	80	High injection pressure
IW-B21	NA	13:07	14:14	EVO-	8%	120	1.79	40	
IW-C03	NA	13:45	15:35	EVO-	8%	60	0.55	78	High injection pressure
IW-D02	NA	13:37	14:34	EVO-	8%	120	2.11	48	
IW-C13	NA	14:19	15:34	EVO-	8%	120	1.60	52	
IW-C09	NA	14:08	15:18	EVO-	8%	100	1.43	14	EVO volume complete, extra 30
IW-D03	NA	14:40	15:30	EVO-	8%	60	1.20	56	
Daily Injection Totals:						2,360	1.41		

Total EVO Volume Injected (gal):	2,360
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	322.3
Sodium Bicarbonate Used (lbs.):	194.2
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	55.50

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 2, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C03	NA	7:28	9:18	EVO-	8%	60	0.55	84	Pressure as high as 84, reduced
IW-A07	NA	7:28	8:34	EVO-	8%	120	1.82	24	
IW-B09	NA	7:28	9:50	EVO-	8%	120	0.85	30	EVO volume complete
IW-B15	NA	7:28	8:58	EVO-	8%	120	1.33	44	
IW-C13	NA	9:04	10:32	EVO-	8%	120	1.36	56	
IW-C08	NA	8:54	11:19	EVO-	8%	120	0.83	62	
IW-B08	NA	8:38	9:36	EVO-	8%	120	2.07	46	
IW-A01	NA	9:30	10:28	EVO-	8%	120	2.07	20	
IW-A15	NA	10:37	11:39	EVO-	8%	120	1.94	22	
IW-A08	NA	9:40	10:40	EVO-	8%	120	2.00	22	
IW-B10	NA	11:27	12:36	EVO-	8%	120	1.74	32	
IW-C01	NA	10:27	13:05	EVO-	8%	120	0.76	80	High injection pressure
IW-C07	NA	10:43	11:23	EVO-	8%	65	1.63	60	EVO volume complete
IW-A02	NA	13:11	14:16	EVO-	8%	120	1.85	30	
IW-B19	NA	11:52	12:50	EVO-	8%	120	2.07	46	
IW-B07	NA	11:38	12:05	EVO-	8%	55	2.04	32	EVO volume complete
IW-C09	NA	12:41	13:58	EVO-	8%	120	1.56	28	
IW-D04	NA	12:11	13:20	EVO-	8%	135	1.96	12	EVO volume complete
IW-B20	NA	12:52	14:24	EVO-	8%	120	1.30	54	
IW-C06	NA	13:34	14:20	EVO-	8%	55	1.20	50	EVO volume complete
IW-D05	NA	14:05	15:44	EVO-	8%	60	0.61	64	
IW-B21	NA	14:33	15:57	EVO-	8%	120	1.43	42	
IW-B02	NA	14:24	15:59	EVO-	8%	120	1.26	62	Pressure dropped from 62 to 42
IW-B06	NA	14:28	15:41	EVO-	8%	110	1.51	56	
Daily Injection Totals:						2,580	1.49		

Total EVO Volume Injected (gal):	2,580
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	352.4
Sodium Bicarbonate Used (lbs.):	212.3
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	60.67

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
December 1, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C04	NA	7:26	9:08	EVO-	8%	60	0.59	78	High injection pressure
IW-D08	NA	7:26	8:24	EVO-	8%	120	2.07	22	
IW-B08	NA	7:26	8:31	EVO-	8%	120	1.85	50	
IW-B16	NA	7:26	8:32	EVO-	8%	120	1.82	22	
IW-B02	NA	9:28	11:04	EVO-	8%	120	1.25	54	
IW-B15	NA	8:27	10:29	EVO-	8%	120	0.98	60	
IW-B07	NA	8:37	9:34	EVO-	8%	120	2.11	38	
IW-B17	NA	8:39	10:17	EVO-	8%	120	1.22	30	
IW-A15	NA	10:37	11:43	EVO-	8%	120	1.82	24	
IW-C05	NA	9:42	10:41	EVO-	8%	120	2.03	28	
IW-B18	NA	10:26	11:32	EVO-	8%	120	1.82	44	
IW-C02	NA	11:10	14:13	EVO-	8%	120	0.66	76	High injection pressure
IW-C06	NA	10:50	12:40	EVO-	8%	120	1.09	64	
IW-C13	NA	11:48	13:39	EVO-	8%	120	1.08	56	
IW-C08	NA	11:38	14:25	EVO-	8%	120	0.72	60	
IW-D03	NA	12:48	14:15	EVO-	8%	60	0.69	74	High injection pressure
IW-C01	NA	14:22	15:54	EVO-	8%	60	0.65	76	
IW-B09	NA	14:36	16:06	EVO-	8%	120	1.33	44	
IW-B13	NA	13:45	14:47	EVO-	8%	120	1.94	10	
IW-B06	NA	14:26	15:49	EVO-	8%	120	1.45	56	
IW-B19	NA	14:53	16:00	EVO-	8%	120	1.79	42	
Daily Injection Totals:						2,340	1.38		

Total EVO Volume Injected (gal):	2,340
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	319.6
Sodium Bicarbonate Used (lbs.):	192.6
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	55.03

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 30, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C10	NA	7:25	8:04	EVO-	8%	5	0.13	80	Couldn't pump below 80 psi
IW-B15	NA	7:25	8:44	EVO-	8%	120	1.52	45	
IW-D01	NA	7:25	9:32	EVO-	8%	120	0.94	76	High injection pressure
IW-D03	NA	7:25	9:16	EVO-	8%	120	1.08	74	High injection pressure
IW-B02	NA	9:43	11:00	EVO-	8%	120	1.56	76	High injection pressure
IW-B08	NA	9:25	10:45	EVO-	8%	120	1.50	60	
IW-B09	NA	8:05	9:50	EVO-	8%	120	1.14	60	
IW-C13	NA	8:51	9:49	EVO-	8%	60	1.03	60	
IW-C08	NA	9:57	11:36	EVO-	8%	30	0.30	80	High injection pressure
IW-B19	NA	9:55	10:44	EVO-	8%	60	1.22	60	
IW-B06	NA	10:52	12:30	EVO-	8%	120	1.22	58	
IW-C01	NA	11:07	12:50	EVO-	8%	60	0.58	80	High injection pressure
IW-B20	NA	10:55	12:05	EVO-	8%	120	1.71	46	
IW-D05	NA	11:38	13:52	EVO-	8%	90	0.67	78	High injection pressure
IW-B05	NA	12:34	13:43	EVO-	8%	120	1.74	28	
IW-C03	NA	12:52	14:21	EVO-	8%	40	0.45	78	High injection pressure
IW-B21	NA	12:16	13:21	EVO-	8%	120	1.85	48	
IW-B11	NA	13:55	15:26	EVO-	8%	120	1.32	48	
IW-B14	NA	13:26	14:41	EVO-	8%	120	1.60	54	
IW-C07	NA	13:50	15:07	EVO-	8%	120	1.56	68	
IW-B04	NA	14:25	16:05	EVO-	8%	140	1.40	72	Pressure dropped to 48 psi after
IW-B13	NA	14:49	15:52	EVO-	8%	120	1.90	24	
IW-B16	NA	15:32	16:04	EVO-	8%	60	1.88	20	
IW-D04	NA	15:13	16:09	EVO-	8%	120	2.14	6	
Daily Injection Totals:						2,345	1.27		

Total EVO Volume Injected (gal):	2,345
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	320.3
Sodium Bicarbonate Used (lbs.):	193.0
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	55.14

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 29, 2022	901312	Kevin O'Neal, Melanie Chen, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B01	NA	7:34	8:44	EVO-	8%	25	0.36	80	High injection pressure
IW-C07	NA	7:34	9:04	EVO-	8%	120	1.33	68	
IW-B09	NA	7:34	8:54	EVO-	8%	60	0.75	56	
IW-B15	NA	7:41	9:14	EVO-	8%	60	0.65	70	High injection pressure
IW-B02	NA	8:46	10:39	EVO-	8%	95	0.84	80	High injection pressure
IW-B08	NA	9:12	10:48	EVO-	8%	120	1.25	70	High injection pressure
IW-C08	NA	9:03	10:42	EVO-	8%	25	0.25	78	High injection pressure
IW-C13	NA	9:25	12:01	EVO-	8%	120	0.77	72	High injection pressure
IW-C01	NA	10:48	12:10	EVO-	8%	45	0.55	78	High injection pressure
IW-B10	NA	10:46	12:05	EVO-	8%	95	1.20	30	
IW-B07	NA	10:53	11:59	EVO-	8%	120	1.82	28	
IW-B14	NA	12:07	13:28	EVO-	8%	120	1.48	46	
IW-C02	NA	12:10	14:06	EVO-	8%	75	0.65	78	High injection pressure
IW-C09	NA	12:14	13:21	EVO-	8%	120	1.79	36	
IW-D04	NA	12:04	13:07	EVO-	8%	120	1.90	20	
IW-B13	NA	13:33	14:37	EVO-	8%	120	1.88	56	Pressure dropped from 56 to 28 psi
IW-B03	NA	14:13	15:44	EVO-	8%	120	1.32	50	
IW-D05	NA	13:26	15:59	EVO-	8%	120	0.78	70	High injection pressure
IW-C06	NA	13:13	14:54	EVO-	8%	120	1.19	60	
IW-D07	NA	14:40	15:51	EVO-	8%	120	1.69	24	
IW-C03	NA	15:50	16:18	EVO-	8%	30	1.07	60	
IW-B06	NA	14:56	15:58	EVO-	8%	60	0.97	80	High injection pressure
IW-B15	NA	15:52	16:22	EVO-	8%	30	1.00	70	High injection pressure
Daily Injection Totals:						2,040	1.11		

Total EVO Volume Injected (gal):	2,040
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	278.6
Sodium Bicarbonate Used (lbs.):	167.9
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	47.97

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 18, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A01	NA	7:15	7:24	Water		20	2.22	12	
IW-B08	NA	7:15	7:30	Water		20	1.33	70	
IW-B21	NA	7:15	7:32	Water		20	1.18	30	
IW-B18	NA	7:15	7:32	Water		20	1.18	40	
IW-C01	NA	7:24	7:58	Water		10	0.29	78	
IW-A08	NA	7:30	7:44	Water		20	1.43	20	
IW-A21	NA	7:37	7:55	Water		20	1.11	26	
IW-B17	NA	7:37	7:48	Water		20	1.82	22	
IW-A02	NA	8:00	8:26	Water		30	1.15	20	
IW-C07	NA	7:45	8:04	Water		20	1.05	62	
IW-B20	NA	7:57	8:19	Water		20	0.91	58	
IW-A17	NA	7:49	8:04	Water		20	1.33	12	
IW-B07	NA	8:10	8:30	Water		35	1.75	20	
IW-A20	NA	8:22	8:38	Water		20	1.25	20	
IW-B16	NA	8:08	8:17	Water		20	2.22	18	
IW-C02	NA	8:27	9:11	Water		25	0.57	68	
IW-A07	NA	8:32	8:45	Water		25	1.92	20	
IW-A16	NA	8:19	8:34	Water		30	2.00	20	
IW-A09	NA	8:38	9:00	Water		30	1.36	18	
IW-B19	NA	8:41	9:24	Water		20	0.47	74	
IW-B09	NA	9:02	9:28	Water		20	0.77	42	
IW-A03	NA	9:11	9:47	Water		15	0.42	78	
IW-D04	NA	8:45	9:57	Water		30	0.42	6	
IW-A19	NA	9:27	9:51	Water		20	0.83	42	
IW-C06	NA	8:48	9:10	Water		30	1.36	65	
IW-B06	NA	9:10	9:16	Water		0	0.00	80	
IW-A06	NA	9:18	9:43	Water		40	1.60	30	
IW-C08	NA	9:29	10:04	Water		10	0.29	70	
IW-B03	NA	9:49	10:05	Water		20	1.25	20	
IW-D03	NA	9:45	10:16	Water		30	0.97	58	
IW-A10	NA	10:04	10:23	Water		30	1.58	18	
IW-C05	NA	10:16	10:32	Water		30	1.88	52	
IW-A15	NA	9:53	10:18	Water		25	1.00	18	
IW-C03	NA	10:06	10:25	Water		30	1.58	50	
IW-C13	NA	10:18	10:36	Water		10	0.56	80	
IW-B10	NA	10:23	10:41	Water		30	1.67	20	
IW-D01	NA	10:27	10:59	Water		15	0.47	80	
IW-B05	NA	10:32	10:47	Water		30	2.00	45	
IW-B14	NA	10:36	11:02	Water		25	0.96	52	
IW-C09	NA	10:44	11:06	Water		40	1.82	30	
IW-A04	NA	11:01	11:21	Water		15	0.75	64	
IW-A05	NA	10:48	11:12	Water		40	1.67	28	
IW-A14	NA	11:03	11:18	Water		20	1.33	18	
IW-D05	NA	11:07	11:49	Water		20	0.48	74	
IW-D02	NA	11:14	11:29	Water		20	1.33	56	
IW-B04	NA	11:23	11:40	Water		25	1.47	8	
IW-D08	NA	11:19	11:52	Water		40	1.21	20	
IW-A11	NA	11:51	12:04	Water		25	1.92	20	
IW-C04	NA	11:31	12:01	Water		20	0.67	80	
IW-B13	NA	11:54	12:10	Water		20	1.25	42	

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 18, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-D07	NA	11:41	12:13	Water		35	1.09	40	
IW-B11	NA	12:05	12:17	Water		25	2.08	22	
IW-C10	NA	12:17	12:31	Water		5	0.36	74	
IW-A12	NA	12:15	12:30	Water		25	1.67	14	
IW-A13	NA	12:12	12:26	Water		25	1.79	22	
Daily Injection Totals:						1,285	1.22		

Total EVO Volume Injected (gal):	0
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	0.0
Sodium Bicarbonate Used (lbs.):	0.0
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	0.00

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 17, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A05	NA	7:20	8:25	EVO+	8%	120	1.85	28	
IW-A11	NA	7:20	8:37	EVO+	8%	120	1.56	20	
IW-B03	NA	7:20	9:18	EVO+	8%	120	1.02	68	
IW-B13	NA	7:20	8:40	EVO+	8%	120	1.50	48	
IW-A03	NA	9:23	10:28	EVO+	8%	120	1.85	28	
IW-A07	NA	8:32	9:33	EVO+	8%	120	1.97	42	
IW-A13	NA	8:44	9:44	EVO+	8%	120	2.00	30	
IW-B09	NA	8:42	9:46	EVO+	8%	60	0.94	68	
IW-C06	NA	9:36	11:44	EVO+	8%	120	0.94	72	High injection pressure
IW-B14	NA	9:55	11:02	EVO+	8%	120	1.79	54	
IW-B11	NA	9:57	11:09	EVO+	8%	120	1.67	32	
IW-C03	NA	10:33	12:23	EVO+	8%	120	1.09	64	
IW-C07	NA	11:53	14:00	EVO+	8%	90	0.71	70	High injection pressure
IW-A14	NA	11:10	12:20	EVO+	8%	120	1.71	24	
IW-C09	NA	11:13	12:31	EVO+	8%	120	1.54	50	
IW-C01	NA	12:33	13:34	EVO+	8%	10	0.16	76	High injection pressure
IW-D05	NA	12:37	14:09	EVO+	8%	40	0.43	74	High injection pressure
IW-D08	NA	12:29	13:31	EVO+	8%	120	1.94	20	
IW-A08	NA	14:06	15:02	EVO+	8%	90	1.61	22	
IW-C12	NA	13:39	13:43	EVO+	8%	0	0.00	80	Couldn't pump below 80 psi
IW-A09	NA	14:15	15:01	EVO+	8%	80	1.74	30	
IW-C04	NA	13:36	13:50	EVO+	8%	10	0.71	80	Couldn't pump below 80 psi
IW-A13	NA	13:47	14:52	EVO+	8%	120	1.85	30	
IW-A02	NA	13:54	14:55	EVO+	8%	100	1.64	36	
Daily Injection Totals:						2,280	1.34		

Total EVO Volume Injected (gal):	2,280
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	311.4
Sodium Bicarbonate Used (lbs.):	187.7
TSI-FSA Used (gal)	75.73
Nutrimax Used (lbs)	53.62

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 16, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-C10	NA	7:15	8:23	EVO-	8%	20	0.29	76	
IW-A19	NA	7:15	8:21	EVO-	8%	120	1.82	26	
IW-C02	NA	7:15	8:22	EVO-	8%	10	0.15	74	
IW-C06	NA	7:15	9:27	EVO-	8%	60	0.45	56	
IW-B11	NA	8:25	9:55	EVO-	8%	100	1.11	70	pressure increased to 70 psi then
IW-A20	NA	8:27	9:30	EVO-	8%	120	1.90	20	
IW-A03	NA	8:23	9:17	EVO-	8%	110	2.04	22	
IW-D04	NA	9:44	10:40	EVO-	8%	120	2.14	10	
IW-C13	NA	10:00	11:06	EVO-	8%	15	0.23	74	High injection pressure
IW-B20	NA	9:38	11:16	EVO-	8%	120	1.22	76	
IW-B03	NA	9:31	11:16	EVO-	8%	120	1.14	58	pressure dropped from 58 to 42
IW-A07	NA	10:44	12:01	EVO-	8%	120	1.56	48	
IW-A21	NA	11:29	13:01	EVO-	8%	120	1.30	60	
IW-D01	NA	11:20	12:19	EVO-	8%	15	0.25	76	High injection pressure
IW-B13	NA	11:09	12:26	EVO-	8%	105	1.36	46	
IW-B07	NA	12:07	13:03	EVO-	8%	120	2.14	28	
IW-B14	NA	12:32	13:32	EVO-	8%	60	1.00	70	High injection pressure
IW-B21	NA	13:13	14:29	EVO-	8%	120	1.58	48	
IW-D02	NA	12:21	13:59	EVO-	8%	45	0.46	72	High injection pressure
IW-C07	NA	13:10	14:58	EVO-	8%	120	1.11	76	High injection pressure
IW-A05	NA	14:03	15:06	EVO-	8%	135	2.14	30	
IW-A13	NA	14:39	15:48	EVO-	8%	120	1.74	30	
IW-A08	NA	15:06	16:08	EVO-	8%	120	1.94	35	
IW-C09	NA	13:36	14:54	EVO-	8%	120	1.54	50	
IW-A09	NA	15:01	16:10	EVO-	8%	120	1.74	20	
IW-B05	NA	15:11	16:14	EVO-	8%	120	1.90	22	
IW-A14	NA	15:51	16:19	EVO-	8%	60	2.14	28	
Daily Injection Totals:						2,535	1.35		

Total EVO Volume Injected (gal):	2,535
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	346.2
Sodium Bicarbonate Used (lbs.):	208.6
TSI-FSA Used (gal)	0.00
Nutrimax Used (lbs)	59.61

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 15, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A04	NA	7:16	8:59	EVO+	8%	120	1.17	20	
IW-A06	NA	7:21	9:01	EVO+	8%	120	1.20	44	
IW-A10	NA	7:16	8:32	EVO+	8%	120	1.58	32	
IW-B21	NA	7:13	8:25	EVO-	8%	110	1.53	58	
IW-B03	NA	9:20	11:01	EVO+	8%	60	0.59	68	
IW-B07	NA	9:20	10:46	EVO+	8%	120	1.40	58	Pressure increased from 32 to 58
IW-A11	NA	8:41	10:50	EVO+	8%	120	0.93	30	Low flow rate due to pump issues,
IW-A19	NA	8:36	9:35	EVO-	8%	120	2.03	32	Pressure dropped from 50 to 32
IW-A17	NA	10:56	11:52	EVO+	8%	120	2.14	28	
IW-B19	NA	9:41	10:00	Water		0	0.00	74	High injection pressure
IW-B08	NA	10:54	12:06	EVO+	8%	15	0.21	70	High injection pressure
IW-B04	NA	11:12	12:06	EVO+	8%	15	0.28	68	High injection pressure
IW-A20	NA	10:09	11:17	EVO-	8%	120	1.76	20	
IW-D07	NA	11:23	12:55	EVO+	8%	75	0.82	66	Stopped injections due to presence
IW-B10	NA	12:00	14:43	EVO+	8%	120	0.74	74	High injection pressure
IW-B05	NA	12:12	13:35	EVO+	8%	100	1.20	32	
IW-C01	NA	12:12	13:28	EVO+	8%	10	0.13	74	High injection pressure
IW-D08	NA	12:59	13:49	EVO+	8%	100	2.00	30	
IW-A05	NA	13:31	14:48	EVO+	8%	85	1.10	36	
IW-C05	NA	13:43	15:09	EVO+	8%	120	1.40	36	
IW-C08	NA	14:51	15:58	EVO+	8%	20	0.30	70	High injection pressure
IW-A12	NA	13:53	14:57	EVO+	8%	120	1.88	18	
IW-C04	NA	14:53	16:22	EVO+	8%	45	0.51	74	High injection pressure
IW-D03	NA	15:15	16:28	EVO+	8%	60	0.82	56	
IW-A15	NA	15:02	16:37	EVO+	8%	135	1.42	42	
IW-B09	NA	16:00	16:35	EVO+	8%	40	1.14	56	
Daily Injection Totals:						2,190	1.09		

Total EVO Volume Injected (gal):	2,190
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	299.1
Sodium Bicarbonate Used (lbs.):	180.2
TSI-FSA Used (gal)	61.11
Nutrimax Used (lbs)	51.50

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 14, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A01	NA	7:32	8:52	EVO+	8%	120	1.50	16	
IW-D02	NA	7:32	8:46	EVO+	8%	10	0.14	60	Couldn't pump below 60 psi
IW-B18	NA	7:32	8:54	EVO+	8%	120	1.46	48	
IW-A19	NA	7:32	8:41	EVO+	8%	120	1.74	56	
IW-B19	NA	8:53	11:14	EVO+	8%	25	0.18	66	Couldn't keep pressure below 60 psi
IW-C03	NA	9:15	9:55	EVO-	8%	10	0.25	66	
IW-D03	NA	9:15	11:41	EVO-	8%	40	0.27	60	
IW-B10	NA	9:18	10:47	EVO-	8%	120	1.35	40	
IW-A20	NA	11:18	11:44	EVO+	8%	35	1.35	40	
IW-A20	NA	11:44	12:44	EVO-	8%	120	2.00	30	Pressure gradually decreased from
IW-B04	NA	9:58	11:32	EVO-	8%	110	1.17	60	Pressure gradually decreased from
IW-B07	NA	11:48	12:47	EVO-	8%	20	0.34	60	
IW-A10	NA	11:06	12:14	EVO-	8%	120	1.76	26	
IW-C04	NA	11:38	13:13	EVO-	8%	15	0.16	60	Couldn't keep pressure below 60 psi
IW-C09	NA	12:33	15:04	EVO-	8%	120	0.79	60	
IW-B20	NA	12:51	15:08	EVO-	8%	100	0.73	60	
IW-A08	NA	13:05	14:07	EVO-	8%	120	1.94	38	pressure dropped from 38 to 32 psi
IW-B05	NA	13:16	15:05	EVO-	8%	105	0.96	40	
IW-B09	NA	15:16	16:16	EVO-	8%	10	0.17	60	
IW-A21	NA	15:13	16:27	EVO-	8%	140	1.89	42	
IW-C07	NA	14:16	16:18	EVO-	8%	40	0.33	60	
IW-C06	NA	15:40	16:21	EVO-	8%	30	0.73	60	
Daily Injection Totals:						1,650	0.96		

Total EVO Volume Injected (gal):	1,650
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	225.4
Sodium Bicarbonate Used (lbs.):	135.8
TSI-FSA Used (gal)	14.28
Nutrimax Used (lbs)	38.80

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 13, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A16	NA	7:25	8:34	EVO+	8%	120	1.74	30	
IW-A09	NA	7:25	8:35	EVO+	8%	120	1.71	20	
IW-A06	NA	7:28	8:54	EVO+	8%	120	1.40	44	
IW-A01	NA	7:28	8:34	EVO+	8%	120	1.82	18	
IW-B16	NA	8:40	9:53	EVO+	8%	120	1.64	28	
IW-B09	NA	8:42	9:29	EVO+	8%	25	0.53	64	Couldn't keep pressure below 60
IW-D03	NA	9:01	10:45	EVO+	8%	60	0.58	56	
IW-C01	NA	8:41	9:53	EVO+	8%	120	1.67	30	
IW-A17	NA	10:01	11:20	EVO+	8%	120	1.52	14	
IW-A10	NA	9:30	10:25	EVO+	8%	95	1.73	24	
IW-C05	NA	11:08	12:21	EVO+	8%	60	0.82	58	
IW-A02	NA	9:59	11:10	EVO+	8%	120	1.69	30	
IW-C03	NA	10:31	11:28	EVO+	8%	20	0.35	60	
IW-B17	NA	11:26	12:44	EVO+	8%	120	1.54	36	
IW-C02	NA	11:22	12:24	EVO+	8%	20	0.32	60	
IW-D01	NA	11:31	12:07	EVO+	8%	20	0.56	66	Couldn't keep pressure below 60
IW-B05	NA	13:00	14:22	EVO+	8%	60	0.73	50	
IW-B18	NA	13:10	14:43	EVO+	8%	120	1.29	48	
IW-D02	NA	12:28	14:44	EVO+	8%	100	0.74	60	
IW-A04	NA	12:11	13:05	EVO+	8%	140	2.59	20	
Daily Injection Totals:						1,800	1.25		

Total EVO Volume Injected (gal):	1,800
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	245.8
Sodium Bicarbonate Used (lbs.):	148.1
TSI-FSA Used (gal)	59.79
Nutrimax Used (lbs)	42.33

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 12, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A15	NA	7:33	8:56	EVO+	8%	120	1.45	30	
IW-A07	NA	7:26	8:41	EVO+	8%	90	1.20	58	
IW-A11	NA	7:23	8:32	EVO+	8%	120	1.74	24	
IW-A04	NA	7:25	11:49	EVO+	8%	120	0.45	24	
IW-B07	NA	8:52	10:50	EVO+	8%	60	0.51	60	
IW-B11	NA	9:04	11:00	EVO+	8%	60	0.52	60	
IW-B04	NA	8:34	9:38	EVO+	8%	15	0.23	60	Couldn't keep pressure below 60
IW-A16	NA	8:39	9:46	EVO+	8%	120	1.79	30	
IW-C04	NA	9:39	11:08	EVO+	8%	45	0.51	60	High injection pressure
IW-B16	NA	9:52	11:15	EVO+	8%	120	1.45	20	
IW-C07	NA	10:52	12:28	EVO+	8%	60	0.63	56	
IW-C10	NA	11:26	11:30	Water		0	0.00	74	Immediate high pressure
IW-D02	NA	11:29	13:28	EVO+	8%	120	1.01	58	
IW-A17	NA	11:24	12:26	EVO+	8%	120	1.94	18	
IW-A08	NA	12:45	13:42	EVO+	8%	60	1.05	54	
IW-A12	NA	11:36	12:34	EVO+	8%	120	2.07	10	
IW-B17	NA	12:33	13:48	EVO+	8%	120	1.60	40	
IW-A05	NA	13:58	14:05	EVO+	8%	10	1.43	32	Shut down due to possible surfacing
IW-D07	NA	12:50	14:04	EVO+	8%	90	1.22	65	Pressure increased from 32 to 60+
IW-B08	NA	13:51	14:05	EVO+	8%	5	0.36	56	Shut down due to possible surfacing
IW-B18	NA	13:56	14:05	EVO+	8%	15	1.67	46	Shut down due to possible surfacing
IW-B18	NA	15:02	16:13	EVO+	8%	45	0.63	46	
IW-A05	NA	15:02	16:22	EVO+	8%	110	1.38	40	
IW-C05	NA	15:08	16:25	EVO+	8%	55	0.71	40	
IW-A10	NA	15:27	16:31	EVO+	8%	120	1.88	20	
Daily Injection Totals:						1,920	1.10		

Total EVO Volume Injected (gal):	1,920
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	262.2
Sodium Bicarbonate Used (lbs.):	158.0
TSI-FSA Used (gal)	63.77
Nutrimax Used (lbs)	45.15

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

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Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 11, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-A09	NA	7:46	9:01	EVO+	8%	120	1.60	22	
IW-C05	NA	7:47	9:23	EVO+	8%	120	1.25	46	
IW-A02	NA	7:45	9:10	EVO+	8%	120	1.41	30	
IW-D07	NA	7:48	9:16	EVO+	8%	120	1.36	30	
IW-C02	NA	9:17	11:30	EVO+	8%	85	0.64	60	Pressure increased to above 60 psi
IW-D03	NA	9:33	11:03	EVO+	8%	120	1.33	50	Pressure slowly increased from 20
IW-A13	NA	9:24	10:47	EVO+	8%	120	1.45	30	
IW-B09	NA	9:07	10:07	EVO+	8%	60	1.00	60	Pressure slowly increased from 40
IW-A03	NA	11:49	12:48	EVO+	8%	95	1.61	22	Previous attempt pressures were
IW-A06	NA	11:17	13:05	EVO+	8%	120	1.11	46	
IW-B13	NA	10:55	11:47	EVO+	8%	60	1.15	50	
IW-C08	NA	10:26	11:43	EVO+	8%	20	0.26	58	High injection pressure
IW-B06	NA	13:15	13:23	Water		0	0.00	65	High injection pressure
IW-D08	NA	11:57	13:27	EVO+	8%	120	1.33	40	
IW-A10	NA	11:46	12:43	EVO+	8%	100	1.75	20	
IW-B03	NA	13:01	14:11	EVO+	8%	30	0.43	65	Pressure increased from 40 to 65
IW-B10	NA	12:50	14:37	EVO+	8%	120	1.12	54	
IW-A14	NA	13:33	15:15	EVO+	8%	120	1.18	30	
IW-C03	NA	14:13	15:15	EVO+	8%	40	0.65	70	Injected between 50-60 psi. Could
IW-C09	NA	14:46	14:55	Water		0	0.00	65	High injection pressure
IW-C06	NA	13:25	15:19	EVO+	8%	120	1.05	56	
IW-B14	NA	15:20	16:29	EVO+	8%	60	0.87	60	
IW-D04	NA	15:30	16:30	EVO+	8%	120	2.00	16	
IW-D05	NA	14:57	16:30	EVO+	8%	90	0.97	60	
IW-D01	NA	15:17	16:35	EVO+	8%	110	1.41	32	
Daily Injection Totals:						2,190	1.08		

Total EVO Volume Injected (gal):	2,190
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	299.1
Sodium Bicarbonate Used (lbs.):	180.2
TSI-FSA Used (gal)	72.74
Nutrimax Used (lbs)	51.50

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

11 Princess Road, Suite A Lawrenceville, NJ 08648 609-275-8500	Treatment Program Daily Report	ISOTEC

Date	ISOTEC Project #	ISOTEC Personnel On-Site	Project Name
November 10, 2022	901312	Kevin O'Neal, Pat Gallagher, Will Shaw	PES - American Linen - Seattle, WA

Injection Point ID	Screen Interval (ft bgs)	Start Time	Stop Time	Reagent	Concentration	Volume (gal)	Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IW-B04	NA	7:23	8:05	EVO	8%	15	0.36	45	Pre-Injection Pressure = 14
IW-B07	NA	7:23	9:41	EVO	8%	60	0.43	40	Pre-Injection Pressure = 8
IW-D06	NA	7:22	8:42	EVO	8%	90	1.13	30	Pre-Injection Pressure = 12
IW-A21	NA	7:24	8:32	EVO	8%	60	0.88	30	Pre-Injection Pressure = 10
IW-C04	NA	8:06	8:39	EVO	8%	45	1.36	26	Pre-Injection Pressure = 20
IW-A12	NA	8:49	9:43	EVO	8%	90	1.67	16	Pre-Injection Pressure = 10
IW-B20	NA	8:46	10:18	EVO	8%	60	0.65	48	Pre-Injection Pressure = 18
IW-C07	NA	9:58	10:43	EVO	8%	60	1.33	20	Pre-Injection Pressure = 4
IW-D02	NA	8:53	9:31	EVO	8%	60	1.58	20	Pre-Injection Pressure = 18
IW-A05	NA	9:34	10:53	EVO	8%	60	0.76	38	Pre-Injection Pressure = 16
IW-B12	NA	9:49	10:52	EVO	8%	20	0.32	42	Pre-Injection Pressure = 16
IW-A20	NA	10:32	11:35	EVO	8%	60	0.95	35	Pre-Injection Pressure = 20
IW-B05	NA	11:06	13:05	EVO	8%	60	0.50	40	Pre-Injection Pressure = 18
IW-A08	NA	10:52	12:23	EVO	8%	60	0.66	36	Pre-Injection Pressure = 16
IW-A16	NA	11:00	11:33	EVO	8%	40	1.21	22	Pre-Injection Pressure = 8
IW-B19	NA	11:49	12:45	EVO	8%	60	1.07	40	Pre-Injection Pressure = 14
IW-B16	NA	11:42	12:19	EVO	8%	60	1.62	18	Pre-Injection Pressure = 12
IW-A17	NA	12:27	12:58	EVO	8%	60	1.94	16	Pre-Injection Pressure = 10
IW-B08	NA	12:43	13:31	EVO	8%	10	0.21	40	Pre-Injection Pressure = 22
IW-A19	NA	12:48	14:15	EVO	8%	80	0.92	30	Pre-Injection Pressure = 16
IW-B17	NA	13:07	14:24	EVO	8%	60	0.78	24	Pre-Injection Pressure = 15
IW-C01	NA	13:08	15:01	EVO	8%	80	0.71	24	Pre-Injection Pressure = 12
IW-B02	NA	13:40	13:41	Water		0	0.00	60	Pre-Injection Pressure = 15
IW-B01	NA	13:50	13:51	Water		0	0.00	40	Pre-Injection Pressure = 18
IW-A01	NA	13:59	14:31	EVO	8%	60	1.87	32	Pre-Injection Pressure = 12
IW-A02	NA	14:35	15:17	EVO	8%	60	1.43	22	Pre-Injection Pressure = 12
IW-A18	NA	14:32	14:33	Water		0	0.00	80	Pre-Injection Pressure = 16
IW-B18	NA	14:25	15:18	EVO	8%	60	1.13	46	Pre-Injection Pressure = 14
IW-B17	NA	14:40	15:21	EVO	8%	60	1.46	30	
Daily Injection Totals:						1,490	0.93		

Total EVO Volume Injected (gal):	1,490
Anoxic Water Volume Injected (gal):	0
DHC Volume Injected (liters):	0.000
EVO Used (gal):	203.5
Sodium Bicarbonate Used (lbs.):	122.6
TSI-FSA Used (gal)	17.52
Nutrimax Used (lbs)	35.04

Notes:

gal = Gallons
psi = Pounds per Square Inch
gpm = Gallons Per Minute
ft = Feet
bgs = Below Ground Surface
EVO = Emulsified Vegetable Oil (standard TSI-FSA)
EVO+ = EVO with 3x concentrated TSI-FSA
EVO- = EVO with no TSI-FSA

ENHANCED IN-SITU DECHLORINATION INJECTION SUMMARY REPORT

SEATTLE DOT MERCER PARCELS
FORMER AMERICAN LINEN FACILITY
700 DEXTER AVENUE NORTH
SEATTLE, WASHINGTON

JULY 29, 2022

PREPARED FOR:

PES ENVIRONMENTAL, AN NV5 COMPANY
1215 4TH AVENUE, SUITE 1350
SEATTLE, WASHINGTON 98161

PROJECT NO. 901312

PREPARED BY:

IN-SITU OXIDATIVE TECHNOLOGIES, INC.
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1.0 EXECUTIVE SUMMARY

In-Situ Oxidative Technologies, Inc. (ISOTEC) was retained by PES Environmental, Inc. (PES) to implement an enhanced in-situ dechlorination (EISD) program at the Seattle DOT Mercer Parcel site located in Seattle, Washington. The bioremediation program was designed to treat soil and groundwater impacted by chlorinated volatile organic compounds (CVOCs) released during commercial operations at the Former American Linen Facility. The Seattle DOT Mercer Parcel is located south of Roy Street and hydraulically downgradient of the American Lien Facility (see map in Attachment 1). The primary objective of the bioremediation program was to substantially reduce concentrations of CVOCs in soil and groundwater prior to site redevelopment activities at the Seattle DOT Mercer Parcel scheduled to start in late 2022. The remediation activities detailed in this summary report were performed in accordance with the Interim Action Remediation Work Plan (IAWP) Addendum Number 2 for the site prepared by PES.

Field operations associated with this bioremediation program were conducted by ISOTEC during a single mobilization to the site in April 2022. Equipment mobilization activities commenced on April 18 and were followed by seven days of reagent injections. A total of 10,005 gallons of emulsified vegetable oil (EVO) solution and 23 liters of bioaugmentation culture were injected through 10 injection wells installed in an area of the site with elevated concentrations of CVOCs. The subsurface interval targeted for treatment was the upper 15 feet of the Intermediate B Zone water-bearing unit. Groundwater parameter monitoring was conducted daily by PES personnel at monitoring wells located within and immediately downgradient of the treatment area. Injection activities concluded on April 25. ISOTEC fully demobilized all personnel, materials, and equipment from the site the following day.

Overview of Bioremediation Program Field Activities

Task	Dates Completed
Equipment Mobilization	April 18 to 19
Chemical Delivery	April 19
Reagent Injection	April 19 to 25
Groundwater Parameter Monitoring	April 19 to 25
Equipment Demobilization	April 25 to 26

2.0 SITE CHARACTERISTICS

The Seattle DOT Mercer Parcels Site is located at 800 Mercer Street in Seattle, Washington and encompasses four parcels totaling 1.45-acres. The parcels are bound by the Former American Linen Facility and Roy Street to the north, Mercer Street to the south, Dexter Avenue North to the west and 9th Avenue North to the east. All four parcels are currently vacant and are primarily used for construction equipment staging and storage.

Four water-bearing units, referred to as the Shallow, Intermediate A, Intermediate B and Deep Zones, have been identified and characterized at the site. The remediation activities detailed in this report are focused primarily on the Intermediate A and Intermediate B zones. Depth to groundwater during an August 2021 sampling event ranged from approximately 27 to 33 feet bgs at Intermediate A Zone wells and from approximately 28 to 33 feet bgs at Intermediate B Zone wells.

Surficial fill deposits composed of sand with silt, silty sand, and sandy silt, with varying amounts of gravel occur across much of the site to a depth of 15 to 20 feet below ground surface (bgs). Dense to very dense, fines-rich silty sand, sandy silt, and silt with varying amounts of gravel underlie the fill deposits to a depth of approximately 69 feet below bgs.

The primary CVOCs of concern at the Seattle DOT Mercer Parcels Site are tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC). The highest concentrations of these compounds occur within a 'hotspot' area in the vicinity of Intermediate B Zone monitoring well HMW-9IB. The maximum concentrations of PCE, TCE, cDCE, and VC measured in HMW-9IB during four groundwater monitoring events conducted from March 2020 to August 2021 were 660 micrograms per liter (µg/L), 420 µg/L, 9,100 µg/L, and 1,900 µg/L, respectively, with the highest concentrations being reductive dechlorination products.

2.1 ISOTEC REMEDIATION ACTIVITIES

ISOTEC performed in-situ remediation activities at the adjacent Former American Linen Facility from 2018 to 2021, including three rounds of source area in-situ chemical oxidation (ISCO) between September 2018 and January 2019, source area in-situ bioremediation via enhanced reductive dechlorination (ERD) in February 2019, and in-situ bioremediation permeable reactive barriers (PRBs) along Roy Street and 8th Avenue North in October 2020 and February 2021. Modified Fenton's Reagent, consisting of hydrogen peroxide with stabilizers and proprietary chelated iron complex catalysts to catalyze the hydrogen peroxide, was the implemented ISCO technology. In-situ bioremediation within the source area and PRBs utilized emulsified vegetable oil (EVO) as the primary carbon substrate electron donor and anaerobic dechlorinating bacteria for bioaugmentation.

3.0 BIOREMEDIATION PROGRAM APPROACH

3.1 BIOREMEDIATION PROGRAM OBJECTIVES

The primary objective of the bioremediation program was to substantially reduce CVOC mass within an area of concern around monitoring well HMW-9IB prior to site redevelopment activities. Bioremediation via ERD was selected to treat CVOCs based on the successful use of this technology at the adjacent Former American Linen Facility site and similar aquifer conditions (CVOC concentrations, geochemical parameters, groundwater movement, and lithologies) at both sites.

3.2 BIOREMEDIATION PROGRAM DESIGN

The bioremediation program was designed to target elevated concentrations of CVOCs across an approximately 4,500 square foot treatment area that encompassed monitoring well HMW-9IB in the western half of the Seattle DOT Mercer Parcels Site. This treatment area was bound by the Mercer Street Tunnel to the north and several monitoring wells with low CVOC concentrations to the north, south and east (MW-345 and MW-346 to MW-349). Environmental sampling performed by PES delineated the area where in-situ remediation was performed. A total of 10 injection wells were installed by PES prior to the commencement of injection activities. The injection wells were 2-inch PVC with 20-slot screens. Injection wells were spaced approximately 24 feet apart in a hexagonal (i.e., offset) grid-like pattern across the entire extent of the treatment area. The number of wells and the spacing between wells was based upon an anticipated 12-foot reagent distribution radius. The subsurface zone targeted for treatment was the uppermost 15 feet of the Intermediate B Zone water-bearing unit.

4.0 TECHNOLOGY OVERVIEW

Implementation of ERD technology at the site consisted of the subsurface injection of carbon substrates, pH buffers, supplemental nutrients, and dechlorinating bacteria to establish groundwater conditions suitable for the biodegradation CVOCs within the treatment area. Additional amendments that support abiotic degradation of CVOCs were injected concurrently with the biodegradation amendments.

4.1 DESCRIPTION OF AMENDMENTS

The amendments injected during the bioremediation program include:

- **Carbon Substrate:** The carbon substrate selected for use at the site was emulsified vegetable oil (EVO). EVO was procured from Terra Systems, Inc in two proprietary formulations, SRS-SD® and SRS-Z®, that contained emulsified soybean oil at concentrations of 60% and 45%, respectively.
    - SRS-SD® is an EVO with small oil droplets (median size 0.5 micron) commonly used for injection into sites with silts and other low permeability soils. This formulation is comprised of 60% soybean oil, 4-5% sodium lactate, emulsifiers, nutrients, Vitamin B12, and water.
    - Like SRS-SD®, the primary component of SRS-Z® is small droplet EVO. In addition to EVO, SRS-Z® contains sulfidated zero valent iron (ZVI) to support rapid abiotic dechlorination reactions. SRS-Z® is formulated as 45% soybean oil, 10% ZVI (4 micron), 3-4% sodium lactate, emulsifiers, nutrients, Vitamin B12, and water.
- **pH Buffers:** Food-grade sodium bicarbonate and calcium carbonate were procured from Terra Systems, Inc. to provide short-term and long-term pH buffering, respectively, and maintain groundwater pH in a range favorable for the viability of dechlorinating bacteria.
- **Supplemental Nutrients:** Nutrimax, a powder blend of nutrients and additives that contains nitrogen, phosphorus, and sulfate, was procured from Terra Systems, Inc. to aid bacteria growth and support abiotic degradation. The nitrogen and phosphorus accelerate biodegradation processes, while the sulfate facilitates abiotic degradation via the formation of iron sulfide precipitates.
- **Dechlorinating Bacteria:** KB-1® and KB-1® Primer were procured from SiREM for the bioaugmentation phase of the bioremediation program. KB-1® is a non-pathogenic microbial culture that contains Dehalococcoides (DHC) bacteria, which is the only known bacteria that can fully dechlorinate PCE to non-toxic ethene. KB-1® Primer was used to prepare anaerobic water (dissolved oxygen less than 1 mg/L) to disperse electron donors and protect the DHC culture during the injection process at each well.

5.0 BIOREMEDIATION PROGRAM IMPLEMENTATION

Field activities associated with this bioremediation program were completed over a nine-day period from April 18 to 26, 2022. The specific field activities completed include equipment mobilization and demobilization, reagent preparation, reagent injections, and collection of pre-injection and post-injection groundwater parameters. These activities are described in detail in the following sections.

5.1 MOBILIZATION AND DEMOBILIZATION

Mobilization activities included transportation and staging of ISOTEC and subcontractor equipment, materials, instruments, personnel, and services required for implementing the treatment program at the site. Equipment was transported to the site in a box truck and then stored in an equipment staging area located in the southwest corner of the site. The equipment staging area and adjacent treatment area were designated as exclusion zones and were cordoned off with traffic cones and caution tape to prevent unauthorized access to these areas while injection activities were in progress. The exclusion zone remained in place for the duration of the bioremediation program.

Bulk chemicals needed to prepare injection solutions (9% EVO and anaerobic water) were delivered to the site in box trucks and off-loaded with a forklift. Bulk liquid chemicals (SRS-SD® and SRS-Z®) were stored within a portable secondary containment berm that was staged adjacent to the equipment staging area. Bulk powdered chemicals (sodium bicarbonate, calcium carbonate and Nutrimax) were stored on pallets and covered with heavy duty waterproof polyethylene sheeting. Copies of the safety data sheets (SDS) for each chemical utilized at the site were maintained on-site and available upon request.

Demobilization and site restoration activities included removal of all staged equipment, materials, instruments, personnel, generated waste, and services from the site at the end of the bioremediation program.

5.2 REAGENT PREPARATION

Reagents were prepared onsite using industry standard and commonly used chemical storage and handling equipment. Forklifts, pallet jacks, and drum dollies were used to transport bulk chemical components from designated storage areas to reagent mixing areas. Polyethylene mixing tanks and drums staged within portable secondary containment berms were used to prepare reagent solutions. Electric mixing motors were used to thoroughly mix and solubilize powdered components (sodium bicarbonate, calcium carbonate and Nutrimax). Liquid components were transferred to mixing drums and tanks via electric centrifugal pumps and air-powered diaphragm pumps. Dilution water for all prepared reagents was obtained from a city of Seattle fire hydrant located on Mercer Street. PES acquired a fire hydrant permit from Seattle Public Utilities prior to the start of the bioremediation program. While in use during

injection activities, the fire hydrant was equipped with an approved and certified backflow preventer assembly.

Properly calibrated site gauges and flow meters were used to precisely measure the volume of liquid components needed to prepare the required reagent concentrations. Similarly, calibrated digital scales and graduated measuring containers were used to accurately weigh powdered components. To the extent possible, reagents were prepared on an as-needed basis to minimize the volume of reagent stored onsite at any given time. A reagent mixing schematic is included as **Figure 1**.

5.3 INJECTION METHOD

Reagents were conveyed from mixing tanks to each injection point with air operated diaphragm pumps. Wellhead assemblies, with influent injection ports, ball valves, and pressure gauges, were tightly threaded to the injection well casing. Each wellhead assembly was connected to the discharge outlet on a diaphragm pump via reinforced PVC tubing. The diaphragm pump suction inlet was connected to a drop tube assembly via wire-wrap PVC tubing. After the drop tube assembly was inserted into a mixing tank and the pump was activated, reagent was dispensed through the tubing, pump, wellhead, and injection screen and into the target treatment zone.

In general, the injection sequence was similar for each injection point. First, a low volume of water (~10 to 20 gallons) was injected to leak test the tubing and injection equipment. This initial water flush was immediately followed by reagent. Once the target volume of reagent was injected a second water flush was initiated to displace all reagent from the tubing and injection equipment. This reagent-water flush sequence was repeated as many times as necessary until each required reagent was injected into the target treatment zone. An injection method schematic detailing the injection sequence is included as **Figure 2**.

Reagent volumes, flow rates, and injection pressures were monitored at regular intervals and recorded in a field log during the injection process at each injection point. Reagent volumes and flow rates were measured with battery-operated turbine flow meters/totalizers. Injection pressures were measured with pressure gauges attached to the wellhead assemblies.

5.4 AMENDMENT QUANTITIES AND INJECTION SEQUENCE

Subsurface injections progressed sequentially in two phases. Substrate loading was completed first followed by bioaugmentation. During the substrate loading phase, an aqueous solution comprised of carbon substrates, pH buffers, supplemental nutrients, and dilution water (collectively referred to as EVO injectate solution) was injected to establish anaerobic conditions within the treatment zone. Bioaugmentation followed with the injection of anaerobic water and DHC bacteria to accelerate the rate of CVOC degradation. Proposed injection quantities per well are presented in the table below.

Proposed Bioremediation Program Injection Quantities Per Well

EVO Injectate						Anaerobic Water		DHC
SRS-SD (gallons)	SRS-Z (gallons)	Nutrimax (pounds)	Sodium Bicarbonate (pounds)	Calcium Carbonate (pounds)	Dilution Water (gallons)	KB-1 Primer (bags)	Dilution Water (gallons)	KB-1 (liters)
80	75	35	85	80	845	0.2	50	2

ISOTEC attempted to inject EVO injectate, anaerobic water, and DHC bacteria sequentially at each injection well as follows:

- **Substrate Loading [**Injection of 1,000 gallons of EVO injectate]: EVO injections at each well progressed in 250-gallon batches to minimize localized mounding effects, reduce injection pressures, and prevent the formation of preferential pathways.
- **Bioaugmentation – Step 1 [**Injection of 25 gallons of anaerobic water]: Each batch of anaerobic water was prepared at least 2 hours prior to usage and was tested with a water quality meter to ensure that pH and ORP were within optimal ranges to protect the DHC culture during the injection process.
- **Bioaugmentation – Step 2 [**Injection of 2 liters of DHC culture]: DHC culture was shipped to the site in a pressurized stainless-steel vessel and stored in an ice-filled cooler. Nitrogen gas procured from a local vendor was used to transfer DHC culture from the pressurized vessel to injection tubing filled with anaerobic water during Step 1 of the bioaugmentation injection process.
- **Bioaugmentation – Step 3 [**Injection of 25 gallons of anaerobic water]: The second cycle of anaerobic water ensured that DHC culture was sufficiently dispersed through the well screen and into the treatment zone.

Substrate loading injections were completed from April 19 to 24, 2022. During this period, all injection wells, except IWS-07, received at least 1,000 gallons of EVO injectate. High injection pressures prevented injection at IWS-07, and the volume allocated to this well was distributed among three adjacent upgradient wells, IWS-02, IWS-06, and IWS-10.

Bioaugmentation at all wells was completed on April 25 following five days of carbon substrate injections. All wells, apart from IWS-07, received at least 2 liters of DHC culture. No DHC culture was injected into IWS-07. Consistent with injection of EVO solution, the volume of DHC culture allocated to IWS-07 was distributed among wells IWS-02, IWS-06, and IWS-10. Injection wells IWS-04, IWS-05, and IWS-08 each received an additional 1 liter of DHC culture to completely empty the steel vessel that contained the DHC culture (the keg from SiREM Laboratory contained 23 liters when 20 liters were ordered).

5.5 INJECTION ACTIVITIES

A total of 10,005 gallons of EVO injectate, 420 gallons of anaerobic water, and 23 liters of DHC culture were injected across the treatment area over the course of the bioremediation program. To mitigate temporary localized mounding affects and the formation of preferential pathways, the volume of diluted EVO injected at any given well during a single day was generally limited to 250 gallons. The highest volume injected at a well during a single day of injection activities was 630 gallons of EVO injectate at well IWS-06 on the final day of carbon substrate injections.

Groundwater fluctuations were observed at multiple treatment area monitoring wells during injection activities. An increase in groundwater elevation was observed at monitoring wells HMW-20IA and HMW-9IB on day 4 of the bioremediation program. Injection activities at nearby injection wells were briefly paused to collect groundwater samples from the affected monitoring wells. Groundwater collected from these wells was slightly turbid with a uniform gray coloring. Groundwater color was likely due to EVO injectate which had migrated from nearby injection wells. Following sample collection, HMW-20IA and HMW-9IB were sealed with PVC threaded plugs to prevent overflow of groundwater onto the ground surface.

Partial clogging of the well screen at IWS-06 was observed on the final day (April 24) of substrate loading injections. Clogging was likely due to ZVI particulates accumulating on the well screen. Three batches of EVO injectate were injected at IWS-06 on April 24. Batches of 250, 130, and 250 gallons were injected in the morning, midday, and late afternoon, respectively. Injection pressures ranged from 46 to 56 psi during the first batch injection. The pressure recorded at the start of the second batch was 70 psi, slightly higher than pressures observed during the first batch injection. After 130 gallons of EVO injectate had been injected during the second batch, an abrupt pressure increase from 70 psi to 88 psi was recorded. Following this pressure increase, flush water was injected until the pressure dropped to approximately 70 psi. The third batch injection commenced approximately 90 minutes after the water flush. This batch was injected at a static pressure of 70 psi. Bioaugmentation at IWS-06 was completed the following day. After the sequential injection of 5 gallons of anaerobic water, 3 liters of DHC culture and 15 gallons of anaerobic water, a pressure of 98 psi was observed, and no further injections were attempted at IWS-06.

Flow rates and injection pressures were recorded at regular intervals during daily injection activities at each well. Flow rates were maintained at less than 2.0 gallons per minute (gpm) to minimize injection pressures and the formation of preferential flow pathways. Except for IWS-07, flow rates ranged from approximately 1.5 to 1.7 gpm. A sufficient flow rate was not established during several injection attempts at IWS-07 due to high injection pressures. Flow rates of 0.4 and 0.6 gpm at a pressure of 98 psi were observed at IWS-07 during injection attempts on day 1 and day 3 of the bioremediation program. Following the day 3 injection attempt, ISOTEC recommended that the volume of EVO injectate allocated for IWS-07 be distributed to nearby upgradient wells. The

highest injection pressure observed at each of the nine wells utilized for injections ranged from 44 psi at IWS-02 to 92 psi at IWS-06. Reagent volumes, flow rates and injection pressures recorded at each well during the bioremediation program are presented in **Tables 1 and 2**.

5.6 REPORT PREPARATION

ISOTEC recorded all field notes including names of all on-site personnel, hours worked, information related to daily injection activities, pump pressures, health and safety instances/topics discussed, deliveries that occurred and any other pertinent information during each day of injections.

This Bioremediation Summary Report is being presented without review or discussion of any post-treatment monitoring data as it was not available at the time this report was prepared and submitted. Upon review of any post-treatment COC data provided to ISOTEC, we will assist PES in devising an updated injection plan, if necessary, for the site.

5.7 HEALTH AND SAFETY

A site-specific health and safety plan (HASP) was included under separate cover along with the site work plan prior to mobilizing to the site. A copy of the health and safety plan along with additional copies of the job safety analysis (JSA) and SDS were maintained on-site at all times during field operations. All members of the injection team have completed health and safety training consistent with the Occupational Safety and Health Act (Title 29 of the Code of Federal Regulations 1910.120) with current certificates. Daily health and safety tailgate meetings were held at ISOTEC's temporary staging area prior to start of field activities. Additional health and safety measures related to COVID-19 protocols were incorporated into the HASP and implemented by field crew members during the injection program.

Personal protective equipment (PPE) level for field activities were set as Modified Level D which included hi-visibility safety vests, steel toe work boots, chemical apron/Tyvek suits (during chemical preparation), hardhat with safety glasses, and gloves associated with the specific task being performed (primarily disposable nitrile gloves). Full face shields were worn while handling concentrated solutions of hazardous chemicals within the reagent mixing area. An eye was station and portable shower were available in the equipment staging area if needed in an emergency.

5.8 EMERGENCY SPILL AND FIRE CONTROL MEASURES

A contingency plan was developed to address the concerns associated with spills, fire or surface breakout of injected reagents. Additional concerns associated with spills, release or surfacing have been addressed in the HASP.

Each ISOTEC support truck was equipped with multiple emergency fire extinguishers of not less than a 20-B rating. At least one fire extinguisher was located within the vicinity

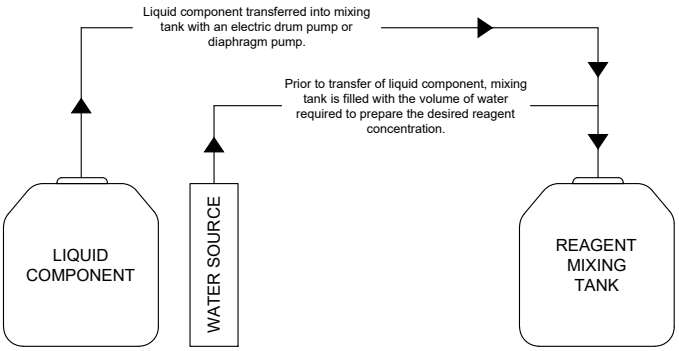
of the chemical storage/mixing area. Signs indicating the types of chemicals on-site were placed on the outside of box truck where the dry powder reagents were stored and locked every night. Access to water from the onsite water source was available if needed in an emergency to help extinguish any potential fires.

6.0 SUMMARY OF FIELD ACTIVITIES

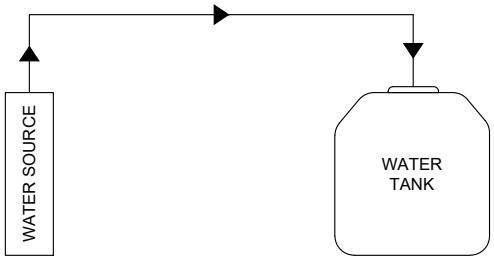
- One injection event consisting of 7 days of injection activities was completed by ISOTEC from April 19 – 25, 2022.
- Field activities completed by ISOTEC during the injection event included equipment mobilization and demobilization, chemical delivery and offload, reagent preparation, and reagent injections.
- Reagent injections were completed across an approximately 4,500 square foot treatment area that encompassed monitoring well HMW-9IB in the western half of the Seattle DOT Mercer Parcels Site.
- Reagents were delivered into the target zone through 9 injection wells installed at the site prior to the start of the bioremediation program. The wells were screened across the uppermost portion of the Intermediate B Zone water-bearing unit and spaced approximately 24 feet apart across the entire extent of the treatment area.
- In two monitoring wells (HMW-20IA and HMW-9IB), a hydraulic connection was observed during injection based on rising groundwater level. In addition, white/gray colored groundwater was observed in these two wells, which is indicative of the EVO and ZVI solution applied to the injection wells.
- Approximately 10,005 gallons of emulsified vegetable oil solution, 420 gallons of anaerobic water, and 23 liters of dechlorinating bacteria culture were injected during the bioremediation program.

FIGURES

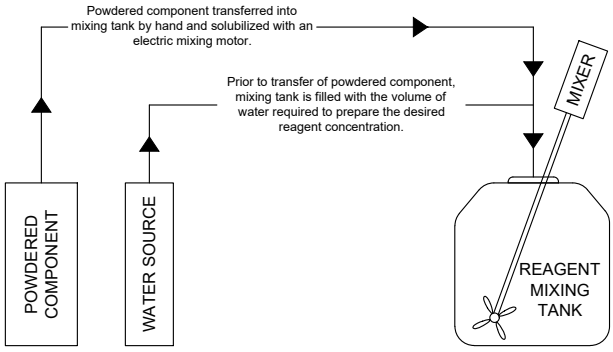
LIQUID COMPONENT MIXING PROCEDURE



WATER TANK PROCEDURES



POWDERED COMPONENT MIXING PROCEDURE



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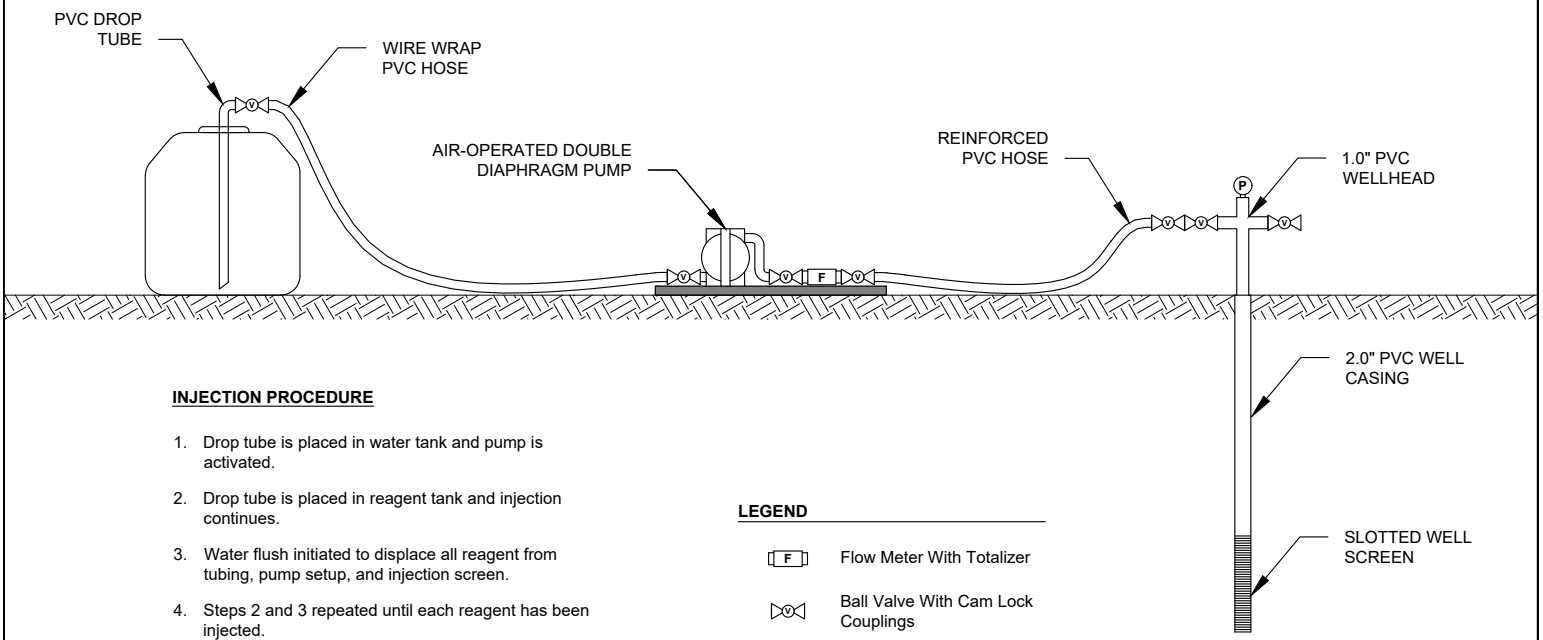
REAGENT MIXING SCHEMATIC
BIOREMEDIATION PROGRAM
Seattle DOT Mercer Parcels
Former American Linen Facility
Seattle, Washington

DRAWN BY: KH	DATE: 7/1/2022	FIGURE 1
CHECKED BY: PK	PROJECT NO: 901312	

REAGENT INJECTION DIAGRAM



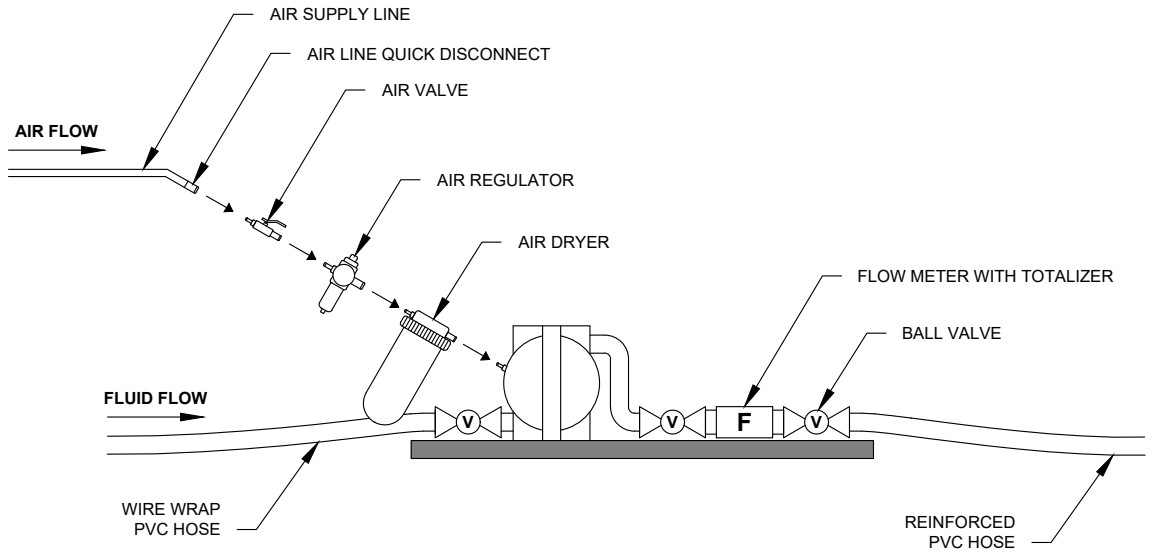
INJECTION PROCEDURE

1. Drop tube is placed in water tank and pump is activated.
2. Drop tube is placed in reagent tank and injection continues.
3. Water flush initiated to displace all reagent from tubing, pump setup, and injection screen.
4. Steps 2 and 3 repeated until each reagent has been injected.

LEGEND

- F — Flow Meter With Totalizer
- V — Ball Valve With Cam Lock Couplings
- P — Pressure Gauge

INJECTION PUMP INSTALLATION



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INJECTION METHOD SCHEMATIC
BIOREMEDIATION PROGRAM
Seattle DOT Mercer Parcels
Former American Linen Facility
Seattle, Washington

DRAWN BY: KH	DATE: 7/1/2022	FIGURE 2
CHECKED BY: PK	PROJECT NO: 901312	

TABLES

Table 1
Injection Summary
Seattle DOT Mercer Parcels
Former American Linen Facility
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
04/19/22	IWS-01	13:38	15:49	EVOZVI	9%	250	1.9	42	
04/19/22	IWS-10	13:38	15:52	EVOZVI	9%	250	1.9	68	
04/19/22	IWS-03	13:38	15:52	EVOZVI	9%	250	1.9	56	
04/19/22	IWS-09	16:01	16:05	WTR	100%	5	1.3	22	
04/19/22	IWS-06	16:01	16:05	WTR	100%	5	1.3	92	
04/19/22	IWS-07	16:01	16:10	WTR	100%	5	0.6	98	
04/20/22	IWS-09	8:02	10:37	EVOZVI	9%	250	1.6	74	
04/20/22	IWS-06	8:02	10:15	EVOZVI	9%	250	1.9	66	
04/20/22	IWS-02	8:02	10:23	EVOZVI	9%	250	1.8	82	
04/20/22	IWS-01	12:20	15:26	EVOZVI	9%	250	1.3	44	
04/20/22	IWS-10	12:20	15:38	EVOZVI	9%	250	1.3	58	
04/20/22	IWS-03	12:20	15:35	EVOZVI	9%	250	1.3	64	
04/20/22	IWS-08	16:06	17:05	EVOZVI	9%	80	1.4	68	
04/20/22	IWS-04	16:06	17:05	EVOZVI	9%	70	1.2	76	
04/20/22	IWS-05	16:06	17:05	EVOZVI	9%	50	0.8	86	
04/21/22	IWS-08	7:48	9:49	EVOZVI	9%	170	1.4	64	
04/21/22	IWS-04	7:48	10:12	EVOZVI	9%	180	1.3	52	
04/21/22	IWS-05	7:48	10:19	EVOZVI	9%	200	1.3	80	
04/21/22	IWS-09	11:13	14:06	EVOZVI	9%	250	1.4	60	
04/21/22	IWS-07	11:13	11:27	EVOZVI	9%	5	0.4	98	high pressure; additional volume injected at IWS-02, IWS-06, and IWS-10
04/21/22	IWS-02	11:13	14:06	EVOZVI	9%	250	1.4	56	
04/21/22	IWS-06	11:27	14:06	EVOZVI	9%	250	1.6	66	
04/21/22	IWS-08	14:29	17:13	EVOZVI	9%	250	1.5	68	
04/21/22	IWS-04	14:29	17:00	EVOZVI	9%	250	1.7	54	
04/21/22	IWS-05	14:29	17:13	EVOZVI	9%	250	1.5	68	
04/22/22	IWS-01	7:51	10:16	EVOZVI	9%	250	1.7	42	
04/22/22	IWS-10	7:51	10:05	EVOZVI	9%	250	1.9	64	
04/22/22	IWS-03	7:51	9:58	EVOZVI	9%	250	2.0	68	
04/22/22	IWS-09	10:39	13:56	EVOZVI	9%	250	1.3	60	
04/22/22	IWS-06	10:39	12:07	EVOZVI	9%	120	1.4	66	injection stopped due to elevated groundwater at HMW-20IA
04/22/22	IWS-02	10:39	12:07	EVOZVI	9%	120	1.4	50	injection stopped due to elevated groundwater at HMW-20IA
04/22/22	IWS-08	12:29	15:49	EVOZVI	9%	250	1.3	66	

Table 1
Injection Summary
Seattle DOT Mercer Parcels
Former American Linen Facility
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
04/22/22	IWS-04	12:29	16:36	EVOZVI	9%	250	1.0	48	injection paused from 1442 to 1532 due to elevated groundwater at HMW-9IB
04/22/22	IWS-05	14:26	16:27	EVOZVI	9%	125	1.0	62	injection paused from 1442 to 1532 due to elevated groundwater at HMW-9IB
04/23/22	IWS-01	8:29	10:50	EVOZVI	9%	250	1.8	32	
04/23/22	IWS-10	8:24	10:40	EVOZVI	9%	250	1.8	62	
04/23/22	IWS-03	8:24	10:45	EVOZVI	9%	250	1.8	56	
04/23/22	IWS-09	11:18	14:07	EVOZVI	9%	250	1.5	48	
04/23/22	IWS-06	11:18	14:08	EVOZVI	9%	250	1.5	62	
04/23/22	IWS-02	11:18	14:06	EVOZVI	9%	250	1.5	48	
04/23/22	IWS-08	14:44	16:44	EVOZVI	9%	225	1.9	64	
04/23/22	IWS-04	14:44	16:44	EVOZVI	9%	200	1.7	50	
04/23/22	IWS-05	14:44	16:44	EVOZVI	9%	200	1.7	68	
04/24/22	IWS-08	7:44	8:01	EVOZVI	9%	25	1.5	50	
04/24/22	IWS-04	7:44	8:04	EVOZVI	9%	50	2.5	40	
04/24/22	IWS-05	7:44	8:07	EVOZVI	9%	50	2.2	68	
04/24/22	IWS-10	8:42	11:10	EVOZVI	9%	250	1.7	60	
04/24/22	IWS-06	8:42	10:48	EVOZVI	9%	250	2.0	56	
04/24/22	IWS-02	8:42	10:56	EVOZVI	9%	250	1.9	46	
04/24/22	IWS-06	10:57	12:11	EVOZVI	9%	130	1.8	88	high pressure (88 psi) after 130 gallons injected due to possible clogged screen; pressure dropped during water flush
04/24/22	IWS-02	10:57	12:11	EVOZVI	9%	130	1.8	56	
04/24/22	IWS-06	13:34	16:15	EVOZVI	9%	250	1.6	70	initial pressure higher than previous attempts at this well due to possible partial clogging of well screen
04/24/22	IWS-05	13:40	14:57	EVOZVI	9%	125	1.6	54	
04/25/22	IWS-01	11:05	11:21	AW	100%	25	1.6	24	
04/25/22	IWS-01	11:33	11:37	DHC	100%	2			
04/25/22	IWS-01	11:42	11:57	AW	100%	25	1.7	30	
04/25/22	IWS-10	11:05	11:22	AW	100%	25	1.5	46	
04/25/22	IWS-10	11:25	11:29	DHC	100%	2.5			
04/25/22	IWS-10	11:42	12:00	AW	100%	25	1.4	44	
04/25/22	IWS-03	11:05	11:22	AW	100%	25	1.5	38	
04/25/22	IWS-03	11:29	11:33	DHC	100%	2			

Table 1
Injection Summary
Seattle DOT Mercer Parcels
Former American Linen Facility
700 Dexter Avenue North
Seattle, Washington

Injection Date	Location ID	Start Time	Stop Time	Reagent	Concentration	Volume	Flow Rate	Maximum Pressure	Notes
04/25/22	IWS-03	11:42	11:57	AW	100%	25	1.7	68	
04/25/22	IWS-09	12:31	12:45	AW	100%	25	1.8	38	
04/25/22	IWS-09	12:51	12:55	DHC	100%	2			
04/25/22	IWS-09	12:55	13:13	AW	100%	25	1.4	38	
04/25/22	IWS-06	12:31	12:36	AW	100%	5	1.0	74	
04/25/22	IWS-06	12:37	12:41	DHC	100%	3			
04/25/22	IWS-06	12:41	12:57	AW	100%	15	0.9	88	98 psi after 15 gal; unable to inject after 15 gal due to possible clogged screen
04/25/22	IWS-02	12:31	12:45	AW	100%	25	1.8		
04/25/22	IWS-02	12:47	12:51	DHC	100%	2.5			
04/25/22	IWS-02	12:55	13:13	AW	100%	25	1.4		
04/25/22	IWS-08	13:30	13:46	AW	100%	25	1.6		
04/25/22	IWS-08	13:47	13:50	DHC	100%	3			
04/25/22	IWS-08	14:03	14:18	AW	100%	25	1.7		
04/25/22	IWS-04	13:30	13:46	AW	100%	25	1.6		
04/25/22	IWS-04	13:50	13:53	DHC	100%	3			
04/25/22	IWS-04	14:03	14:21	AW	100%	25	1.4		
04/25/22	IWS-05	13:30	13:46	AW	100%	25	1.6		
04/25/22	IWS-05	13:53	13:57	DHC	100%	3			
04/25/22	IWS-05	14:03	14:21	AW	100%	25	1.4		

Notes

EVOZVI = emulsified solution of SRS-SD, SRS-Z, sodium bicarbonate, calcium carbonate, Nutrimax and water
AW = anaerobic water; prepared with KB-1 Primer and municipal water
DHC = KB-1 Dehalococcoides culture
WTR = flush water
SRS-SD = small droplet emulsified vegetable oil; liquid component
SRS-Z = small-droplet emulsified vegetable oil with zero valent iron; liquid component
Sodium bicarbonate = pH buffer; solid component
Calcium carbonate = pH buffer; solid component
Nutrimax = nitrogen and phosphorous nutrients with sulfate; solid component
KB-1 Primer = oxygen scavenger; solid component
KB-1 = Dehalococcoides culture; liquid component
ft = feet
bgs = below ground surface

Proposed Volume and Injection Sequence At Each Injection Well

Step 1 = 1,000 gallons of 9% EVOZVI
Step 2 = 25 gallons of AW
Step 3 = 2 liters of DHC
Step 4 = 25 gallons of AW

Table 2
Injection Well Reagent Totals
Seattle DOT Mercer Parcels
Former American Linen Facility
700 Dexter Avenue North
Seattle, Washington

Injection Point ID	EVOZVI Injected (gal)	AW Injected (gal)	DHC Injected (l)	SRS-SD Used (gal)	SRS-Z Used (gal)	Nutrimax Used (lb)	Sodium Bicarbonate Used (lb)	Calcium Carbonate Used (lb)	KB-1 Primer Used (bag)	Average Flow Rate (gpm)	Maximum Pressure (psi)	Notes
IWS-01	1000	50	2.0	80	75	35	85	80	0.2	1.7	44	
IWS-02	1250	50	2.5	100	94	44	106	100	0.2	1.6	82	additional volume injected due to high pressure at IWS-07
IWS-03	1000	50	2.0	80	75	35	85	80	0.2	1.7	68	
IWS-04	1000	50	3.0	80	75	35	85	80	0.2	1.5	76	
IWS-05	1000	50	3.0	80	75	35	85	80	0.2	1.5	86	
IWS-06	1500	20	3.0	120	113	53	128	120	0.1	1.5	92	additional volume injected due to high pressure at IWS-07
IWS-07	5	0	0.0	0	0	0	0	0	0.0	0.5	98	high pressure; additional volume injected at IWS-02, IWS-06, and IWS-10
IWS-08	1000	50	3.0	80	75	35	85	80	0.2	1.5	68	
IWS-09	1000	50	2.0	80	75	35	85	80	0.2	1.5	74	
IWS-10	1250	50	2.5	100	94	44	106	100	0.2	1.6	68	additional volume injected due to high pressure at IWS-07
Total	**10,005**	**420**	**23.0**	**800**	**750**	**350**	**850**	**800**	**2**			

Notes

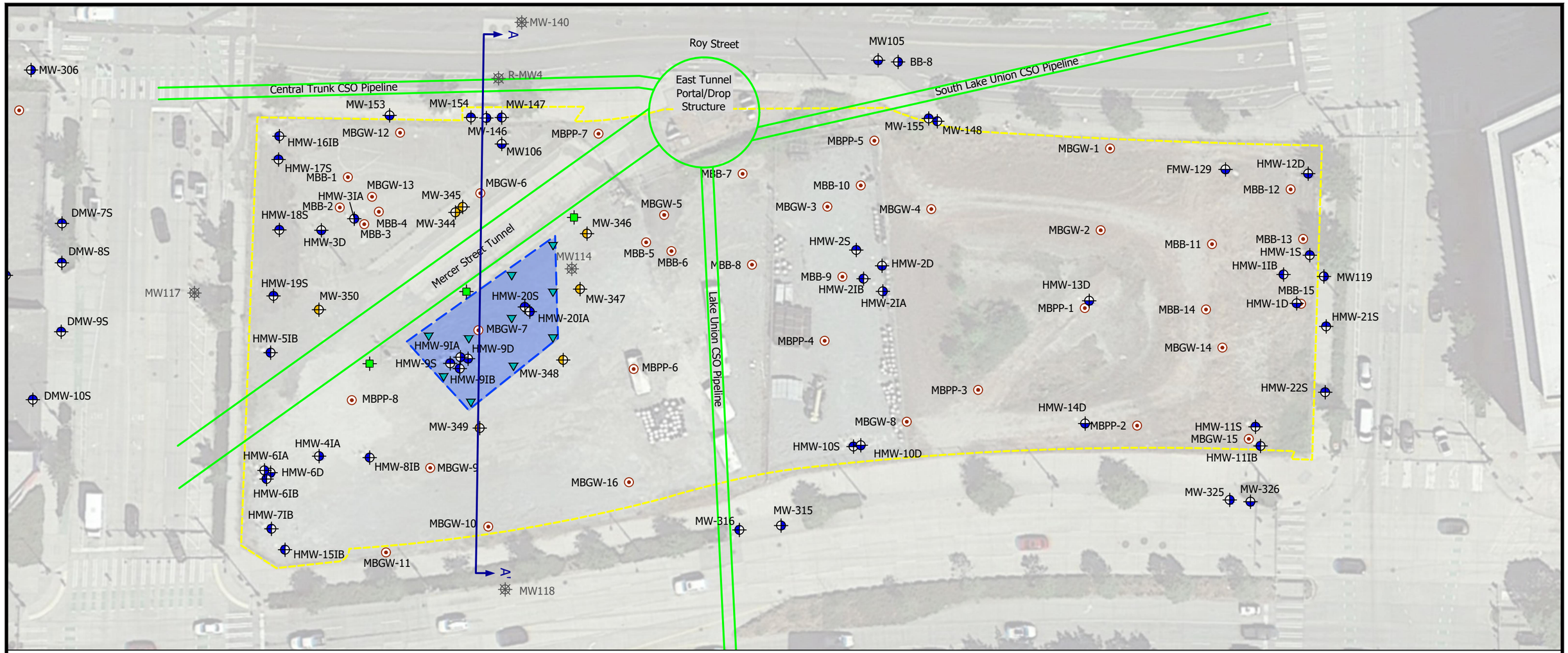
EVOZVI = emulsified solution of SRS-SD, SRS-Z, sodium bicarbonate, calcium carbonate, Nutrimax and water
AW = anaerobic water; prepared with KB-1 Primer and municipal water
DHC = KB-1 Dehalococcoides culture
WTR = flush water
SRS-SD = small droplet emulsified vegetable oil; liquid component
SRS-Z = small-droplet emulsified vegetable oil with zero valent iron; liquid component
Sodium bicarbonate = pH buffer; solid component
Calcium carbonate = pH buffer; solid component
Nutrimax = nitrogen and phosphorous nutrients with sulfate; solid component
KB-1 Primer = oxygen scavenger; solid component
KB-1 = Dehalococcoides culture; liquid component
ft = feet
bgs = below ground surface

Proposed Volume and Injection Sequence At Each Injection Well

Step 1 = 1,000 gallons of 9% EVOZVI
Step 2 = 25 gallons of AW
Step 3 = 2 liters of DHC
Step 4 = 25 gallons of AW

gal = gallons
l = liters
lb = pounds

ATTACHMENT 1 – SITE MAPS



Explanation

- Approximate SDOT Mercer Parcels Property Boundary
- Sanitary Sewer Pipe
- MW-310 — Shallow Zone Monitoring Well
- MW116 — Intermediate A Zone Monitoring Well
- W-MW-02 — Intermediate B Zone Monitoring Well
- MW105 — Deep Zone Monitoring Well
- MW-140 — Decommissioned Monitoring Well
- MW-344 — 2021 Intermediate A Monitoring Well
- MW-345 — 2021 Intermediate B Monitoring Well
- Soil Boring
- Potential Interim Action Area
- Preliminary location of dewatering wells located adjacent to Mercer Street Tunnel
- Approximate location of interim action injection well
- A A' — Geologic Cross Section Location (Arrows show direction of view) Cross-Section shown on Figure 6

Note:
All investigation locations on the Seattle DOT Mercer Parcels shown for clarity.

N

0 50

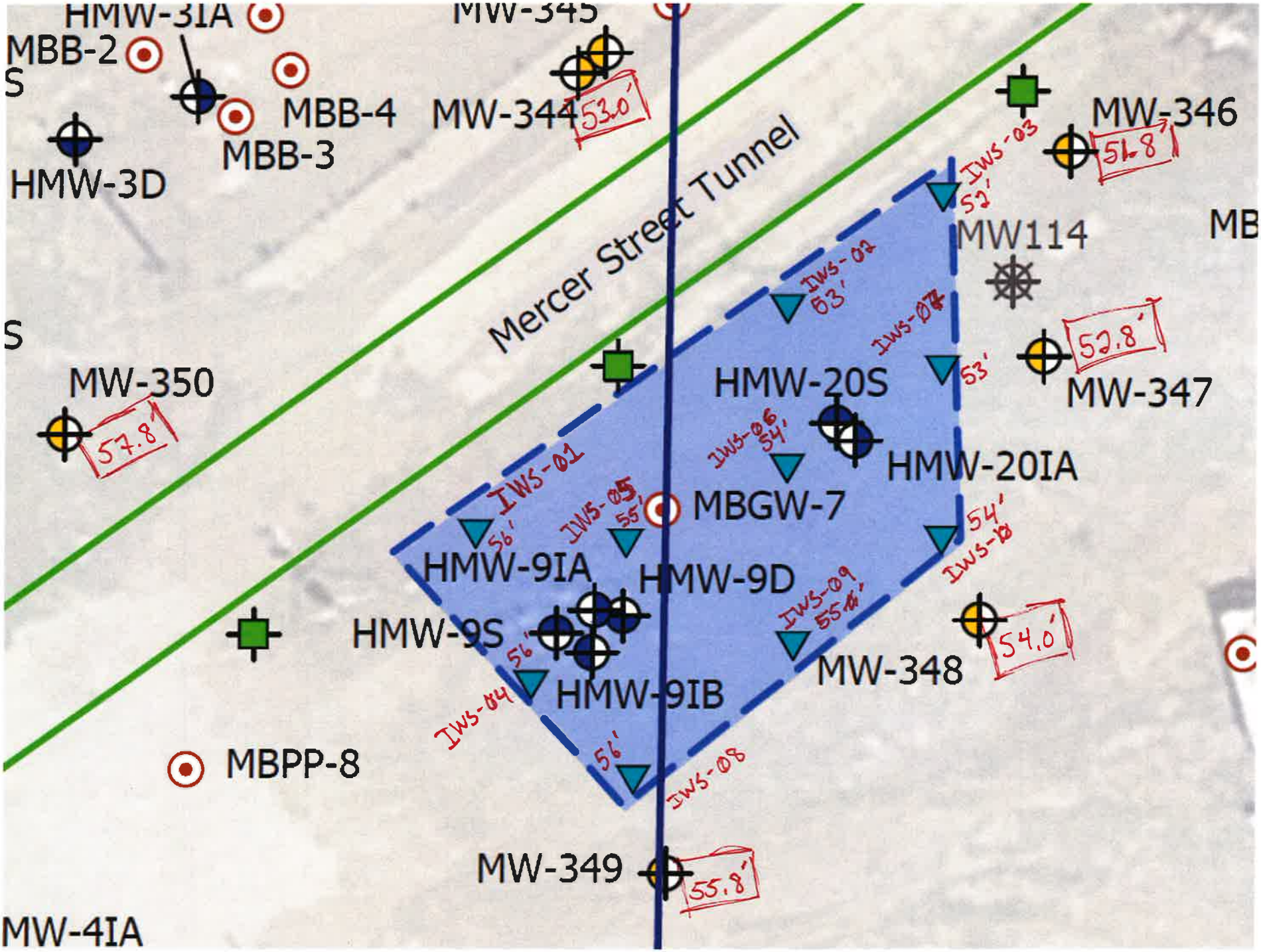
SCALE IN FEET

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Proposed Seattle DOT Mercer Parcels Interim Action Area
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North
Seattle, Washington

FIGURE
5

1413.001.02.501.09	14130010250109_IAWP_1-6	BLO	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE


HMW-31A
MBB-2
S
MBB-4
MBB-3
HMW-3D
MW-345
MW-344
53.0'
MW-346
54.8'
Mercer Street Tunnel
IWS-03
53'
MW114
MB
S
IWS-02
53'
IWS-07
53'
52.8'
MW-347
MW-350
57.8'
HMW-20S
HMW-20IA
IWS-06
54'
IWS-01
56'
IWS-05
55'
MBGW-7
54'
IWS-10
HMW-9IA
HMW-9D
IWS-09
55'
HMW-9S
56'
54.0'
MW-348
IWS-04
HMW-9IB
MBPP-8
56'
IWS-08
MW-349
55.8'
MW-4IA

APPENDIX C

PERMITTING DOCUMENTATION

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

December 21, 2017

Mr. John Moshy
BMR Dexter LLC
201 Elliott Avenue West, Suite 150
Seattle, WA 98109

RE: Registration with the Underground Injection Control (UIC) Program, American Linen Supply, 700 Dexter Avenue N., Seattle, WA

Dear Mr. Moshy:

This letter is to acknowledge receipt of your registration form received December 13, 2017 to register the above-mentioned site with the UIC program. The UIC wells are rule authorized and do not need a State Waste Discharge Permit to operate. The UIC site number is 33782.

The remediation work at American Linen Supply is managed under a legal agreement Agreed Order No. DE14302 with Ecology's Model Toxic Control Program (MTCA). Remediation projects under a MTCA legal agreement have to meet the substantive requirements of other laws which ground water protection is one. Meeting the substantive requirements will fulfill the ground water protection requirement of the UIC Program.

Please call me at (360) 407-6143 if you have any questions. Additional information can also be found at our website http://www.ecy.wa.gov/programs/wq/grndwtr/uic/index.html.

Sincerely,

Mary Shaleen-Hansen
UIC Coordinator
Water Quality Program

Cc: Daniel Balbiani, PES Environmental, Inc.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

April 14, 2022

John Moshy
BMR Dexter LLC
201 Elliott Avenue W, Suite 150
Seattle, WA 98109
Sent via email only: John.Moshy@biomedrealty.com

RE: UIC Site 33782 – Well Registration and Authorization with the Underground Injection Control (UIC) Program, American Linen Supply (Site), 700 Dexter Ave N. Seattle, WA

Dear John Moshy:

This letter is to acknowledge receipt of your application to register the UIC wells with the Department of Ecology (Ecology) UIC Program at the aforementioned Site.

The Site is a former dry cleaner operation and is under Model Toxics Control Act (MTCA)[1] Agreed Order No. DE 14302. The Facility Site Number is 3573 and previous remedial investigations have confirmed the Site groundwater has non-halogenated organics, volatile organic compounds, and petroleum contamination above the applicable MTCA Groundwater Method A Cleanup Levels. The Site also has non-halogenated organics soil contamination above the applicable MTCA Method A Soil Cleanup Levels.

PES Environmental Inc. (PES) submitted original UIC registration associated with the Site in December 2017 and the UIC wells were rule authorized. PES submitted an amendment to the registration in August 2018 and included an additional 22 UIC wells. In September 2020, PES submitted a second amendment to the registration and included an additional three dual completion wells in the right-of-way surrounding the property. These UIC wells have not been added to the UIC registration.

PES Investigation activities conducted since the original UIC registration and subsequent amendments have identified an additional area on the adjacent property to the south that requires treatment. At Ecology's request, PES is preparing this area for additional remedial injections prior to the property being redeveloped area and being inaccessible later this year.

[1] Regulation 173-340 WAC, Statute 70.105D RCW.

All work for this interim action is described in the PES prepared Interim Action Work Plan (IAWP) Addendum No. 2, dated February 22, 2022 as part of the Agreed Order for the American Linen Site.

The interim action consists of:

- Installation of 10 injection wells.
- A single injection event.
- Injecting approximately 1,060 gallons of a 9.5 percent emulsified vegetable oil (EVO) EVO solution[2] into each well, approximately 80 feet below ground surface.
- Groundwater monitoring per the IAWP.

The IAWP details the methods to be used to bioremediate and monitor chlorinated volatile organic compounds in the Site groundwater.

Conditional Rule Authorization - Conditions of Use

The Site is ***conditionally-rule authorized*** for this one-time event as long as the following conditions of use continue to be met by the owner/operator. The two UIC Program requirements for rule authorization are:

1. Registration of UIC wells (prior to use), and
2. The UIC well must meet the nonendangerment standard.

In addition, the other Site-specific UIC Program requirements for conditionally-rule authorization include:

- The groundwater analytical results from the IAWP designated plume boundary monitoring wells should meet the applicable MTCA groundwater cleanup levels. No migration or expansion of the groundwater contaminant plume due to these injections beyond the current contaminant boundaries is authorized.
- The one-time injection mixture of approximately 1,060 gallons of a 9.5 percent emulsified vegetable oil (EVO) EVO solution may not be altered from what was approved in the IAWP without the approval of the Ecology Site cleanup manager.
- Ecology has not approved Site groundwater for use to mix with any remediation products as part of the injectate solution into the subsurface, as applicable.
- The injections should not cause a further degradation to groundwater quality criteria at the down-gradient monitoring points per the state or federal applicable criteria[3]. If such

[2] The EVO solution is comprised of the products (SRS-SD®) and dehalococcoides bioaugmentation culture plus zero valent iron (ZVI; injected using SRS-Z®), and a supplemental nutrient/additive blend will be added to increase short and long-term treatment rates.

[3] Cleanup actions that are not supervised or directed by WA State Department of Ecology under the Model Toxics Control Act (MTCA), chapter 70.105D RCW or approved by the United States Environmental Protection Agency under the Comprehensive Environmental Response Compensation and Liability Act, 42 U.S.C. 9601 et seq. are required to meet the Groundwater Quality Standards, WAC 173-200.

groundwater degradation occurs, Ecology shall be notified no later than 24-hours from the degradation discovery.

- The UIC well owner is responsible for adding any additional injection points/injection wells and associated information not reported or not already registered in the original UIC registration. **ALL** UIC wells must be listed in the UIC registration.
- The UIC injection start date is planned for mid-April 2022.

The Site will continue to be **conditionally rule-authorized** *when* the Groundwater Quality Standards have been met and the above items have been completed. Failure to capture any of the performance data listed in the IAWP or violate the applicable cleanup standards may result in a denial or termination of a UIC registration.

The injected compounds are intended to improve groundwater quality. There are inherent environmental risks associated with injecting compounds into groundwater. It is incumbent upon the owner and their representative to carefully characterize, manage, and monitor the site surface and subsurface conditions to minimize risk and prevent unforeseen degradation of groundwater quality and other environmental risks. Mobilized metals or other substances, injected chemicals, or hazardous bi-products, are not allowed to migrate beyond the Site.

The Site owner is responsible to retain all plans, modeling, monitoring results, interim, and final reports. Upon Ecology request, the owner shall provide these documents to the UIC Program.

At any time, Ecology may require you to apply for and obtain a State Waste Discharge Permit for the continued use of these compounds. If required, you may obtain a formal approval for this project through the Ecology's State Waste Discharge Permit Program or the Toxics Cleanup Program.

Please contact Eugene Radcliff at uicwells@ecy.wa.gov if you have any questions. You can find additional information on the UIC Program at our website:

https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Underground-injection-control-program

Sincerely,

Eugene Radcliff

Eugene Radcliff, LG, LHG
Statewide UIC Program Coordinator
Water Quality Program

cc: John Funderburk, Urban Environmental Partners llc, johnf@uepconsutling.com
Tena Seeds, Department of Ecology, tsee461@ecy.wa.gov

From:	Radcliff, Eugene (ECY)
To:	Brian O"Neal
Cc:	Seeds, Tena (ECY); John Moshy; brad.rock@biomedrealty.com; Drew Graham; Daniel Balbiani
Subject:	RE: American Linen Supply - Dexter Ave Site - Amendment to UIC Registration #33782
Date:	Thursday, October 13, 2022 11:45:26 AM

Hey Brian:

Thank you again for providing this documentation. I have added your work plan to the UIC registration, noted Ecology TCPs notification and the UIC concurrence for the additional injections per the "CONTINGENT ACTION ADDENDUM INJECTION APPROACH,
AMERICAN LINEN SUPPLY CO DEXTER AVENUE SITE, AGREED ORDER NO. DE 14302 dated September 29, 2022 with Injection planned for November 7, 2022.

Regards

Eugene Radcliff, LG, LHG
Statewide UIC Coordinator
Water Quality Program
Cell: (360) 688-3586

From: Brian O'Neal <Brian.O'Neal@nv5.com>
Sent: Thursday, October 13, 2022 11:24 AM
To: Radcliff, Eugene (ECY) <erad461@ECY.WA.GOV>
Cc: Seeds, Tena (ECY) <TSEE461@ECY.WA.GOV>; John Moshy <john.moshy@biomedrealty.com>; brad.rock@biomedrealty.com; Drew Graham <dgraham@oacsvcs.com>; Daniel Balbiani <Daniel.Balbiani@nv5.com>
Subject: RE: American Linen Supply - Dexter Ave Site - Amendment to UIC Registration #33782

Eugene –

Just following up on my e-mail from a couple weeks ago regarding the planned injections at the American Linen Supply – Dexter Ave Site and confirming that you have received the UIC registration information. The injection subcontractor is mobilizing on November 7th and currently injections are schedule to begin on November 9th. Also – you can reach out to Tena Seeds (Ecology lead for this project) at her office at (206) 594-0089 or on her mobile phone at (425) 457-3143. Tena has reviewed the proposed injection approach we sent out a few weeks ago and did not have any questions or comments (see attached e-mail).

Thanks, and let me know if there any questions or you need additional information.

Brian O'Neal, P.E. | Principal Engineer | **PES Environmental, an NV5 Company**
2101 Fourth Avenue, Suite 1310 | Seattle, WA 98121 | D: 206.688.0319 | P: 206.529.3980 | C: 425.241.2627

From: Brian O'Neal
Sent: Thursday, September 29, 2022 3:59 PM
To: Erad461@ecy.wa.gov
Cc: Seeds, Tena (ECY) <TSEE461@ECY.WA.GOV>; John Moshy <john.moshy@biomedrealty.com>; brad.rock@biomedrealty.com; Drew Graham <dgraham@oacsvcs.com>; Daniel Balbiani <Daniel.Balbiani@nv5.com>; Bill Haldeman <Bill.Haldeman@nv5.com>
Subject: American Linen Supple - Dexter Ave Site - Amendment to UIC Registration #33782

Eugene –

On behalf of BMR Dexter LLC (BMRD), PES Environmental recently submitted to information to amend the Underground Injection Control (UIC) Well Registration for Class V injection wells for the American Linen Supply - Co Dexter Ave Site (American Linen Site). We received an acknowledgement of this submittal in the attached e-mail dated September 20, 2022. Cleanup work at the American Linen Site is being conducted pursuant to Agreed Order No. DE 14302 ("AO") between the State of Washington Department of Ecology ("Ecology") and BMRD. Ms. Tena Seeds is the Ecology lead for this AO, and is copied on this e-mail and can be reached by phone in the office at (206) 594-0089 or on her mobile phone at (425) 457-3143. The proposed injection event covered by this recent submittal is described in the attached letter we just sent to Tena, but in general consists of injecting emulsified vegetable oil (EVO) and other amendments into 63 wells that were installed and completed in the building foundation consistent with Ecology-approved work plans. These injections are currently scheduled to begin on or about November 7, 2022.

If you need any additional information to amend this UIC registration, please let me know as soon as possible, and feel free to reach out to Ms. Seeds directly if you have questions regarding the American Linen Site and the work being conducted under the Agreed Order.

Brian O'Neal, P.E. | Principal Engineer | **PES Environmental, an NV5 Company**
2101 Fourth Avenue, Suite 1310 | Seattle, WA 98121 | D: 206.688.0319 | P: 206.529.3980 | C: 425.241.2627

King County
Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
201 South Jackson Street, Suite 513
Seattle, WA 98104-3855
206-477-5300 Fax 206-263-3001
TTY Relay: 711

January 4, 2019

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

John Moshy
BMR - Dexter LLC
201 Elliott Ave W Suite 150
Seattle,WA 98119

Issuance of Wastewater Discharge Authorization No. 4482-01 to BMR - Dexter LLC - 700 Dexter Project

Dear Mr. Moshy:

The King County Industrial Waste Program (KCIW) has reviewed your application to discharge construction dewatering to the sewer system from the BMR - Dexter LLC - 700 Dexter construction project located at 700 Dexter Ave N, Seattle, Washington, and has issued the enclosed Major Discharge Authorization.

This authorization permits you to discharge limited amounts of industrial wastewater into King County's sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making these changes.

King County Code 28.84 authorizes a fee for each Major Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a Major Discharge Authorization is $3000. King County will send you an invoice for this amount.

If you have any questions about this discharge authorization or your wastewater discharge, please call me at 206-477-5457 or email me at dana.heinz@kingcounty.gov. You may also wish to visit our program's Internet pages at: www.kingcounty.gov/industrialwaste.

Thank you for helping support our mission to protect public health and enhance the environment.

Sincerely,

Dana Heinz
Compliance Investigator

Enclosures

cc: Jim Mahady, Seattle Public Utilities
SPU_Construction_Dewatering@seattle.gov

King County

MAJOR DISCHARGE AUTHORIZATION
King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855

NUMBER 4482-01
for

BMR - Dexter LLC - 700 Dexter Project

Site address: 700 Dexter Ave N
Seattle, Washington

Mailing address: 201 Elliott Ave W Suite 150
Seattle,WA 98119

Phone: 858-829-7709

Emergency (24-hour) phone: 206-391-6788

Industry type: Construction Dewatering

Discharge to: West Point Treatment Plant

*Note: This authorization is valid only for the specific discharges shown below:

Discharge process: Wastewater generated by construction dewatering operation

Effective date: March 1, 2018
Expiration date: September 30, 2021

DESCRIPTION OF SAMPLE SITES AND DISCHARGE VOLUMES

Sample Site No.	Description	Maximum Industrial Daily Discharge Volume (gpd)	Maximum Discharge Rate (gpm)
IW1422A	Sample tap after treatment system	76,000	65

Permission is hereby granted to discharge industrial wastewater from the above-identified site into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization, please call Industrial Waste Compliance Investigator Dana Heinz at 206-477-5457.

24-HOUR EMERGENCY NOTIFICATION

West Point Treatment Plant: 206-263-3801
Washington State Department of Ecology: 425-649-7000

SPECIAL CONDITIONS

A. In accordance with Seattle Public Utilities (SPU) requirements the discharge point will be an existing side sewer or as otherwise approved by SPU personnel.

B. Discharge to the sanitary sewer **shall not** begin until KCIW has conducted a preoperative inspection of the pretreatment facilities and has sent written notification (email is sufficient) to the permittee that discharges may begin.

C. Prior to commencing discharge to the sewer, the permittee must submit a list of BMR - Dexter LLC 700 Dexter Project and contractor personnel responsible for dewatering activities, including operation and maintenance of the wastewater treatment system and monitoring of the discharge to the sanitary sewer. The list shall include the site contacts' name, title, company, and phone numbers (office and cell).

D. Discharge to the sanitary sewer is approved only **until a new public storm drain (PSD) is installed**. Once the installation of the PSD is complete, all site dewatering, stormwater and groundwater will be discharged to surface waters through the PSD. After the PSD installation completion date, any further discharge to the sanitary sewer would only be used as a **relief only** option if water quality limits for discharge to the storm system cannot be met due to temporary failure of the treatment system. For these circumstances, KCIW will permit the discharge of construction dewatering to the sanitary sewer.

E. **Relief Discharge Authorization for National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit Holders**

1. The following conditions apply to construction projects that have NPDES General Construction Stormwater permits issued by the Washington State Department of Ecology to send construction stormwater and dewatering waters to surface waters and have failed to meet NPDES requirements after implementing BMPs and treatment and therefore, have requested relief to discharge to the sanitary sewer. This relief option allows discharge of stormwater or groundwater to the sanitary sewer for unanticipated short duration events to prevent degradation of receiving waters.

2. To use relief option, BMR-Dexter LLC must comply with the following conditions:

   a. By no later than **February 15, 2019,** BMR-Dexter LLC shall submit a statement from a professional engineer indicating that the best management practices and treatment system are designed and installed to ensure compliance with the NPDES construction stormwater permit and administrative order. The statement shall also indicate the treatment system would also comply with King County discharge requirements during relief period.

   b. BMR-Dexter LLC must not use the relief option to compensate for an inability to segregate process wastewater from uncontaminated stormwater, or the lack of an appropriate operation and maintenance program that results in inadequate treatment.

c. KCIW reserves the right to require BMR-Dexter LLC additional technical documentation for repeated relief requests.

d. Relief period is for a maximum of 14 days.

e. BMR-Dexter LLC must immediately notify the KCIW at 206-477-5300 by phone during normal business hours, or by email to info.kciw@kingcounty.gov and provide a report to KCIW in writing within five calendar days from the beginning of the relief discharge to sewer. The report must explain the reason and cause for the discharge, provide a date the relief discharge will cease, and describe corrective actions to prevent future recurrences.

f. If BMR-Dexter LLC needs relief for more than 14 days it must provide clear justification to KCIW in writing in advance and must receive authorization from KCIW for the relief discharge to continue.

g. During the early stages of well development, BMR-Dexter LLC may request KCIW to exceed the 14-day relief period if well development takes longer than 14 days. In this case, BMR-Dexter LLC must provide clear justification to KCIW in writing in advance and must receive authorization from KCIW for the relief discharge to continue.

F. All persons responsible for monitoring the discharge to the sanitary sewer shall review a copy of this authorization.

G. A copy of this authorization shall be on site at all times for review and reference.

H. This authorization grants the discharge of limited amounts of wastewater from the following waste streams:

1. Contaminated stormwater runoff
2. Excavation dewatering
3. Well(s) dewatering

Wastes or contaminants from sources other than permitted herein shall not be discharged to the sanitary sewer without prior approval from KCIW.

I. The discharge shall not cause hydraulic overloading conditions of the sewerage conveyance system. During periods of peak hydraulic loading KCIW and Seattle Public Utilities representatives reserve the authority to request that discharge to the sewer be stopped.

J. All wastewater shall be collected and treated in accordance with treatment methods approved by KCIW. Wastewater shall not bypass treatment systems. Modifications to wastewater treatment systems shall not occur without prior approval from KCIW.

K. Totalizing and non-resettable flow meters must be installed on all permitted discharge pipes to the sewer.

L. An accessible sampling spigot must be installed on the discharge pipe from the last treatment unit of the wastewater treatment system. The sample site shall be representative of all industrial waste streams discharged to the sewer from this site. Each sample site shall be accessible to KCIW representatives when discharge to the sewer is occurring.

M. The contractor shall implement erosion control best management practices to minimize the amount of solids discharged to the sanitary sewer system. As a minimum precaution, the wastewater must be pumped to an appropriately sized settling tank(s) prior to entering the sewer system.

N. The permittee shall properly operate and maintain all wastewater treatment units to ensure compliance with established discharge limits. Solids accumulation in tanks used for solids settling shall not exceed 25 percent of the tank's working hydraulic capacity. Each tank's working hydraulic capacity is based on the water column height as measured from the bottom of the tank to either the invert elevation of the tank's outlet pipe (gravity discharges) or discharge pump intake (pumped discharges).

O. Results of all required self-monitoring sampling must be recorded daily. Recorded information for each discharge site must include:

1. Sample date
2. Sample time
3. Sample results
4. Operator name
5. Comments (if applicable)

These records shall be maintained on site and shall be available for review by KCIW personnel during normal business hours.

P. The permittee must establish a sewer account with Seattle Public Utilities and provide necessary reports to ensure accurate assessment of sewer charges for all construction dewatering discharge sites associated with this project.

SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

Sample Site No.	Parameter	Sample Type	Frequency
IW1422A	pH	Grab	Daily
	Settleable Solids	Grab[B] (by Imhoff Cone)	Daily
	Daily Discharge Volume (gpd)	Meter reading	Daily
	Flow Rate (gpm)	Grab	Daily
	Maximum Daily Discharge Volume	Meter reading	Monthly
	Total Monthly Flow	Meter reading	Monthly
	Nonpolar FOG	3 Grabs[C]	Monthly
	Cis-1,2-Dichloroethylene	Grab	Monthly
	Tetrachloroethylene (PCE)	Grab	Monthly
	1,1,2-Trichloroethylene (TCE)	Grab	Monthly
	Benzene	Grab	Monthly
	Ethylbenzene	Grab	Monthly
	Toluene	Grab	Monthly
	Total Xylenes	Grab	Monthly
	Vinyl Chloride	Grab	Monthly
	Hydrogen sulfide	Meter reading	Only if operating criteria are exceeded
	Explosivity	Meter reading	Only if operating criteria are exceeded

B. The settleable solids field test by Imhoff cone must be performed as follows:

1. Fill Imhoff cone to one-liter mark with well-mixed sample

2. Allow 45 minutes to settle
3. Gently stir sides of cone with a rod or by spinning; settle 15 minutes longer
4. Record volume of settleable matter in the cone as ml/L

C. The three nonpolar fats, oils, and grease (FOG) grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as Total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.

D. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.

E. A self-monitoring report shall be filed with KCIW no later than the 15th day of the time period following the sample collection (e.g., the 15th day of the following month for monthly, weekly, daily samples; the 15th day of the following quarter for quarterly samples). If no discharge takes place during any monitoring period, it shall be noted on the report.

F. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.

G. All sampling data collected by the permittee and analyzed using procedures approved by 40 CFR 136, or approved alternatives, shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.

H. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:

1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation

2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:

   a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations

b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures

3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively

4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency

5. The individuals described in one through four above may designate an authorized representative if:

   a. The authorization is submitted to King County in writing.
   b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency.

GENERAL DISCHARGE LIMITATIONS

Operating criteria

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, or unusual color. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-477-5300.

Corrosive substances

Limits

Maximum:	pH 12.0 (s.u.)
Instantaneous minimum[1]:	pH 5.0 (s.u.)
Daily minimum[2]:	pH 5.5 (s.u.)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0. The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of more than 50 gallons per day of caustic solutions equivalent to more than 5 percent NaOH by weight or greater than pH 12.0 are prohibited unless authorized by KCIW and subject to special conditions to protect worker safety, the collection system, and treatment works.

Fats, oils, and grease

Discharge of FOG shall not result in significant accumulations that either alone or in combination with other wastes are capable of obstructing flow or interfere with the operation or performance of sewer works or treatment facilities.

Dischargers of polar FOG (oil and grease from animal and/or vegetable origin) shall minimize free-floating polar FOG. Dischargers may not add emulsifying agents exclusively for the purpose of emulsifying free-floating FOG.

Nonpolar FOG limit: 100 mg/L

The limit for nonpolar FOG is violated when the arithmetic mean of the concentration of three grab samples, taken no more frequently than at five minute intervals, or when the results of a composite sample exceed the limitation.

---

[1] The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0.

[2] The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Flammable or explosive materials

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

Heavy metals/cyanide

The industrial user shall not discharge wastes, which exceed the following limitations:

Heavy Metals & Cyanide	Instantaneous Maximum ppm (mg/L)[1]	Daily Average ppm (mg/L)[2]
Arsenic	4.0	1.0
Cadmium	0.6	0.5
Chromium	5.0	2.75
Copper	8.0	3.0
Lead	4.0	2.0
Mercury	0.2	0.1
Nickel	5.0	2.5
Silver	3.0	1.0
Zinc	10.0	5.0
Cyanide	3.0	2.0

[1]The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

[2]The daily average limit is violated: a) for a continuous flow system when a composite sample consisting of four or more consecutive samples collected during a 24-hour period over intervals of 15 minutes or greater exceeds the limitation, or b) for a batch system when any sample exceeds the limitation. A composite sample is defined as at least four grab samples of equal volume taken throughout the processing day from a well-mixed final effluent chamber, and analyzed as a single sample.

High temperature

The industrial user shall not discharge material with a temperature in excess of 65° C (150° F).

Hydrogen sulfide

Atmospheric hydrogen sulfide: 10.0 ppm
(As measured at a monitoring manhole designated by KCIW)

Soluble sulfide limits may be established on a case-by-case basis depending upon volume of discharge and conditions in the receiving sewer, including oxygen content and existing sulfide concentrations.

Organic compounds

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause worker health and safety problems.

Organic pollutants subject to this restriction include, but are not limited to: Any organic pollutants compound listed in 40 CFR Section 433.11 (e) (total toxic organics [TTO] definition), acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), and xylenes.

Settleable solids

Settleable solids concentrations: 7.0 mL/L

Organic Compound Screening Levels and Reporting Requirements

1. Discharges that exceed the following screening levels have the potential to cause health hazards in the sewage collection system or indicate that treatment has not been sufficient enough to remove hazardous waste characteristics.

Compound	CAS Number	Wastewater Screening Level (mg/L)
Cis-1,2-Dichloroethylene	156-59-2	1.0
1,1,2-Trichloroethylene (TCE)	79-01-6	0.5
Tetrachloroethylene (PCE)	127-18-4	0.24
Vinyl Chloride	75-01-4	0.012
Benzene	71-43-2	0.07
Ethylbenzene	100-41-4	1.7
Toluene	108-88-3	1.4
Total xylenes	1330-20-7	2.2

2. For each exceedance of the screening levels, the permittee shall:

   a. Notify KCIW within 24 hours of learning of the exceedance

   b. Collect a sample and submit new data to KCIW within 14 days of becoming aware of the exceedance (or the next time discharge occurs if greater than 14 days)

c. Submit a written report within 14 days of learning of the exceedance (*14-Day Report*)

d. The report should explain the cause of the exceedance and corrective actions taken to respond to the exceedance and ensure ongoing compliance

3. Whenever KCIW's monitoring or the permittee's self-monitoring results exceed the screening level for three out of four consecutive sampling events, the permittee shall submit a plan indicating the steps that will be taken to ensure that organic compound discharges do not exceed screening levels. The report:

   a. Shall be submitted within 30 days of the third self-monitoring result that shows organic compound discharges that exceed screening levels

   b. Shall indicate the steps that will be taken to reduce organic chemical concentrations so that they remain consistently below screening levels within 60 days

   c. May be used by the permittee or KCIW to evaluate the adequacy of your pretreatment system and other best management practices in order to identify whether additional waste characterization needs to be performed; or additional operational and structural upgrades are needed that will enable you to consistently meet King County organic compound screening levels

GENERAL CONDITIONS

A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.

B. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.

C. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any changes that will cause the violation of the effluent limitations specified herein will not be allowed.

D. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:

1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
3. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.

E. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of the discharge authorization or the resulting liability for failure to comply.

F. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.

G. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.

H. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the time period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator: Dana Heinz Date: January 4, 2019

Dana Heinz

King County

Industrial Waste Program Monthly Self-Monitoring Report

Send to: King County Industrial Waste Program
201 S. Jackson Street, Suite 513
Seattle, WA 98104-3855
Phone 206-477-5300 / FAX 206-263-3001
Email: info.kciw@kingcounty.gov

Company Name: BMR - Dexter LLC - 700 Dexter Project **Sample Site No.** IW1422A **Permit/DA No.:** 4482-01

Please Specify Month & Year: **Month:** _____ **20**____

This form is available at: www.kingcounty.gov/industrialwaste.

All units are mg/L unless otherwise noted.

Sample Date	pH	Settleable Solids (mL/L)	*Cis*-1,2-Dichloroethylene	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	NP Fats, Oils, and Grease (Average of 3 grabs)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Vinyl Chloride (µg/L)	Total Xylenes (µg/L)	Maximum Daily Flow Rate (gallons per minute)	Daily Flow (gallons per day)	Notes If relief only, indicate why discharging to sanitary sewer.
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Monthly Min pH _____ & Date _____ Total Monthly Flow (gallons) _____

Monthly Max pH _____ & Date _____ Maximum Daily Flow _____ & Date _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent _____ Date _____

PLEASE CIRCLE ALL VIOLATIONS

Due Date: Monthly report is due by the 15th each month.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

March 1, 2019

John Moshy
BMR-Dexter LLC
201 Elliott Ave W Ste 150
Seattle, WA 98119-4230

RE: Coverage under the Construction Stormwater General Permit (CSWGP)

Permit number:	**WAR307169**
Site Name:	**700 Dexter**
Location:	**700 Dexter Ave. N**
	Seattle, WA **County: King**
Disturbed Acres:	**1.55**

Dear John Moshy:

The Washington State Department of Ecology (Ecology) received your Notice of Intent for coverage under Ecology's Construction Stormwater General Permit (CSWGP). This is your permit coverage letter. Your permit coverage is effective March 1, 2019. **Please retain this permit coverage letter as the official record of permit coverage for your site.**

Ecology has approved use of electronic formats as long as they are easily produced on your construction site. A mobile friendly copy of the CSWGP permit, permit forms, and information related to your permit can be viewed and downloaded at www.ecology.wa.gov/eCoverage-packet. Please contact your Permit Administrator, listed below, if you would like to receive a hard copy of the CSWGP.

Please take time to read the entire permit, the Administrative Order Number 16204 and contact Ecology if you have any questions.

Electronic Discharge Monitoring Reports (WQWebDMR)
This permit requires that Permittees submit monthly discharge monitoring reports (DMRs) for the full duration of permit coverage (from issuance date to termination). DMRs must be submitted electronically using Ecology's secure online system, WQWebDMR. To sign up for WQWebDMR go to www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html. If you have questions, contact the portal staff at (360) 407-7097 (Olympia area), or (800) 633-6193/option 3, or email WQWebPortal@ecy.wa.gov.

Appeal Process
You have a right to appeal coverage under the general permit to the Pollution Control Hearing Board (PCHB). Appeals must be filed within 30 days of the date of receipt of this letter. Any appeal is limited to the general permit's applicability or non-applicability to a specific discharger. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2). For more information regarding your right to appeal, go to https://fortress.wa.gov/ecy/publications/SummaryPages/1710007.html to view Ecology's Focus Sheet: *Appeal of General Permit Coverage*.

Ecology Field Inspector Assistance
If you have questions regarding stormwater management at your construction site, please contact Evan Dobrowski of Ecology's Northwest Regional Office in Bellevue at evan.dobrowski@ecy.wa.gov, or (425) 649-7276.

Questions or Additional Information
Ecology is committed to providing assistance. Please review our web page at www.ecology.wa.gov/constructionstormwaterpermit. If you have questions about the Construction Stormwater General Permit, please contact your Permit Administrator, RaChelle Stane at rachelle.stane@ecy.wa.gov or (360) 407-6556.

Sincerely,

Vincent McGowan, P.E., Manager
Program Development Services Section
Water Quality Program

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

FEB 21 2019

John Moshy
BMR – Dexter LLC
201 Elliott Ave W Ste 150
Seattle, WA 98119-4230

Order Docket No.	16204
Site Location	700 Dexter – 700 Dexter Ave N, Seattle, WA 98109

Re: Administrative Order

Dear John Moshy:

The Department of Ecology (Ecology) has issued the enclosed Administrative Order (Order) requiring BMR – Dexter LLC to comply with:

- Chapter 90.48 Revised Code of Washington (RCW) – State of Washington Water Pollution Control Act.
- Chapter 173-201A Washington Administrative Code (WAC) – Water Quality Standards for Surface Waters of the State of Washington.
- National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit, Permit Number WAR307169.

If you have questions please contact Evan Dobrowski at 425-649-7276 or edob461@ecy.wa.gov.

Sincerely,

Rachel McCrea

Rachel McCrea
Water Quality Section Manager
Northwest Regional Office
Washington State Department of Ecology

Enclosure: Administrative Order Docket No. 16204

By Certified Mail No.: 9171 9690 0935 0204 6827 64

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

IN THE MATTER OF AN ADMINISTRATIVE ORDER AGAINST BMR – Dexter LLC	))))	ADMINISTRATIVE ORDER DOCKET NO. 16204

To: John Moshy
BMR – Dexter LLC
201 Elliott Ave W Ste 150
Seattle, WA 98119-4230

Order Docket No.	16204
Site Location	700 Dexter – 700 Dexter Ave N, Seattle, WA 98109

The Washington State Department of Ecology (Ecology) has issued this Administrative Order (Order) requiring the BMR – Dexter LLC to comply with:

- Chapter 90.48 Revised Code of Washington (RCW) – State of Washington Water Pollution Control Act.
- Chapter 173-201A Washington Administrative Code (WAC) – Water Quality Standards for Surface Waters of the State of Washington.
- Permit: National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit WAR307169.

This is an Administrative Order in accordance with General Condition G13 (Additional Monitoring) as set forth in the Construction Stormwater General Permit. RCW 90.48.120(2) RCW authorizes Ecology to issue Administrative Orders to accomplish the purposes of Chapter 90.48 RCW.

ORDER TO COMPLY

Violation(s) and associated corrective action(s):

BMR – Dexter LLC has received coverage under the Construction Stormwater General Permit (CSWGP) No. WAR307169, for construction activities associated with the construction site known as the 700 Dexter. The receiving water body will be Lake Union. BMR – Dexter LLC reported that part of the construction site contains contaminated soil and groundwater which contains pollutants that may be discharged due to the proposed construction activity. The CSWGP does not have water quality sampling or benchmarks for the known constituents of concern listed in Table 1; however, the permit requires compliance with the Chapter 173-201A Washington Administrative Code (WAC) – Water Quality Standards for Surface Waters of the State of Washington (WAC 173-201A).

The Order establishes Indicator Levels for the BMR – Dexter LLC project. Indicator Levels express a pollutant concentration used as a threshold, below which a pollutant is considered unlikely to cause a water quality violation, and above which it may. Indicator Levels in this Administrative Order were derived from WAC 173-201A and the analytical method's minimum quantitation level.

For these reasons and in accordance with RCW 90.48.120(2) it is ordered that the BMR – Dexter LLC take the following actions. These actions are required at the location known as the 700 Dexter – 700 Dexter Ave N, Seattle, WA 98109. In the event of a permit transfer to another Permittee, compliance with this Administrative Order and the actions listed below is required.

Immediately upon receipt of this Order and continuously thereafter BMR – Dexter LLC must:

- Install all pre-treatment and treatment systems prior to any discharge of contaminated dewatering water or contaminated construction stormwater to the receiving water body.
- Capture, contain, and treat all contaminated dewatering or contaminated stormwater prior to discharge to the receiving water body.
- Use an Ecology-approved treatment system and media filtration to treat any contaminated dewatering water or contaminated stormwater. Ecology must be notified in advance if any changes in the treatment are made, with the exception of routine maintenance.
- All captured sediment from the treatment of the dewatering water or contaminated stormwater must be transported to an approved disposal facility based on the level of contamination.
- The treatment system must have enough capacity to hold the treated dewatering water or stormwater until it has been tested to determine if any of the Indicator Levels listed in Table 1 have been exceeded. No dewatering water or stormwater may be discharged before it has been tested for the parameters listed in Table 1. If any of the Indicator Levels listed in Table 1 are exceeded, the treated dewatering water or stormwater must not be discharged to the receiving water body. The treated dewatering water or stormwater may be discharged to the receiving water body if it has been treated and retested to determine that all parameters are equal to or below the Indicator Levels listed in Table 1. If any of the Indicator Levels are exceeded after being retested, BMR – Dexter LLC shall truck the contaminated storm or groundwater off-site for disposal in an approved manner. BMR – Dexter LLC may also discharge to sanitary sewer if authorization from the proper sewer authority has been obtained and Ecology is notified of the change.
- Once the effectiveness of the treatment system has been determined, BMR – Dexter LLC may revert to a flow-through treatment system after the minimum two sampling and testing events and upon written approval from Ecology. The flow-through treatment system design must be submitted to Ecology for review prior to use.
- If a flow-through treatment system is adopted, all dewatering water or contaminated stormwater must be sampled weekly while discharging and tested for the parameters listed in Table 1.

- When using a flow-through treatment system, if any of the Indicator Levels listed in Table 1 are exceeded, BMR – Dexter LLC must stop the discharge of treated dewatering water or stormwater to the receiving water body until it has been retested to determine that all parameters are equal to or below the Indicator Levels in Table 1. If any of the Indicator Levels are exceeded after being retested, BMR – Dexter LLC shall modify the existing flow-through treatment system to increase its effectiveness or install an Ecology-approved treatment system or truck the contaminated stormwater or groundwater off-site for disposal in an approved manner.
- Sampling for the contaminants listed in Table 1 must be reported on the required Discharge Monitoring Report (DMR) according to Permit Conditions (S5.B Discharge Monitoring Reports).
- If sampling is conducted more frequently than required by this Order, the results of this monitoring must be included in the calculation and reporting of the data that is submitted in the Discharge Monitoring Reports (DMRs).
- Any discharge to waters of the state in exceedance of the contaminant Indicator Levels in Table 1 except for pH criteria shall be reported according to Permit Condition S5.F, Noncompliance Notification as follows:
    - Immediately notify Ecology of noncompliance by calling the regional 24-hour Environmental Report Tracking System (ERTS) phone number (425) 649-7000.
    - Cease the discharge until indicator levels can be met.
    - Submit a detailed, written report to Ecology within five (5) days, unless requested earlier by Ecology. See Permit Condition S5.F.3 for Noncompliance Notification requirements.
- All samples must be analyzed by a laboratory registered or accredited under the provisions of Accreditation of Environmental Laboratories, Chapter 137-50 WAC.
- All sampling data must be reported monthly on Discharge Monitoring Reports (DMRs) electronically using Ecology's secure online system WQWebDMR, in accordance to Permit Condition S5.B. If the measured concentration is below the detection level, then BMR – Dexter LLC shall report single analytical values below detection as "less than the detection level (DL)" by entering "<" followed by the numeric value of the detection level (e.g. "<0.1"). All other values above DL must be reported as the numeric value.
- Contaminated soils excavated during construction will be hauled off-site without stockpiling to an approved disposal facility based on the level of contamination. When it is not feasible to haul soils off-site, the soils must be covered or placed in a covered area to minimize contact with stormwater.
- Noncompliance with permit requirements or the provisions of this Order must be immediately reported to the Northwest Regional Office of the Department of Ecology in accordance with Permit Condition S5.F, Noncompliance Notification.
- If a modification of the Order is desired, a written request shall be submitted to Ecology and if approved, Ecology will issue an amendment to this Order.

Ecology retains the right to make modifications to this Order through supplemental Order, or amendment to this Order, it if appears necessary to further protect the public interest.

This Order does not exempt BMR – Dexter LLC from any Construction Stormwater General Permit requirement.

Table 1.

BMR – Dexter LLC must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for monitoring unless the method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136. If BMR – Dexter LLC uses an alternative method, not specified in the order and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report.

Pollutant & CAS No. (if available)	Sampling Frequency	Sample Type	Indicator Level, µg/L unless otherwise noted	Required Analytical Protocol (Or equivalent)	Detection Level, µg/L	Quantitation Level, µg/L
CHLORINATED VOLATILE ORGANIC COMPOUNDS (CVOCs)						
Tetrachloroethene (127-18-4)	Batch/Weekly	Grab	2.0 [a]	EPA 624/8260	1.0	2.0
cis-1,2-Dichloroethene (156-159-2)	Batch/Weekly	Grab	2.0 [a]	EPA 624/8260	1.0	2.0
Trichloroethene (79-01-6)	Batch/Weekly	Grab	2.0 [a]	EPA 624	1.0	2.0
Vinyl chloride (75-01-4)	Batch/Weekly	Grab	2.0 [a]	624/SM6200B	1.0	2.0
Construction Stormwater General Permit Benchmarks						
Parameter			**Benchmark**	**Analytical Method**		
Turbidity	Batch/Weekly	Grab	25 NTU	SM2130		
pH	Batch/Weekly	Grab	6.5 - 8.5 SU	SM4500-H^+ B		
[a] No surface water standard, value is laboratory quantitation level.						

FAILURE TO COMPLY WITH THIS ORDER

Failure to comply with this Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.

YOUR RIGHT TO APPEAL

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do both of the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order on Ecology in paper form – by mail or in person (see addresses below). Email is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

Your appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	**Department of Ecology** Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road SW Suite 301 Tumwater, WA 98501	**Pollution Control Hearings Board** PO Box 40903 Olympia, WA 98504-0903

CONTACT INFORMATION

Please direct all questions about this Order to:

Evan Dobrowski
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452

Phone: (425) 649 - 7276
Email: edob461@ecy.wa.gov

MORE INFORMATION

- **Pollution Control Hearings Board Website:** www.eho.wa.gov/Boards_PCHB.aspx
- **Chapter 43.21B RCW – Environmental Hearings Office – Pollution Control Hearings Board:** http://apps.leg.wa.gov/RCW/default.aspz?cite=43.21B
- **Chapter 371-08 WAC – Practice and Procedure:** http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08
- **Chapter 34.05 RCW – Administrative Procedure Act:** http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05
- **Laws:** www.ecy.wa.gov/laws-rules/ecyrcw.html
- **Rules:** www.ecy.wa.gov/laws-rules/ecywac.html

SIGNATURE

Rachel McCrea

Rachel McCrea
Water Quality Section Manager
Northwest Regional Office
Washington State Department of Ecology

2-21-2019
Date

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 03/01/2019 - 03/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:37:45 PM — **Date**

Washington State Department of Ecology — Discharge Monitoring Report (DMR)

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 04/01/2019 - 04/30/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:37:49 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 05/01/2019 - 05/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:37:51 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 06/01/2019 - 06/30/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:37:54 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 07/01/2019 - 07/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:37:57 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 08/01/2019 - 08/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-Th	**8/1/19**	C	C	C	C	C	C
2-Su	**8/4/19**	C	C	C	C	C	C
3-Su	**8/11/19**	C	C	C	C	C	C
4-Su	**8/18/19**	C	C	C	C	C	C
5-F	**8/30/19**	B|1.00	B|1.00	B|0.500	B|0.200	0.440	8.04
Minimum							8.04
							BM: >= 6.5 (RO)
Maximum						0.44	8.04
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:38:00 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 09/01/2019 - 09/30/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

10/11/2019 2:38:03 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 10/01/2019 - 10/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-T	**10/1/19**	C	C	C	C	C	C
2-T	**10/8/19**	B|1.00	B|1.00	B|0.500	B|0.200	1.58	7.9
3-T	**10/15/19**	B|1.00	B|1.00	B|0.500	B|0.200	4.9	7.2
4-T	**10/22/19**	B|1.00	B|1.00	B|0.500	B|0.200	5.1	7.3
5-T	**10/29/19**	B|1.00	B|1.00	B|0.500	B|0.200	2.7	7.0
Minimum							7
							BM: >= 6.5 (RO)
Maximum						5.1	7.9
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

11/8/2019 2:17:33 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 11/01/2019 - 11/30/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-T	**11/5/19**	B|1.00	B|1.00	B|0.500	B|0.200	3.4	7.8
3-T	**11/12/19**	B|1.00	B|1.00	B|0.500	B|0.200	2.9	8.2
4-T	**11/19/19**	B|1.00	B|1.00	B|0.500	B|0.200	3.2	7.1
5-M	**11/25/19**	B|1.00	B|1.00	B|0.500	B|0.200	4.4	7.3
Minimum							7.1
							BM: >= 6.5 (RO)
Maximum						4.4	8.2
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

12/10/2019 10:09:18 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 12/01/2019 - 12/31/2019 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-T	**12/3/19**	B|1.00	B|1.00	B|0.500	B|0.200	2.5	7.6
2-T	**12/10/19**	B|1.00	B|1.00	B|0.500	B|0.200	3.7	7.5
3-T	**12/17/19**	B|1.00	B|1.00	B|0.500	B|0.200	2.5	7.6
4-M	**12/23/19**	B|1.00	B|1.00	B|0.500	B|0.200	2.8	7.5
Minimum							7.5
							BM: >= 6.5 (RO)
Maximum						3.7	7.6
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

1/13/2020 9:55:59 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 01/01/2020 - 01/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-Th	**1/2/20**	B|1.00	B|1.00	B|0.500	B|0.200	1.4	7.9
2-T	**1/7/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.3	8.2
3-F	**1/17/20**	B|1.00	B|1.00	B|0.500	B|0.200	1.7	8.5
4-Su	**1/19/20**	C	C	C	C	C	C
5-W	**1/29/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.6	8.2
Minimum							7.9
							BM: >= 6.5 (RO)
Maximum						2.6	8.5
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

2/6/2020 8:53:27 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 02/01/2020 - 02/29/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-F	**2/7/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.3	7.9
3-T	**2/11/20**	B|1.00	B|1.00	B|0.500	B|0.200	3.5	7.2
4-T	**2/18/20**	B|1.00	B|1.00	B|0.500	0.224	1.5	7.8
5-W	**2/26/20**	B|1.00	B|1.00	B|0.500	0.327	2.4	7.8
Minimum							7.2
							BM: >= 6.5 (RO)
Maximum						3.5	7.9
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

3/4/2020 9:02:11 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 03/01/2020 - 03/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-M	**3/2/20**	B|1.00	B|1.00	B|0.5	B|0.2	2.6	7.9
2-T	**3/10/20**	B|1.00	B|1.00	B|0.5	B|0.2	4.1	8.1
3-T	**3/17/20**	B|1.00	B|1.00	B|0.5	0.494	3.7	7.7
4-T	**3/24/20**	B|1.00	B|1.00	B|0.5	1.25	1.9	7.9
Minimum							7.7
							BM: >= 6.5 (RO)
Maximum						4.1	8.1
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

4/2/2020 12:26:12 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 04/01/2020 - 04/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-W	**4/1/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.5	7.7
2-T	**4/7/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.8	7.6
3-T	**4/14/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.6	7.7
4-F	**4/24/20**	B|1.00	B|1.00	B|0.500	B|0.2	1.7	7.7
5-Su	**4/26/20**	C	C	C	C	C	C
Minimum							7.6
							BM: >= 6.5 (RO)
Maximum						2.8	7.7
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

5/6/2020 11:00:33 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 05/01/2020 - 05/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-T	**5/5/20**	B|1.00	B|1.00	B|0.5	0.755	4.8	7.7
3-F	**5/15/20**	B|1.00	B|1.00	B|0.5	0.576	5	7.5
4-Th	**5/21/20**	B|1.00	B|1.00	B|0.5	0.263	5.7	7.5
5-Th	**5/28/20**	B|1.00	B|1.00	B|0.5	B|0.2	3.2	7.6
Minimum							7.5
							BM: >= 6.5 (RO)
Maximum						5.7	7.7
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

6/11/2020 10:22:40 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 06/01/2020 - 06/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-F	**6/5/20**	B|1.00	B|1.00	B|0.500	0.546	1.7	7.3
2-Th	**6/11/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.9	7.7
3-T	**6/16/20**	B|1.00	B|1.00	B|0.500	B|0.200	3.4	7.9
4-T	**6/23/20**	B|1.00	B|1.00	B|0.500	0.673	2.9	7.8
5-T	**6/30/20**	B|1.00	B|1.00	B|0.500	1.24	1.2	7.6
Minimum							7.3
							BM: >= 6.5 (RO)
Maximum						3.4	7.9
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

7/14/2020 8:37:29 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 07/01/2020 - 07/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-T	**7/7/20**	B|1.00	B|1.00	B|0.500	1.86	1.7	7.8
3-T	**7/14/20**	B|1.00	B|1.00	B|0.500	1.98	2.9	7.7
4-Su	**7/19/20**	C	C	C	C	C	C
5-Su	**7/26/20**	C	C	C	C	C	C
Minimum							7.7
							BM: >= 6.5 (RO)
Maximum						2.9	7.8
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

8/3/2020 9:14:34 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 08/01/2020 - 08/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

9/9/2020 3:13:21 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 09/01/2020 - 09/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-T	9/1/20	C	C	C	C	C	C
2-Su	9/6/20	C	C	C	C	C	C
3-Su	9/13/20	C	C	C	C	C	C
4-Su	9/20/20	C	C	C	C	C	C
5-Su	9/27/20	C	C	C	C	C	C
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson
Signature

10/15/2020 8:23:14 AM
Date

Washington State Department of Ecology — Discharge Monitoring Report (DMR)

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 10/01/2020 - 10/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

11/13/2020 11:20:23 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 01/01/2020 - 01/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-Th	**1/2/20**	B|1.00	B|1.00	B|0.500	B|0.200	1.4	7.9
2-T	**1/7/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.3	8.2
3-F	**1/17/20**	B|1.00	B|1.00	B|0.500	B|0.200	1.7	8.5
4-Su	**1/19/20**	C	C	C	C	C	C
5-W	**1/29/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.6	8.2
Minimum							7.9
							BM: >= 6.5 (RO)
Maximum						2.6	8.5
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

2/6/2020 8:53:27 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 02/01/2020 - 02/29/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-F	**2/7/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.3	7.9
3-T	**2/11/20**	B|1.00	B|1.00	B|0.500	B|0.200	3.5	7.2
4-T	**2/18/20**	B|1.00	B|1.00	B|0.500	0.224	1.5	7.8
5-W	**2/26/20**	B|1.00	B|1.00	B|0.500	0.327	2.4	7.8
Minimum							7.2
							BM: >= 6.5 (RO)
Maximum						3.5	7.9
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

3/4/2020 9:02:11 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 03/01/2020 - 03/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-M	**3/2/20**	B|1.00	B|1.00	B|0.5	B|0.2	2.6	7.9
2-T	**3/10/20**	B|1.00	B|1.00	B|0.5	B|0.2	4.1	8.1
3-T	**3/17/20**	B|1.00	B|1.00	B|0.5	0.494	3.7	7.7
4-T	**3/24/20**	B|1.00	B|1.00	B|0.5	1.25	1.9	7.9
Minimum							7.7
							BM: >= 6.5 (RO)
Maximum						4.1	8.1
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jordan Moskowitz — **Signature**

4/2/2020 12:26:12 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 04/01/2020 - 04/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-W	**4/1/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.5	7.7
2-T	**4/7/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.8	7.6
3-T	**4/14/20**	B|1.00	B|1.00	B|0.500	B|0.2	2.6	7.7
4-F	**4/24/20**	B|1.00	B|1.00	B|0.500	B|0.2	1.7	7.7
5-Su	**4/26/20**	C	C	C	C	C	C
Minimum							7.6
							BM: >= 6.5 (RO)
Maximum						2.8	7.7
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

5/6/2020 11:00:33 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 05/01/2020 - 05/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-T	**5/5/20**	B|1.00	B|1.00	B|0.5	0.755	4.8	7.7
3-F	**5/15/20**	B|1.00	B|1.00	B|0.5	0.576	5	7.5
4-Th	**5/21/20**	B|1.00	B|1.00	B|0.5	0.263	5.7	7.5
5-Th	**5/28/20**	B|1.00	B|1.00	B|0.5	B|0.2	3.2	7.6
Minimum							7.5
							BM: >= 6.5 (RO)
Maximum						5.7	7.7
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

6/11/2020 10:22:40 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 06/01/2020 - 06/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-F	**6/5/20**	B|1.00	B|1.00	B|0.500	0.546	1.7	7.3
2-Th	**6/11/20**	B|1.00	B|1.00	B|0.500	B|0.200	2.9	7.7
3-T	**6/16/20**	B|1.00	B|1.00	B|0.500	B|0.200	3.4	7.9
4-T	**6/23/20**	B|1.00	B|1.00	B|0.500	0.673	2.9	7.8
5-T	**6/30/20**	B|1.00	B|1.00	B|0.500	1.24	1.2	7.6
Minimum							7.3
							BM: >= 6.5 (RO)
Maximum						3.4	7.9
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

7/14/2020 8:37:29 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 07/01/2020 - 07/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
2-T	**7/7/20**	B|1.00	B|1.00	B|0.500	1.86	1.7	7.8
3-T	**7/14/20**	B|1.00	B|1.00	B|0.500	1.98	2.9	7.7
4-Su	**7/19/20**	C	C	C	C	C	C
5-Su	**7/26/20**	C	C	C	C	C	C
Minimum							7.7
							BM: >= 6.5 (RO)
Maximum						2.9	7.8
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge

BMPs

Monitoring Point	Week	BMP
001		Construction Stormwater Chemical Treatment
001		Other

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Jordan Moskowitz — **Signature**

8/3/2020 9:14:34 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 08/01/2020 - 08/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

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Jacob Emerson — **Signature**

9/9/2020 3:13:21 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 09/01/2020 - 09/30/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
1-T	9/1/20	C	C	C	C	C	C
2-Su	9/6/20	C	C	C	C	C	C
3-Su	9/13/20	C	C	C	C	C	C
4-Su	9/20/20	C	C	C	C	C	C
5-Su	9/27/20	C	C	C	C	C	C
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson
Signature

10/15/2020 8:23:14 AM
Date

Washington State Department of Ecology — Discharge Monitoring Report (DMR)

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 10/01/2020 - 10/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	All Parameters		C	

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

11/13/2020 11:20:23 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 12/01/2020 - 12/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

1/5/2021 8:15:40 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:**

Monitoring Period: 12/01/2020 - 12/31/2020 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2016 <5 acres	Construction Stormwater General Permit 2016 <5 acres
Minimum							
							BM: >= 6.5 (RO)
Maximum							
						BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

1/5/2021 8:15:40 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:** Outfall 1

Monitoring Period: 01/01/2021 - 01/31/2021 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres
2-W	**1/6/21**	B|1.00	B|1.00	B|0.500	B|0.200	87	M	7.9	87	M	7.9
3-Th	**1/14/21**	B|1.00	B|1.00	B|0.500	B|0.200	8.6	M	8.2	8.6	M	8.2
4-Su	**1/17/21**	C	C	C	C	C	C	C	C	C	C
5-W	**1/27/21**	B|1.00	3.80*	B|0.500	B|0.200	14	M	8.3	14	M	8.3
Minimum							M	7.9		M	7.9
							BM: >= 33 (RO)	BM: >= 6.5 (RO)		BM: >= 33 (RO)	BM: >= 6.5 (RO)
Maximum						87		8.3	87		8.3
						BM: <= 25 (RO)		BM: <= 8.5 (RO)	BM: <= 25 (RO)		BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	cis-1,2-Dichloroethene Micrograms/L (ug/L)	1/27/2021	3.80	We sampled water being discharged into the Storm system on 1/27/2021. The sample taken showed levels of Cis-1,2-Dichloroethelene above the AO indicator of 2.0 µg/L. The detection was 3.80 µg/L. As outlined in our permit, we resampled, stopped discharge and sent for expedited testing of the new water sample, and notified Ecology. The resample test from 2/2/2021 showed Cis-1,2-Dichloroethelene as non-detect (ND).

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jacob Emerson — **Signature**

2/9/2021 10:56:58 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:** Outfall 1

Monitoring Period: 02/01/2021 - 02/28/2021 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres
1-T	**2/2/21**	B|1.00	B|1.00	B|0.500	B|0.200	7.1	M	8.2	7.1	M	8.2
2-Su	**2/7/21**	C	C	C	C	C	C	C	C	C	C
3-Su	**2/14/21**	C	C	C	C	C	C	C	C	C	C
4-W	**2/24/21**	B|1.00	B|1.00	B|0.500	B|0.200	10.4	M	8.0	10.4	M	8.0
Minimum							M	8		M	8
							BM: >= 33 (RO)	BM: >= 6.5 (RO)		BM: >= 33 (RO)	BM: >= 6.5 (RO)
Maximum						10.4		8.2	10.4		8.2
						BM: <= 25 (RO)		BM: <= 8.5 (RO)	BM: <= 25 (RO)		BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

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Jacob Emerson — **Signature**

3/5/2021 8:39:57 AM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:** Outfall 1

Monitoring Period: 03/01/2021 - 03/31/2021 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001	001	001	001	001
Limit Set		**Admin Order #16204**	**Admin Order #16204**	**Admin Order #16204**	**Admin Order #16204**	**Construction Stormwater General Permit 2021 <5 acres**	**Construction Stormwater General Permit 2021 <5 acres**	**Construction Stormwater General Permit 2021 <5 acres**	**Construction Stormwater General Permit 2021 <5 acres**	**Construction Stormwater General Permit 2021 <5 acres**	**Construction Stormwater General Permit 2021 <5 acres**
1-M	**3/1/21**	C	C	C	C	C	C	C	C	C	C
2-W	**3/10/21**	B|1.00	B|1.00	B|0.500	B|0.200	35.6	M	8.2	35.6	M	8.2
3-Th	**3/18/21**	B|1.00	B|1.00	B|0.500	B|0.500	35.1	M	8.3	35.1	M	8.3
4-Su	**3/21/21**	C	C	C	C	C	C	C	C	C	C
5-Su	**3/28/21**	C	C	C	C	C	C	C	C	C	C
Minimum											
							BM: >= 33 (RO)	BM: >= 6.5 (RO)		BM: >= 33 (RO)	BM: >= 6.5 (RO)
Maximum											
						BM: <= 25 (RO)		BM: <= 8.5 (RO)	BM: <= 25 (RO)		BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

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Jacob Emerson — **Signature**

4/12/2021 4:09:38 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:** Outfall 1

Monitoring Period: 04/01/2021 - 04/30/2021 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres
1-Th	**4/1/21**	B|0.400	B|0.500	B|0.500	B|0.350	21.3	M	8.1	21.3	M	8.1
2-T	**4/6/21**	B|0.400	B|0.500	B|0.500	B|0.350	23.2	M	8.0	23.2	M	8.0
3-W	**4/14/21**	B|0.400	B|0.500	B|0.500	B|0.350	55.4	M	8.2	55.4	M	8.2
4-W	**4/21/21**	B|0.400	B|0.500	B|0.500	B|0.350	796*	M	8.1	796*	M	8.1
5-F	**4/30/21**	B|0.400	B|0.500	B|0.500	B|0.350	62.3	M	8.0	62.3	M	8.0
Minimum											
							BM: >= 33 (RO)	BM: >= 6.5 (RO)		BM: >= 33 (RO)	BM: >= 6.5 (RO)
Maximum											
						BM: <= 25 (RO)		BM: <= 8.5 (RO)	BM: <= 25 (RO)		BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

Outfall: 001 - Outfall 1

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
001	Turbidity (Nephelometric) Measured NTU	4/21/2021	796	Project team notified Ecology of elevated turbidity levels. Discharge was stopped.
001	Turbidity (Nephelometric) Measured NTU	4/21/2021	796	Project team notified Ecology of elevated turbidity levels. Discharge was stopped.

BMPs

Monitoring Point	Week	BMP
001		Other

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Jacob Emerson — **Signature**

5/11/2021 2:25:17 PM — **Date**

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR307169 **Permittee:** 700 Dexter

Facility County: King **Receiving Waterbody:** Outfall 1

Monitoring Period: 05/01/2021 - 05/31/2021 **Outfall:** 001 - Outfall 1 **Version:** 1

Week	Monitoring Point	Tetrachloroethene (tetrachloroethylene) Micrograms/L (ug/L) Weekly Grab	cis-1,2-Dichloroethene Micrograms/L (ug/L) Weekly Grab	Trichloroethene (Trichloroethylene) Micrograms/L (ug/L) Weekly Grab	Vinyl Chloride Micrograms/L (ug/L) Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	Turbidity (cm) Measured Centimeters Weekly Grab	pH Standard Units Weekly Grab
		001	001	001	001	001	001	001	001	001	001
Limit Set		Admin Order #16204	Admin Order #16204	Admin Order #16204	Admin Order #16204	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres	Construction Stormwater General Permit 2021 <5 acres
2-Th	**5/6/21**	B|0.400	B|0.500	B|0.500	B|0.350	22.4	M	7.9	22.4	M	7.9
3-Su	**5/9/21**	C	C	C	C	C	C	C	C	C	C
4-Su	**5/16/21**	C	C	C	C	C	C	C	C	C	C
5-M	**5/24/21**	B|0.400	B|0.500	B|0.500	B|0.350	20.6	M	7.7	20.6	M	7.7
Minimum							M	7.7		M	7.7
							BM: >= 33 (RO)	BM: >= 6.5 (RO)		BM: >= 33 (RO)	BM: >= 6.5 (RO)
Maximum						22.4		7.9	22.4		7.9
						BM: <= 25 (RO)		BM: <= 8.5 (RO)	BM: <= 25 (RO)		BM: <= 8.5 (RO)

Reporting Codes Used: B - Below Detection Limit/No Detection, C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

BMPs

Monitoring Point	Week	BMP
001		Other
001		Straw Wattles

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Alex Torres
Signature

6/8/2021 11:57:48 AM
Date