# Stratum Group

PO Box 2546, Bellingham, Washington 98227
Phone (360) 714-9409


May 9, 2018

Sonja Max and Oliver Max
914 12th Street
Bellingham, Washington 98225

Re: **Underground Storage Tank Removal and Hazardous Waste Generator Identification**
Cascade Laundry
205 Prospect Street
Whatcom County Parcel 380330111249
Bellingham, Washington 98225
Ecology FS ID: 21786898

Dear Mr. Oliver and Ms. Sonja Max:

One underground storage tank (UST) was removed from the site at 205 Prospect Street in Bellingham, Washington on October 12, 2017. The tank was previously used to store solvent associated with a former dry cleaning operation.

One approximately 600-gallon UST was permanently closed, through removal, from the southeast corner of the site's building by Drakes Tanks of Sedro Woolley, Washington. The soil beneath the tank exhibited odors and discoloration that indicated a release to the environment. Two soil samples were collected to verify the release. The sample results indicated exceedences of gasoline-range petroleum in the soil and therefore the Washington State Department of Ecology was notified of the release.

Prior to removal of the tank, approximately 300-gallons of fluid was extracted from the tank. The liquid was classified as a flammable/ignitable liquid and therefore required a hazardous waste generator identification for disposal purposes. Due to the volume associated with the liquid, the site was deemed a large quantity generator and given the RCRA ID# WAH000054560. A total of six 55-gallon drums were removed from the site by Clean Harbors.

The release was reported to Department of Ecology.

**Site Description**

The Cascade Laundry site is located along the west side of Prospect Street between Flora Street and Central Avenue in the downtown area of Bellingham, Washington. The site occupies one tax parcel that utilizes the address of 205 Prospect Street. The location of the property is provided in Figure 1, below.

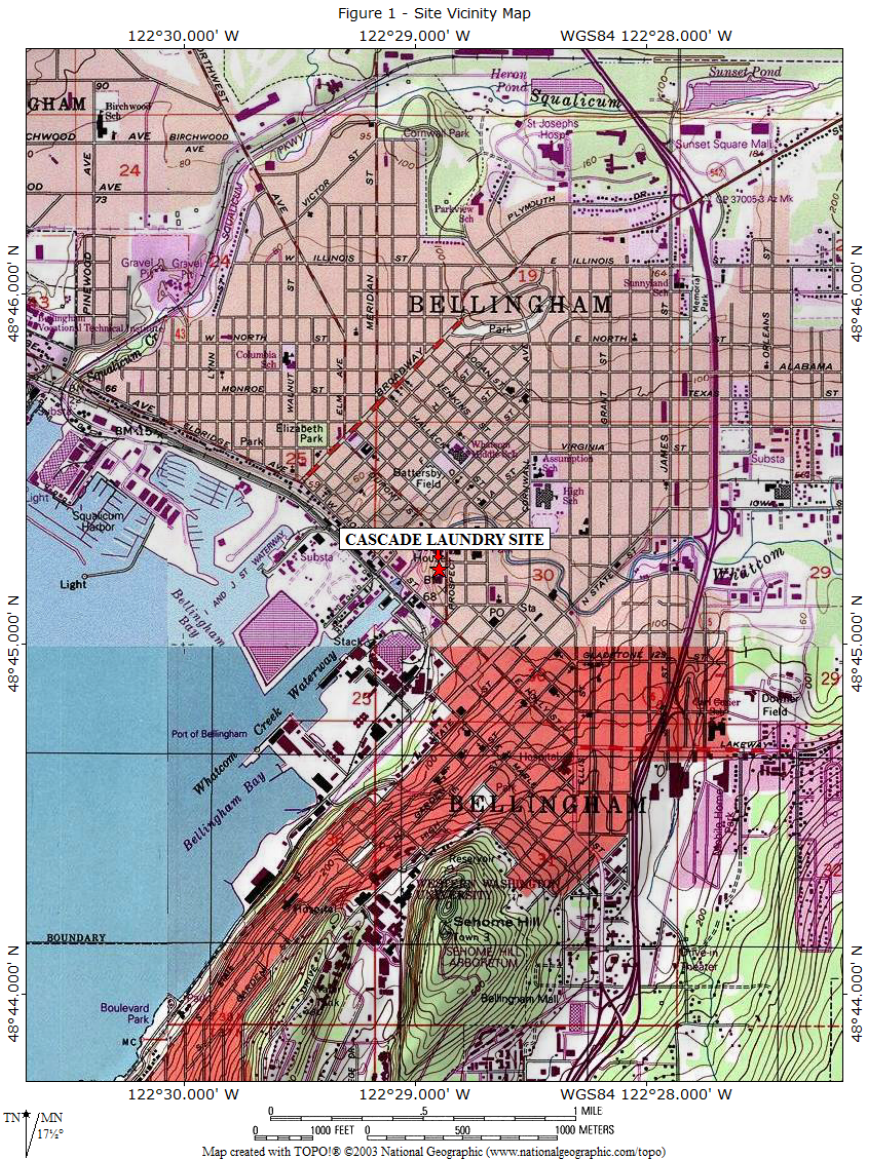



**Figure 1.** Site Vicinity Map

The Cascade Laundry site was developed as a dry cleaning and laundry facility by at least 1932, which included clothes dying and leather tanning. The site conducted dry cleaning activities through 1971. Commercial laundry continued at the site through the early 2000s. The site has undergone a significant interior renovation and has been utilized as an art/furniture gallery since approximately 2015 and a hard cider press and restaurant since 2018. The remainder of the building is under renovation for construction of a theater. Properties in the vicinity of the Cascade Laundry site are in commercial use along Prospect Street, with Maritime Heritage Park (former landfill) to the west. An aerial photograph of the site and vicinity is provided in Figure 2.

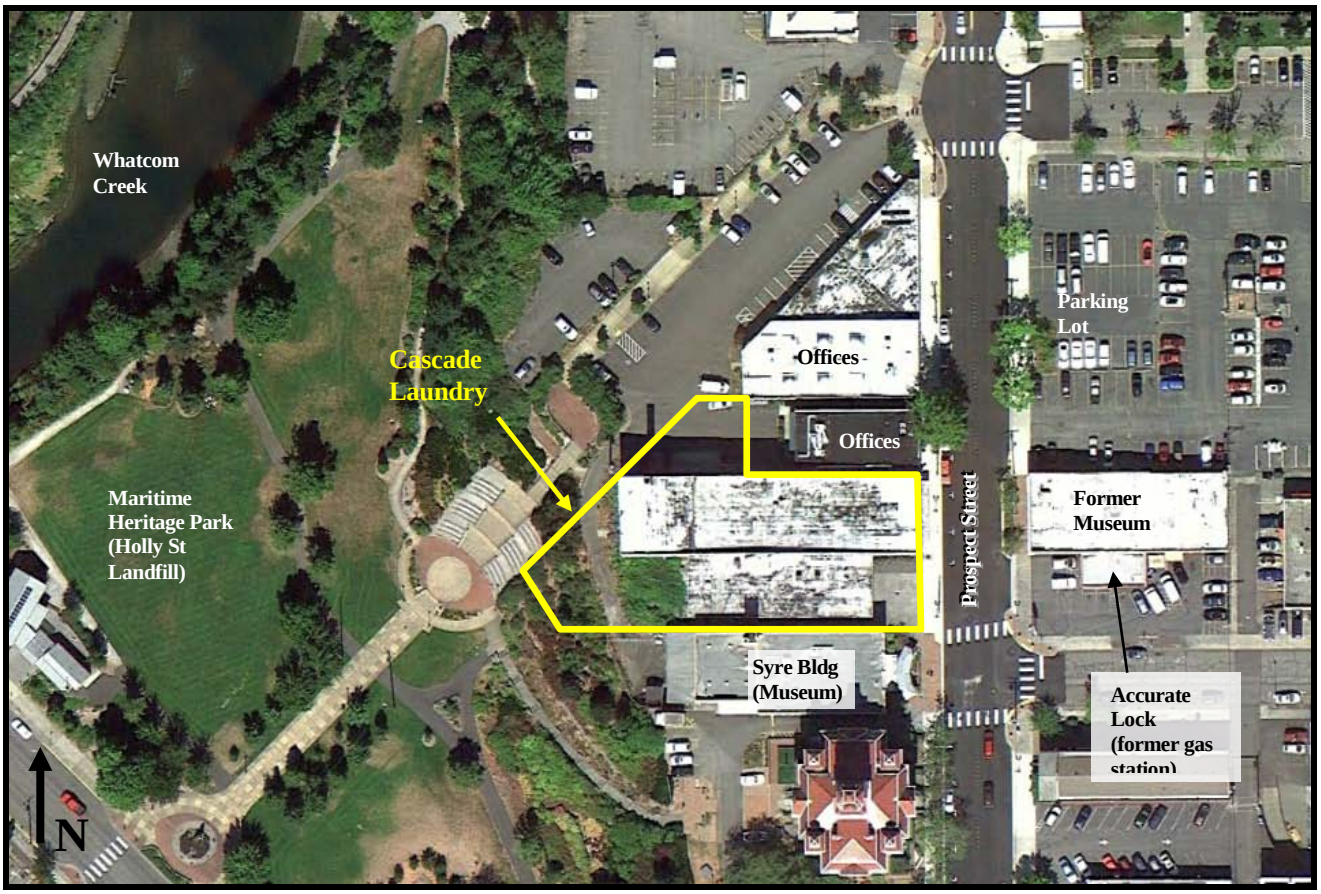



**Figure 1.** Aerial photo of site and surrounding land uses

The subject property slopes gently to the west. The slope of the property increases toward the western property boundary, with a steep former shoreline slope along and adjacent to the western property boundary. The slope is vegetated and is approximately 35 feet high. The site has an elevation of approximately 65 feet along Prospect Street and approximately 55 feet along its western boundary. Whatcom Creek estuary is located approximately 320 feet to the northwest and Whatcom Waterway is located approximately 500 feet west of the subject property.

Groundwater has been identified in perched layers between 12 and 17 foot depth. The regional groundwater is suspected to be approximately 40-45 feet below the ground surface.

## UST Removal

One 600-gallon former solvent UST was identified near the southwest corner of the building during shallow excavation activities for a future sidewalk. The tank was not a listed tank with Department of Ecology and no installation or tank content information was available. A copy of the *Permanent Closure Notice for Underground Tanks* is provided in Appendix I.

Drakes Tanks was onsite to decommission and remove the UST. The tank was removed on October 12, 2017. A total of approximately 300-gallons of fluid was removed into 55-gallon drums prior to the tank removal.

The tank was constructed single-walled steel and no piping was identified. The tank was approximately 9'long and 3'2" in diameter. The tank was in poor condition with obvious holes in the tank bottom. A photograph of the tank being removed from the site is provided in Figure 3.

**Figure 3.** View of the UST removal

**Soil Conditions**

Shallow gravel fill was underlain by brown clay to approximately four (4) foot depth. A distinct color change from brown to bluish-grey was noted from approximately four foot depth to the depth of the excavation pit at approximately nine (9) foot depth. The color change corresponded with a strong petroleum odor.

A photograph of the soil around the former UST is provided in Figure 4.

**Figure 4.** View of the excavation and soil around the former UST. Blue colored soil had odors indicative of release.

## Soil Sampling

Due to the obvious impacts to the soil, following tank removal, only two soil samples were collected to confirm that a release had taken place. Soil was collected for laboratory analyses, as well as field sampling that included sheen tests and evaluation of the soil for hydrocarbon odors and/or discoloration.

One 4-ounce soil sample jar was filled from each sampling location. In addition, one methanol containing VOA container and two VOA containers with stir bars were filled with 10 grams of soil, to comply with Method 5035 testing. The sampling equipment was cleaned with Alconox (laboratory grade soap) and triple rinsed prior to collection of each sample. The samples were immediately placed in an ice-chilled cooler. The soil samples were delivered to ALS Laboratory Group in Everett, Washington (8620 Holly Drive, Suite 100, Everett, Washington 98208; Ecology accreditation number C601) on October 16, 2017 for analysis.

Two samples were collected from directly below the UST, at different depths. Sample UST-B6.5 was collected from approximately one foot below the UST. The soil consisted of moist grey clay with a strong odor and heavy sheen. Sample UST-B9 was collected from nine foot depth below the former UST. The soil consisted of moist light grey clay. The soil at nine foot depth had a minor odor and a slight sheen.

## Soil Sample Results

Each sample was analyzed for gasoline, diesel, and oil-range petroleum, and halogenated volatile organic compounds.

A summary of the analytical results is provided in Table 1 and in Figure 6. The sample results are compared to the Model Toxic Control Act (MTCA) Method A or Method B cleanup standards (WAC 173-360) for unrestricted land use, as a screening tool. A copy of the complete laboratory report and chain-of-custody is provided in Appendix I.

**Table 1**
**Soil Sample Analytical Results**

| Sample ID | Sample Depth | Contaminant Results in mg/kg (methodology) | | | |
|---|---|---|---|---|---|
| | | **Gasoline** (NWPTH-GX) | **Diesel** (NWTPH-DX) | **Oil** (NWTPH-DX) | **VOCs**[c] EPA 8260 |
| **UST-B6.5** | 6.5 | **350** | U | U | 1,2-dichlorobenzene 0.022 |
| **UST-B9** | 9 | **400** | U | U | 1,2-dichlorobenzene 0.022 |
| *Reporting Limits* | | *60* | *25* | *50* | *0.10* |
| ***MTCA cleanup/screening standards*** | | ***100***[a] | ***2,000***[a] | | ***7,200***[b] |

mg/kg = parts-per-million; U = analyte not detected at reporting limit; a = clean up standard is MTCA Method A; b = cleanup standard is MTCA Method B; c = a suite of 44 volatile organic compounds were evaluated in the VOC test, but only the detected chemicals are provided in Table 1.

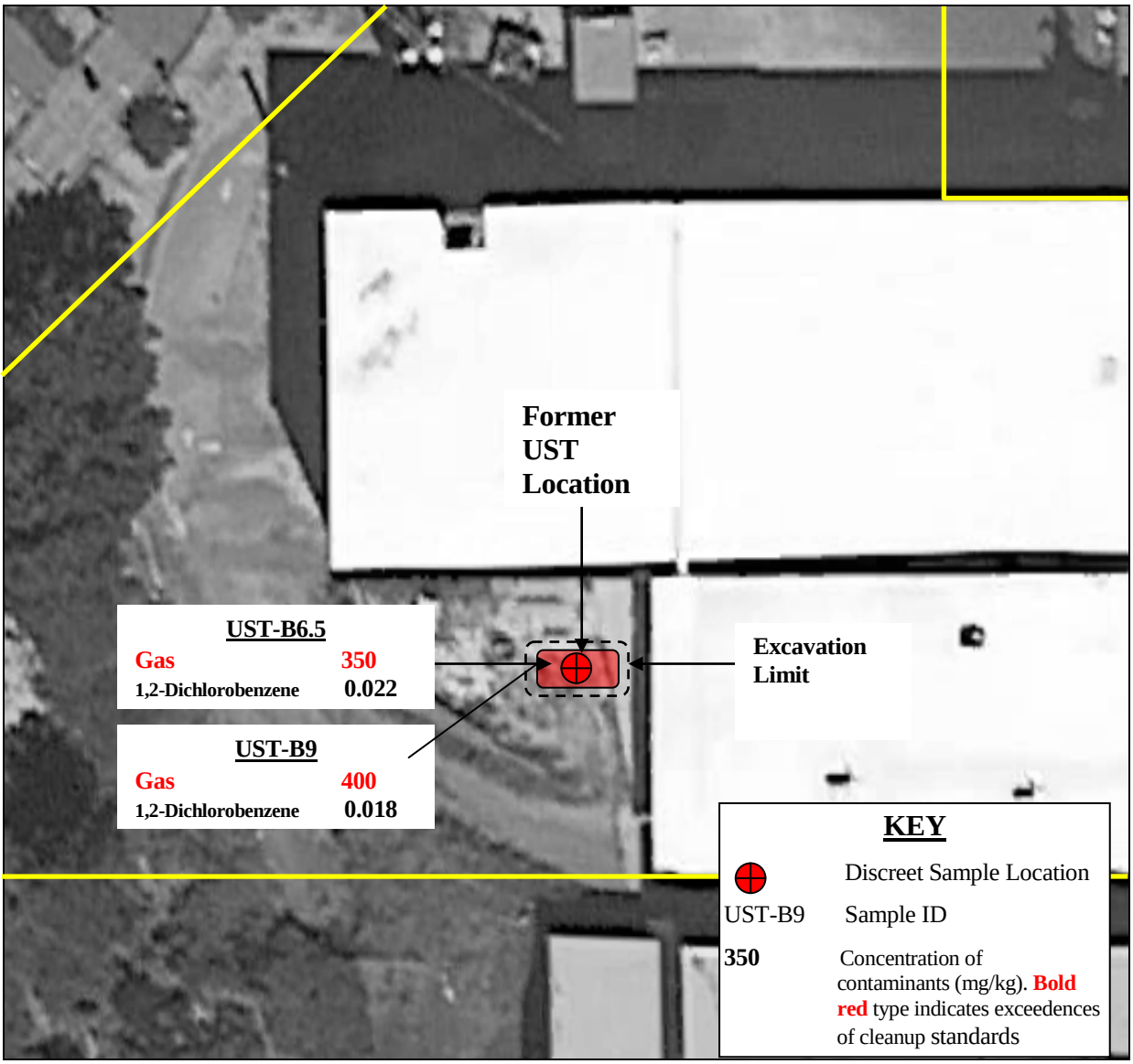



**Figure 5.** Soil Sample Locations

The sample results indicate that the concentration of gasoline in the soil beneath the UST exceeds the MTCA Method A cleanup standard. The impacted soil was visible along all four sidewalls of the excavation and extends below nine foot depth, based upon the sampling results.

No other petroleum products were detected in the samples. The results for halogenated volatile organic compounds (suite of 44 compounds) had detection of 1,2-dichlorobenzene in both samples. The concentrations of 1,2-dichlororbenzene was well below the state cleanup standard. No other volatile organic compounds were detected in the soil, at concentrations above the reporting limits.

The reporting limits documented by the laboratory were all below the cleanup standards and the laboratory quality assurance was appropriate, such that the results are representative of the soil conditions and can be directly compared to the cleanup standards.

## Hazardous Waste Characterization

Clean Harbors was hired to remove and properly dispose of the approximately 300-gallons of product/fluid that had been removed from the UST. Clean Harbors conducted testing of the fluid through Spectra Laboratories. Numerous compounds were detected in the UST liquid including 1,2,4-trimethylbenzene, 1,3,4-trimethylbenzene,4-isopropyltoluene, ethylbenzene, isopropylbenzene, naphthalene, tetrachloroethene, toluene, xylenes, trichloroethene, vinyl chloride, cis-1,2-dichloroethene, n-buthylbenzene, n-propylbenzene, sec-butylebenzene, and tert-butylebenzene. A flashpoint for the material was identified at 109 $^{o}$F. A copy of the laboratory report for the UST liquid is provided in Appendix II.

Based upon the laboratory results, the material was classified as D001- ignitable and required the site to get a hazardous waste generator identification for disposal.

The hazardous waste characterization did not identify the exact product in the site's UST; however based upon the presence of gasoline-range petroleum in the soil samples and the presence of volatile organic compounds in the tank product, we suspect that the tank was used to store Stoddard solvent, a liquid used in dry cleaning operations.

## Hazardous Waste Generator Identification

The former Cascade Laundry facility submitted a *Dangerous Waste Site Identification Form* to Department of Ecology's applied to get a hazardous waste identification number. Based upon the weight of the approximately 300-gallons of liquid needed for disposal, the site was registered as a large quantity generator. Large quantity generator status is given to sites where greater than 2,000 pounds of waste is disposed of per month (or at one time).

The Cascade Laundry site was given a RCRA Site identification of WAH000054560.

Based upon the site's RCRA listing, an annual report is required.

## Hazardous Waste Disposal

Clean Harbors removed six 55-gallon drums of ignitable liquid from the Cascade Laundry site. The material was removed from the site and delivered to Emerald Services Inc in Tacoma, Washington. The material was removed on approximately April 19, 2018; however the date on the manifest was not clearly written. The non-hazardous waste manifest and Clean Harbors Manifest Addendum are provided in Appendix II.

## Conclusions

Based on our results of the sampling and our observations of soil conditions, a release has taken place from the approximately 600-gallon UST. Gasoline-range petroleum as detected above the state cleanup standards in the soil located at six and nine feet below the ground surface, beneath the tank. The extent of the soil impacts was not determined during this investigation.

The discovery of the release was reported to Department of Ecology on November 8, 2017. The Cascade Laundry site remains on Ecology's Confirmed and Suspected Contaminated Sites List.

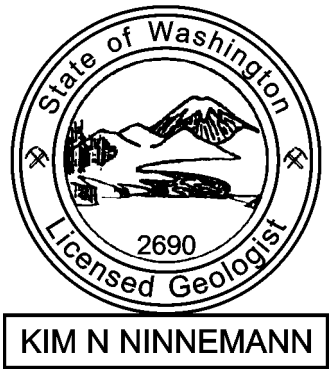
We appreciate the opportunity to be of service to you. Should you have any questions concerning this report, please contact our office at (360) 714-9409.

Sincerely yours,

Stratum Group

Kim Ninnemann

Kim Ninnemann, B.S., L.G.
Licensed Geologist
UST Site Assessor ICC32025567




**APPENDIX I**

Permanent Closure Notice Form
UST Site Check/Site Assessment Checklist
Laboratory Report (soil samples)
Laboratory Report (UST product)
Liquid Disposal Manifests

DEPARTMENT OF ECOLOGY
State of Washington

# PERMANENT CLOSURE NOTICE
## FOR UNDERGROUND STORAGE TANKS

*This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.*

UST ID #: ~~5078~~ 5617

County: Whatcom

| I. UST FACILITY | | II. OWNER/OPERATOR INFORMATION | |
|---|---|---|---|
| Facility Compliance Tag #: | | Owner/Operator Name: | Sonja Max |
| UST ID #: | 5617 | Business Name: | Eco Bloom LLC |
| Site Name: | Cascade Laundry | Address: | 914 12th Street |
| Site Address: | 205 Prospect Street | City: Bellingham | State: WA Zip: 98225 |
| City: | Bellingham, Washington 98225 | Phone: | 360-331-0348 |
| Phone: | | Email: | sonjamx@gmail.com |

| III. CERTIFIED UST DECOMMISSIONER | | | |
|---|---|---|---|
| Company Name: | Drakes Tanks | Service Provider Name: | Erik Drake |
| Address: | 3083 Ash Way | Certification Type: | UST Decommissioning |
| City: ~~Ferndale~~ Sedro Woolley | State: WA Zip: ~~98248~~ 98284 | Cert. No.: | 8562591 Exp. Date: 11/4/2018 |
| Provider Phone: | 360-223-7865 | Provider Email: | drakestanks@gmail.com |
| ***Provider Signature:*** | | ***Date:*** | 10/12/17 |

## IV. TANK INFORMATION

| TANK ID | TANK CAPACITY | LAST SUBSTANCE STORED | CLOSURE METHOD | | | CLOSURE DATE |
|---|---|---|---|---|---|---|
| | | | removal | closed-in-place | change-in-service | |
| | 600 | gas-range solvent | ☒ | ☐ | ☐ | 10-12-2017 |
| | | | ☐ | ☐ | ☐ | |
| | | | ☐ | ☐ | ☐ | |
| | | | ☐ | ☐ | ☐ | |
| | | | ☐ | ☐ | ☐ | |
| | | | ☐ | ☐ | ☐ | |

## V. REQUIRED SIGNATURE

*Signature acknowledges UST(s) comply with UST regulation WAC 173-360-380 Permanent Closure Requirements.*

| Date | Signature of Tank Owner/Operator or Authorized Representative | Print or Type Name |
|---|---|---|
| 10/12/17 | Sonja Max | Sonja Max |

ECY 020-94 (October 2015)

DEPARTMENT OF ECOLOGY
State of Washington

UST ID #: 5617
County: Whatcom

# SITE CHECK/SITE ASSESSMENT CHECKLIST
## FOR UNDERGROUND STORAGE TANKS

*This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.*

| I. UST FACILITY | | II. OWNER/OPERATOR INFORMATION | |
|---|---|---|---|
| Facility Compliance Tag #: | | Owner/Operator Name: | Sonja Max |
| UST ID #: | 5617 | Business Name: | EcoBloom LLC |
| Site Name: | Cascade Laundry | Address: | 914 12th Street |
| Site Address: | 205 Propect | City: | Bellingham State: WA Zip: 98225 |
| City: | Bellingham, Washington 98225 | Phone: | 206-331-0348 |
| Phone: | | Email: | sonjamx@gmail.com |

| III. CERTIFIED SITE ASSESSOR | | | |
|---|---|---|---|
| Service Provider Name: | Kim Ninnemann | Company Name: | Stratum Group |
| Cell Phone: 360-920-0468 | Email: kim@stratumgroup.net | Address: | PO Box 2546 |
| Certification #: ICC32025567 | Exp. Date: 1/17/19 | City: Bellingham | State: WA Zip: 98227 |

### IV. TANK INFORMATION

| TANK ID | TANK CAPACITY | LAST SUBSTANCE STORED | DATE SITE CHECK OR ASSESSMENT CONDUCTED |
|---|---|---|---|
| | 600-gal | gas-range solvent | 10-12-2017 |
| | | | |
| | | | |
| | | | |
| | | | |

### V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)

- [x] Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).
- [ ] Release investigation following a failed tank and/or line tightness test.
- [ ] Release investigation following discovery of contaminated soil and/or groundwater.
- [ ] Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.
- [ ] UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).
- [ ] Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.
- [ ] Other (describe):

## VI. Checklist

| **The site assessor must check each of the following items and include it in the report. Sections referenced below can be found in the Ecology publication *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.** | YES | NO |
|---|---|---|
| 1. The location of the UST site is shown on a vicinity map. | ☒ | ☐ |
| 2. A brief summary of information obtained during the site inspection is provided (Section 3.2) | ☒ | ☐ |
| 3. A summary of UST system data is provided (Section 3.1) | ☒ | ☐ |
| 4. The soils characteristics at the UST site are described. (Section 5.2) | ☒ | ☐ |
| 5. Is there any apparent groundwater in the tank excavation? | ☐ | ☒ |
| 6. A brief description of the surrounding land use is provided. (Section 3.1) | ☒ | ☐ |
| 7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report. | ☒ | ☐ |
| 8. The following items are provided in one or more sketches: | | |
| • Location and ID number for all field samples collected | ☒ | ☐ |
| • If applicable, groundwater samples are distinguished from soil samples n/a | ☐ | ☐ |
| • Location of samples collected from stockpiled excavated soil n/a | ☐ | ☐ |
| • Tank and piping locations and limits of excavation pit | ☒ | ☐ |
| • Adjacent structures and streets | ☒ | ☐ |
| • Approximate locations of any on-site and nearby utilities n/a | ☐ | ☐ |
| 9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4) n/a | ☐ | ☐ |
| 10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded. | ☒ | ☐ |
| 11. Any factors that may have compromised the quality of the data or validity of the results are described. | ☒ | ☐ |
| 12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372. | ☒ | ☐ |

## VII. Required Signatures

*Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.*

| Kim Ninnemann | | 11/8/2017 |
|---|---|---|
| Print or Type Name | Signature of Certified Site Assessor | Date |

October 20, 2017

Ms. Kim Ninnemann
Stratum Group
P.O. Box 2546
Bellingham, WA 98227

Dear Ms. Ninnemann,

On October 16th, 2 samples were received by our laboratory and assigned our laboratory project number EV17100098. The project was identified as your Cascade Laundry. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Stratum Group<br>P.O. Box 2546<br>Bellingham, WA 98227 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 10/20/2017<br>EV17100098<br>EV17100098-01 |
| CLIENT CONTACT: | Kim Ninnemann | DATE RECEIVED: | 10/16/2017 |
| CLIENT PROJECT: | Cascade Laundry | COLLECTION DATE: | 10/12/2017 11:40:00 AM |
| CLIENT SAMPLE ID | UST - B6.5 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| TPH-Volatile Range | NWTPH-GX | **350** | 60 | 20 | MG/KG | 10/17/2017 | SNC |
| TPH-Diesel Range | NWTPH-DX | U | 25 | 1 | MG/KG | 10/17/2017 | EBS |
| TPH-Oil Range | NWTPH-DX | U | 50 | 1 | MG/KG | 10/17/2017 | EBS |
| Dichlorodifluoromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Vinyl Chloride | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromomethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Methylene Chloride | EPA-8260 | U | 20 | 1 | UG/KG | 10/16/2017 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromochloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloroform | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Dibromomethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromodichloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Dibromochloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 5.0 | 1 | UG/KG | 10/16/2017 | DLC |
| Chlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromoform | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Stratum Group<br>P.O. Box 2546<br>Bellingham, WA 98227 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 10/20/2017<br>EV17100098<br>EV17100098-01 |
| CLIENT CONTACT: | Kim Ninnemann | DATE RECEIVED: | 10/16/2017 |
| CLIENT PROJECT: | Cascade Laundry | COLLECTION DATE: | 10/12/2017 11:40:00 AM |
| CLIENT SAMPLE ID | UST - B6.5 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | **22** | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 50 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| TFT 20X Dilution | NWTPH-GX | **55.8 SUR07** | 10/17/2017 | SNC |
| C25 | NWTPH-DX | **81.9** | 10/17/2017 | EBS |
| 1,2-Dichloroethane-d4 | EPA-8260 | **83.8** | 10/16/2017 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **126 GS1** | 10/16/2017 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.
SUR07 -The surrogate recoveries could not be determined due to dilution below the calibration range.
GS1 - Surrogate outside of control limits due to matrix effect.
The chromatogram indicates that it is likely that the sample contains Highly Weathered Kerosine or similar product.



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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Stratum Group<br>P.O. Box 2546<br>Bellingham, WA 98227 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 10/20/2017<br>EV17100098<br>EV17100098-02 |
| CLIENT CONTACT: | Kim Ninnemann | DATE RECEIVED: | 10/16/2017 |
| CLIENT PROJECT: | Cascade Laundry | COLLECTION DATE: | 10/12/2017 11:50:00 AM |
| CLIENT SAMPLE ID | UST - B9 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| TPH-Volatile Range | NWTPH-GX | **400** | 60 | 20 | MG/KG | 10/17/2017 | SNC |
| TPH-Diesel Range | NWTPH-DX | U | 25 | 1 | MG/KG | 10/17/2017 | EBS |
| TPH-Oil Range | NWTPH-DX | U | 50 | 1 | MG/KG | 10/17/2017 | EBS |
| Dichlorodifluoromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Vinyl Chloride | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromomethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Methylene Chloride | EPA-8260 | U | 20 | 1 | UG/KG | 10/16/2017 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromochloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Chloroform | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trichloroethene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Dibromomethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromodichloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,2-Trichloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Tetrachloroethylene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Dibromochloromethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | 5.0 | 1 | UG/KG | 10/16/2017 | DLC |
| Chlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromoform | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Bromobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |



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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Stratum Group<br>P.O. Box 2546<br>Bellingham, WA 98227 | DATE:<br>ALS JOB#:<br>ALS SAMPLE#: | 10/20/2017<br>EV17100098<br>EV17100098-02 |
| CLIENT CONTACT: | Kim Ninnemann | DATE RECEIVED: | 10/16/2017 |
| CLIENT PROJECT: | Cascade Laundry | COLLECTION DATE: | 10/12/2017 11:50:00 AM |
| CLIENT SAMPLE ID | UST - B9 | WDOE ACCREDITATION: | C601 |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|
| 4-Chlorotoluene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | **18** | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | 50 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | 10 | 1 | UG/KG | 10/16/2017 | DLC |

| SURROGATE | METHOD | %REC | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|
| TFT 20X Dilution | NWTPH-GX | **54.4 SUR07** | 10/17/2017 | SNC |
| C25 | NWTPH-DX | **84.4** | 10/17/2017 | EBS |
| 1,2-Dichloroethane-d4 | EPA-8260 | **88.5** | 10/16/2017 | DLC |
| 4-Bromofluorobenzene | EPA-8260 | **145 GS1** | 10/16/2017 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.
SUR07 -The surrogate recoveries could not be determined due to dilution below the calibration range.
GS1 - Surrogate outside of control limits due to matrix effect.
The chromatogram indicates that it is likely that the sample contains Highly Weathered Kerosine or similar product.



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## CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227
CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Cascade Laundry

DATE: 10/20/2017
ALS SDG#: EV17100098
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MBG-101017S - Batch 120826 - Soil by NWTPH-GX

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| TPH-Volatile Range | NWTPH-GX | U | MG/KG | 3.0 | 10/10/2017 | SNC |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-101617S - Batch 121025 - Soil by NWTPH-DX

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| TPH-Diesel Range | NWTPH-DX | U | MG/KG | 25 | 10/16/2017 | EBS |
| TPH-Oil Range | NWTPH-DX | U | MG/KG | 50 | 10/16/2017 | EBS |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-100917S - Batch 120822 - Soil by EPA-8260

| ANALYTE | METHOD | RESULTS | UNITS | REPORTING LIMITS | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Chloromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Vinyl Chloride | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Bromomethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Chloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Carbon Tetrachloride | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Trichlorofluoromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1-Dichloroethene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Methylene Chloride | EPA-8260 | U | UG/KG | 20 | 10/09/2017 | DLC |
| Trans-1,2-Dichloroethene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1-Dichloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Cis-1,2-Dichloroethene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 2,2-Dichloropropane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Bromochloromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Chloroform | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1,1-Trichloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1-Dichloropropene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2-Dichloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Trichloroethene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2-Dichloropropane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Dibromomethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Bromodichloromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Trans-1,3-Dichloropropene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Toluene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Cis-1,3-Dichloropropene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |



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## CERTIFICATE OF ANALYSIS

CLIENT: Stratum Group
P.O. Box 2546
Bellingham, WA 98227
CLIENT CONTACT: Kim Ninnemann
CLIENT PROJECT: Cascade Laundry

DATE: 10/20/2017
ALS SDG#: EV17100098
WDOE ACCREDITATION: C601

## LABORATORY BLANK RESULTS

### MB-100917S - Batch 120822 - Soil by EPA-8260

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,3-Dichloropropane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Tetrachloroethylene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Dibromochloromethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2-Dibromoethane | EPA-8260 | U | UG/KG | 5.0 | 10/09/2017 | DLC |
| Chlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1,1,2-Tetrachloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Bromoform | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,1,2,2-Tetrachloroethane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2,3-Trichloropropane | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Bromobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 2-Chlorotoluene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 4-Chlorotoluene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,3-Dichlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,4-Dichlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2-Dichlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2-Dibromo 3-Chloropropane | EPA-8260 | U | UG/KG | 50 | 10/09/2017 | DLC |
| 1,2,4-Trichlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| Hexachlorobutadiene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |
| 1,2,3-Trichlorobenzene | EPA-8260 | U | UG/KG | 10 | 10/09/2017 | DLC |

U - Analyte analyzed for but not detected at level above reporting limit.



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## CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| CLIENT: | Stratum Group<br>P.O. Box 2546<br>Bellingham, WA 98227 | DATE: | 10/20/2017 |
| | | ALS SDG#: | EV17100098 |
| | | WDOE ACCREDITATION: | C601 |
| CLIENT CONTACT: | Kim Ninnemann | | |
| CLIENT PROJECT: | Cascade Laundry | | |

## LABORATORY CONTROL SAMPLE RESULTS

### ALS Test Batch ID: 120826 - Soil by NWTPH-GX

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| TPH-Volatile Range - BS | NWTPH-GX | **106** | | | 66.5 | 122.7 | 10/10/2017 | SNC |
| TPH-Volatile Range - BSD | NWTPH-GX | **116** | **9** | | 66.5 | 122.7 | 10/10/2017 | SNC |

### ALS Test Batch ID: 121025 - Soil by NWTPH-DX

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| TPH-Diesel Range - BS | NWTPH-DX | **94.4** | | | 75.5 | 122.1 | 10/16/2017 | EBS |
| TPH-Diesel Range - BSD | NWTPH-DX | **103** | **9** | | 75.5 | 122.1 | 10/16/2017 | EBS |

### ALS Test Batch ID: 120822 - Soil by EPA-8260

| SPIKED COMPOUND | METHOD | %REC | RPD | QUAL | LIMITS MIN | LIMITS MAX | ANALYSIS DATE | ANALYSIS BY |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene - BS | EPA-8260 | **90.7** | | | 73 | 138 | 10/09/2017 | DLC |
| 1,1-Dichloroethene - BSD | EPA-8260 | **91.6** | **1** | | 73 | 138 | 10/09/2017 | DLC |
| Trichloroethene - BS | EPA-8260 | **93.5** | | | 75 | 136 | 10/09/2017 | DLC |
| Trichloroethene - BSD | EPA-8260 | **99.0** | **6** | | 75 | 136 | 10/09/2017 | DLC |
| Toluene - BS | EPA-8260 | **92.3** | | | 76 | 134 | 10/09/2017 | DLC |
| Toluene - BSD | EPA-8260 | **97.5** | **5** | | 76 | 134 | 10/09/2017 | DLC |
| Chlorobenzene - BS | EPA-8260 | **92.5** | | | 79 | 128 | 10/09/2017 | DLC |
| Chlorobenzene - BSD | EPA-8260 | **100** | **8** | | 79 | 128 | 10/09/2017 | DLC |

APPROVED BY

Laboratory Director



ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

**ALS Environmental**
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
(206) 292-9059 Seattle
(425) 356-2626 Fax
http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV171000098

Date 10/12/17 Page 1 of 1

| | |
|---|---|
| PROJECT ID: | Cascade Laundry |
| REPORT TO COMPANY: | Stratum Group |
| PROJECT MANAGER: | Kim Kinnemann |
| ADDRESS: | Po Box 2546 |
| | Bellingham, WA 98227 |
| PHONE: | 3607149402 FAX: — |
| P.O. NUMBER: | E-MAIL: kim@stratumgroup.net |
| INVOICE TO COMPANY: | |
| ATTENTION: | Same as above |
| ADDRESS: | |

ANALYSIS REQUESTED

| SAMPLE I.D. | DATE | TIME | TYPE | LAB# | NWTPH-HCID | NWTPH-DX | NWTPH-GX | BTEX by EPA-8021 | MTBE by EPA-8021 ☐ EPA-8260 ☐ | Halogenated Volatiles by EPA 8260 | Volatile Organic Compounds by EPA 8260 | EDB / EDC by EPA 8260 SIM (water) | EDB / EDC by EPA 8260 (soil) | Semivolatile Organic Compounds by EPA 8270 | Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM ☐ | PCB ☐ Pesticides ☐ by EPA 8081/8082 | Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐ | Metals Other (Specify) | TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐ | OTHER (Specify) | NUMBER OF CONTAINERS | RECEIVED IN GOOD CONDITION? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. UST-B6.5 | 10/12/17 | 11:40 | Soil | 1 | | X | X | | | X | | | | | | | | | | 4 | |
| 2. UST-B9 | ↓ | 11:50 | Soil | 2 | | X | X | | | X | | | | | | | | | | 4 | |
| 3. | | | | | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | | | | |

LABORATORY COPY

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Ralph Schwartz 10/16/17 1:10pm
   Received By: ALS 10/16/17 1:10
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify:

* Turnaround request less than standard may incur Rush Charges

**SPECTRA Laboratories** ...Where experience matters

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/12/2018

P.O.#: W170913704
Project: WL Repair
Client ID: #1
Sample Matrix: Liquid
Date Sampled:
Date Received: 11/20/2017
Spectra Project: 2017110582
Spectra Number: 1
Rush

Clean Harbors
26328 79th Ave S
Kent, WA 98032

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|---|---|---|---|---|---|---|---|
| Flashpoint (PMCC) | 109 | °F | ASTM D-93 | 2,2-Dichloropropane | <0.25 | mg/L | SW846 8260C |
| 1,1,1,2-Tetrachloroethane | <0.25 | mg/L | SW846 8260C | 2-Butanone (MEK) | <2.5 | mg/L | SW846 8260C |
| 1,1,1-Trichloroethane | <0.25 | mg/L | SW846 8260C | 2-Chlorotoluene | <0.25 | mg/L | SW846 8260C |
| 1,1,2,2-Tetrachloroethane | <0.25 | mg/L | SW846 8260C | 2-Hexanone (MBK) | <2.5 | mg/L | SW846 8260C |
| 1,1,2-Trichloroethane | <0.25 | mg/L | SW846 8260C | 4-Chlorotoluene | <0.25 | mg/L | SW846 8260C |
| 1,1-Dichloroethane | <0.25 | mg/L | SW846 8260C | 4-Isopropyltoluene | 8.45 | mg/L | SW846 8260C |
| 1,1-Dichloroethene | <0.25 | mg/L | SW846 8260C | 4-methyl-2-pentanone | <2.5 | mg/L | SW846 8260C |
| 1,1-Dichloropropene | <0.25 | mg/L | SW846 8260C | Acetone | <2.5 | mg/L | SW846 8260C |
| 1,2,3-Trichlorobenzene | <0.25 | mg/L | SW846 8260C | Acrolein | <2.5 | mg/L | SW846 8260C |
| 1,2,3-Trichloropropane | <0.25 | mg/L | SW846 8260C | Acrylonitrile | <2.5 | mg/L | SW846 8260C |
| 1,2,4-Trichlorobenzene | <0.25 | mg/L | SW846 8260C | Benzene | <0.25 | mg/L | SW846 8260C |
| 1,2,4-Trimethylbenzene | 263 | mg/L | SW846 8260C | Bromobenzene | <0.25 | mg/L | SW846 8260C |
| 1,2-Dibromo3Chloropropane | <2.5 | mg/L | SW846 8260C | Bromochloromethane | <0.25 | mg/L | SW846 8260C |
| 1,2-Dibromoethane (EDB) | <0.25 | mg/L | SW846 8260C | Bromodichloromethane | <0.25 | mg/L | SW846 8260C |
| 1,2-Dichlorobenzene | <0.25 | mg/L | SW846 8260C | Bromoform | <0.25 | mg/L | SW846 8260C |
| 1,2-Dichloroethane | <0.25 | mg/L | SW846 8260C | Bromomethane | <0.25 | mg/L | SW846 8260C |
| 1,2-Dichloropropane | <0.25 | mg/L | SW846 8260C | Carbon Tetrachloride | <0.25 | mg/L | SW846 8260C |
| 1,3,5-Trimethylbenzene | 101 | mg/L | SW846 8260C | Chlorobenzene | <0.25 | mg/L | SW846 8260C |
| 1,3-Dichlorobenzene | <0.25 | mg/L | SW846 8260C | Chlorodibromomethane | <0.25 | mg/L | SW846 8260C |
| 1,3-Dichloropropane | <0.25 | mg/L | SW846 8260C | Chloroethane | <0.25 | mg/L | SW846 8260C |
| 1,4-Dichlorobenzene | <0.25 | mg/L | SW846 8260C | Chloroform | <0.25 | mg/L | SW846 8260C |

*Surrogate is outside of limits due to co-elution in sample matrix.

| Surrogate | Recovery | Method |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | SW846 8260C |
| 4-Bromofluorobenzene | 175* | SW846 8260C |
| Dibromofluoromethane | 89 | SW846 8260C |
| Toluene-d8 | 91 | SW846 8260C |

SPECTRA LABORATORIES

Jeffrey Cooper, Laboratory Manager

a14/mkw

**SPECTRA** Laboratories ...Where experience matters

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

01/12/2018

P.O.#: W170913704
Project: WL Repair
Client ID: #1
Sample Matrix: Liquid
Date Sampled:
Date Received: 11/20/2017
Spectra Project: 2017110582
Spectra Number: 1
Rush

Clean Harbors
26328 79th Ave S
Kent, WA 98032

| Analyte | Result | Units | Method | Analyte | Result | Units | Method |
|---|---|---|---|---|---|---|---|
| Chloromethane | <0.25 | mg/L | SW846 8260C | sec-Butylbenzene | 21.5 | mg/L | SW846 8260C |
| Dibromomethane | <0.25 | mg/L | SW846 8260C | tert-Butylbenzene | 1.98 | mg/L | SW846 8260C |
| Dichlorodifluoromethane | <0.25 | mg/L | SW846 8260C | trans-1,2-Dichloroethene | <0.25 | mg/L | SW846 8260C |
| Ethylbenzene | 4.01 | mg/L | SW846 8260C | trans-1,3-Dichloropropene | <0.25 | mg/L | SW846 8260C |
| Hexachlorobutadiene | <0.25 | mg/L | SW846 8260C | | | | |
| Isopropylbenzene | 12.1 | mg/L | SW846 8260C | | | | |
| Methyl-tert-Butyl Ether | <0.25 | mg/L | SW846 8260C | | | | |
| Methylene chloride | <1 | mg/L | SW846 8260C | | | | |
| Naphthalene | 32.2 | mg/L | SW846 8260C | | | | |
| Styrene | <0.25 | mg/L | SW846 8260C | | | | |
| Tetrachloroethene | 1.52 | mg/L | SW846 8260C | | | | |
| Toluene | 1.81 | mg/L | SW846 8260C | | | | |
| Total Xylenes | 61.7 | mg/L | SW846 8260C | | | | |
| Trichloroethene | 7.24 | mg/L | SW846 8260C | | | | |
| Trichlorofluoromethane | <0.25 | mg/L | SW846 8260C | | | | |
| Vinyl Acetate | <2.5 | mg/L | SW846 8260C | | | | |
| Vinyl chloride | 0.357 | mg/L | SW846 8260C | | | | |
| cis-1,2-Dichloroethene | 69.4 | mg/L | SW846 8260C | | | | |
| cis-1,3-Dichloropropene | <0.25 | mg/L | SW846 8260C | | | | |
| n-Butylbenzene | 13.3 | mg/L | SW846 8260C | | | | |
| n-Propylbenzene | 27 | mg/L | SW846 8260C | | | | |

*Surrogate is outside of limits due to co-elution in sample matrix.

| Surrogate | Recovery | Method |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | SW846 8260C |
| 4-Bromofluorobenzene | 175* | SW846 8260C |
| Dibromofluoromethane | 89 | SW846 8260C |
| Toluene-d8 | 91 | SW846 8260C |

SPECTRA LABORATORIES

Jeffrey Cooper, Laboratory Manager

a14/mkw

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

DI 1801984885

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. WAH000054560

Manifest Document No. 984995

2. Page 1 of 1

3. Generator's Name and Mailing Address
Cascade Laundry - 205 Prospect St Bellingham WA
959 W Laurel Rd
Ferndale WA 98248

205 Prospect St,
Bellingham WA 98225

4. Generator's Phone ( )

5. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc

6. US EPA ID Number
MAD039322250

A. State Transporter's ID

B. Transporter 1 Phone (781) 792-5000

7. Transporter 2 Company Name
Emerald Services, Inc

8. US EPA ID Number
WAD068364647

C. State Transporter's ID

D. Transporter 2 Phone (206) 832-3200

9. Designated Facility Name and Site Address
Emerald Services, Inc
1825 Alexander Avenue
Tacoma, WA 98421

10. US EPA ID Number
WAD981769110

E. State Facility's ID

F. Facility's Phone
(206) 832-3200

| 11. WASTE DESCRIPTION | Containers No. | Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. UN1993, FLAMMABLE LIQUIDS, N.O.S., (1,2,4-TRIMETHYLBENZENE, PETROLEUM DISTILLATES), 3, PG III | 006 | DM | 660 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additional Descriptions for Materials Listed Above
11a.CH1596925 ERGM128 6X55

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE # (800) 483-5711
GENERATOR: Cascade Laundry - 205 Prospect St Bellingham WA

**GENERATOR**

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

| Printed/Typed Name | Signature | Date: Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date: Month | Day | Year |
|---|---|---|---|---|
| Charles M Cole | | 7 | 1 | 14 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Date: Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

| Printed/Typed Name | Signature | Date: Month | Day | Year |
|---|---|---|---|---|
| | | | | |

NON-HAZARDOUS WASTE

# Clean Harbors Manifest Addendum



| Generator ID Number: | | Sales Order Number: |
|---|---|---|
| W A H 0 0 0 0 5 4 5 6 0 | 984885 | 1801984885 |

Cascade Laundry - 205 Prospect St Bellingham WA
205 Prospect St,
Bellingham, WA98225

| Line #: | Profile No: | Profile Description: | Waste Codes: |
|---|---|---|---|
| 11a | CH1596925 | SOLVENT WASTE | |

| CH Container # | Customer Container # |
|---|---|
| C000000002 | |
| C000000003 | |
| C000000004 | |
| C000000005 | |
| C000000006 | |
| C000000007 | |