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SUB-SLAB SUPPLEMENTARY SITE INVESTIGATION
FORMER NORGE LAUNDRY AND CLEANING VILLAGE
2915 S. MERIDIAN STREET, INDIANAPOLIS, INDIANA
VRP NO. 6130102
KERAMIDA PROJECT NO. 16948

Submitted for: **D&E ENTERPRISES, INCORPORATED**
c/o Spalding & Hilmes, PC
338 South Arlington Avenue
Indianapolis, IN 46219-9020

Submitted by: **KERAMIDA INC.**
401 North College Avenue
Indianapolis, Indiana 46202
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Senior Engineer

December 7, 2016

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Attachment 2: Photographs & Sketches (Bloodhound & KERAMIDA)

Attachment 3: Soil Boring Logs

Attachment 4: Laboratory Analytical Report

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1.0 INTRODUCTION

KERAMIDA Inc. (KERAMIDA) completed a Sub-Slab Supplementary Site Investigation (SSI) at the former Norge Laundry & Cleaning Village property (the Site) located at 2915 S. Meridian Street, Indianapolis, Indiana. The performance of the Sub-Slab SSI was approved by Spalding and Hilmes, PC on behalf of D&E Enterprises, Incorporated (the Client). The scope of the Sub-Slab SSI was based on the need to evaluate the area under the building, subsequent to the building's vacancy. To investigate the portion of the source area assumed to be under the former Norge building slab, as opposed to the portion adjacent to the building which has already been assessed, KERAMIDA proposed to perform a sub-slab SSI to characterize the shallow soils and groundwater beneath the building and determine the potential need for future supplemental chemical injections under the building.

Figure 1 presents the Site location and surrounding area. Figure 2 depicts the Site and includes the soil boring/sample locations as well as identified subsurface public and private utilities.

2.0 FIELD METHODS

KERAMIDA performed the Sub-Slab SSI field activities on October 24-25, 2016. The field activities were conducted in accordance with KERAMIDA Standard Operating Procedures (SOPs). Copies of the SOPs are presented in Attachment 1.

2.1 PRE-SAMPLING ACTIVITIES

Prior to the initiation of field activities, KERAMIDA requested that public utilities be marked by Indiana 811. In addition, KERAMIDA contracted with a private utility locator, Bloodhound Underground Utility Locators (Bloodhound), to clear private subsurface utilities at each boring location. Site safety meetings were performed at the beginning of all field activities. The Site photographs and sketches by Bloodhound are provided in Attachment 2.

2.2 GEOPHYSICAL SCAN

A geophysical investigation was performed by Bloodhound under the direct supervision of KERAMIDA field personnel to scan the subsurface of the entire property for the presence of private subsurface utilities and underground anomalies, including identification of all subsurface sewer lines and the respective line sizes. Storm sewers at the Site include an approximate 60-inch corrugated metal culvert used to convey Germania Creek which passes below the central portion of the building in an east-west orientation. The top of the corrugated metal culvert is approximately

two feet below grade within the building and the bottom of the culvert is approximately seven feet below the building floor. A generalized utility map depicting both private and public utilities is provided in Figure 2. The Site photographs and sketches by Bloodhound are provided in Attachment 2.

2.3 SOIL SAMPLING

The locations of the soil borings and selected chemical analysis were determined based on historical operations and the identification of potential source areas within the building. Final soil sample locations, depths, and sample rationale for each boring and analyses performed are summarized in Table 1.

KERAMIDA advanced a total of four direct push soil borings and three hand auger borings as part of the SSI. The direct push boring sampling was conducted on October 24, 2016 and the hand auger sampling on October 25, 2016. Each of the borings were installed inside the Site building, except for KB-3 which was installed in the exterior of the building adjacent to the northwest building corner. All direct push soil borings were advanced using a Geoprobe® 54LT track mounted percussive drill rig. The hand auger borings were advanced using an AMS hand auger sampler. The soil borings were completed by KERAMIDA under the direct supervision of Kristopher Orton, P.G., Project Manager/Geologist with KERAMIDA. The soil boring locations are depicted on Figure 2.

For the interior boring locations, the concrete floor was cored at each location. Concrete slab number and thickness varied between one slab (KB-1and HA-3) measuring four-inches thick to two separate slabs (in all other locations) measuring a total of eight to ten inches thick, around the former dry-cleaning machine area. Below the concrete slab at each location, subsurface material consisted of varying thicknesses of fill material consisting of moist, coarse sand and gravel underlain by silt from the ground surface to approximate depths of eight feet below ground surface (bgs).

One boring, KB-1, located inside the building was south of the 60-inch corrugated metal culvert passing below the building. While drilling KB-1 pea gravel encountered in the four to eight feet bgs sampling interval continuously caved into the open bore hole following removal of the macro core tooling from the ground. The eight to 12 foot sampling interval contained nearly three feet of pea gravel with one foot of silt. The 12 to 16 foot sampling interval was entirely pea gravel. As a result, the lithology for KB-1 could not be assessed and the boring was blind drilled from 16 to 20 feet bgs for groundwater sample collection.

Subsurface materials beneath the fill in all other locations (except KB-1) consisted of moist sand/silt, becoming moist silt/silty sand from four feet bgs to 13 feet bgs in most locations. Sand was encountered from 12 to 13 feet bgs to the boring terminus and contained intermittent zones of moist and saturated sand. A perched groundwater lens was encountered at KB-2 from

approximately 14 to 15 feet bgs. The static water table was encountered in each of the direct push borings at depths ranging from 16 to 16.5 feet bgs. Soil boring logs are provided in Attachment 3.

The direct push soil cores were collected and extracted at four feet intervals while the hand auger borings were collected continuously from the borings using an AMS hand auger sampler. The soil was retained from each location to obtain soil samples for soil texture identification, field screening, and laboratory analysis. Field screening activities included analysis with a photoionization detector (PID) and visual and olfactory inspections. Photographs of the direct push boring soil cores are provided in Attachment 2. Field screening results are noted in the soil boring logs provided in Attachment 3.

One soil sample was collected from each boring in accordance with KERAMIDA SOPs and Table 1. The KB-4 soil sample was collected from 1 to 2 feet bgs based on a higher PID response below the eight inches of concrete slab and an upper few inches of fill material encountered in the upper two feet of sub slab soil. All of the other interior soil samples were collected immediately below the concrete slab and reported as zero to one feet bgs. One duplicate sample was collected from KB-4 for quality control. The soil samples were collected directly into laboratory-supplied sample containers and immediately placed on ice. The samples were analyzed by Pace Analytical Services, Inc. (Pace), Indianapolis, Indiana.

Following soil and groundwater sampling activities, the boreholes were filled with hydrated bentonite chips in accordance with the amended Indiana Administrative Code (IAC) governing monitoring wells, 312 IAC 13-8-3 (IAC, 2011), and the IDEM Non-rule Policy Document (NPD), Drilling Procedures and Monitoring Well Construction Guidelines (IDEM, 2009).

2.4 GROUNDWATER SAMPLING

Groundwater samples were obtained from all four direct push borings (KB-1 through KB-4) on October 24, 2016. Based on the boring logs (Attachment 3), the groundwater samples were collected from saturated, fine to medium grained, well sorted (poorly graded) sand.

Based on the quarterly sampling of the Site groundwater monitoring network, groundwater flow is to the north/northwest. Depth to water was measured in each temporary monitoring well prior to sample collection using an electric water level meter and ranged from 16.85 feet to 17.05 feet bgs in borings KB-2 through KB-4. Due to sampling restrictions resulting from pea-gravel cave in, the sampling method in KB-1 was altered and the static water could not be measured.

The groundwater samples were collected from the top of the first productive water-bearing unit, through temporary piezometer-wells installed in borings KB-2 through KB-4. Temporary piezometers included ¾-inch poly-vinyl chloride (PVC) screens of five feet length and samples were collected using a mini-bailer in accordance with KERAMIDA's SOPs (Attachment 1). The groundwater sample from boring KB-1 was collected using Geoprobe SP-16 retractable stainless

steel tooling. The SP-16 tooling was advanced to 20 feet bgs and then retracted five feet allowing the internal screen to deploy which facilitated KB-1W sample collection via peristaltic pump using the US Environmental Protection Agency (EPA) SESDPROC – 301-R3 "soda straw" method (USEPA, 2013).

The temporary piezometer-wells were screened across the top of the first productive water-bearing unit. All samples were collected directly into laboratory supplied containers. All groundwater samples were submitted through proper chain-of-custody procedures to Pace for analysis.

3.0 RESULTS

3.1 SOIL ANALYTICAL RESULTS

A total of eight soil samples (including one duplicate sample), were collected from the four direct push soil borings and three hand auger borings for analysis as identified on Table 1. The soil analytical results as compared to the IDEM Remediation Closure Guide (RCG) Screening Levels (SLs) are summarized in Table 2 and shown on Figure 3. All soil analytical results are based on dry weight. The laboratory analytical reports are included in Attachment 4.

Tetrachloroethene (PCE) was detected in every soil sample. The PCE concentrations in soil ranged between 0.17 to 21.4 milligrams per kilogram (mg/kg). Results from all soil sample locations for PCE are above the IDEM RCG soil migration to groundwater SL of 0.045 mg/kg, but below the IDEM RCG residential, commercial/industrial and excavation worker direct contact SLs), as summarized in Table 2 and depicted on Figure 3. Trichloroethene (TCE), a PCE degradation product, was only detected in the soil sample collected from boring KB-1 (0-1'), and was below the IDEM RCG SLs.

3.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from the four direct push soil borings/temporary piezometers (KB-1 through KB-4) on October 24, 2016 for analysis as identified on Table 1. The groundwater analytical results as compared to the IDEM RCG SLs are summarized in Table 3 and depicted on Figure 4.

PCE was detected in every groundwater sample. The concentrations of PCE in groundwater ranged from 554 to 1,370 micrograms per liter (µg/L). The PCE results from all sample locations are above the IDEM RCG groundwater to vapor exposure SLs (residential 110 µg/L and commercial/industrial 470 µg/L) and the tap water SL of 5 µg/L.

TCE was detected in every groundwater sample at concentrations ranging from 7.4 and 20.6 µg/L. Results from samples collected from locations KB-1 and KB-4 are above the IDEM RCG TCE residential tap water SL of 5 µg/L, but below the IDEM RCG vapor exposure SLs. The results of samples collected from KB-2 and KB-3 are above the IDEM RCG residential tap water SL and the

residential groundwater to vapor intrusion exposure SL of 9.1 μg/L, but below the IDEM RCG commercial/industrial groundwater to vapor exposure SL of 38 μg/L.

4.0 CONCLUSIONS & RECOMMENDATIONS

Soil

Soil sampling results indicate that cVOCs impacts exist below the building concrete slab (0-2 feet bgs); however, concentrations do not exceed IDEM RCG residential, commercial/industrial or excavation worker direct contact SLs. Concentrations of PCE are in excess of the IDEM RCG migration to groundwater SL in each sample location as listed on Table 2. PCE concentrations are highest in the former dry cleaning machines area (KB-2 and KB-4).

The shallow soils at the Site are not saturated nor are they within the vicinity of the groundwater table (15-17 feet bgs). Without a mechanism to transport cVOCs or a continuing source, the concern for downward migration of cVOCs from the sub-slab material to the groundwater table is low. The sub-slab soil cVOC concentrations are likely a contributing factor to the historical sub-slab/ indoor air results.

Groundwater

PCE, and to a lesser extent TCE, were detected in every groundwater sample submitted for laboratory analysis at concentrations above the IDEM RCG residential tap water SLs. Concentrations of PCE are above the IDEM RCG groundwater to vapor exposure SLs (residential and commercial/industrial) for each sampling location. The concentrations of both PCE and TCE are highest at boring locations KB-2 and KB-4 (former dry cleaner machine area) and consistent with impacts identified in proximate monitoring wells MW-1, MW-9 and MW-28. The groundwater cVOCs concentrations are likely a contributing factor to the historical sub-slab/indoor air results.

Recommendations

Based on the reported elevated concentrations of cVOCs in groundwater below the former Norge building, the injection of ERD into the underlying groundwater (from the interior of the building) is recommended. Further, based on the results of quarterly groundwater sampling around the building exterior (MW-1/ MW-9/ MW-28) a supplemental exterior injection is recommended directly downgradient from and in the vicinity of the Site building. Based on the reported concentration of cVOCs below the building footprint, it is recommended that some hot-spot treatment of the sub slab material be performed in the area where the dry cleaning machines were located. Following remediation implementation, confirmation indoor air sampling should be performed to demonstrate that vapors are not migrating through the slab and the indoor air space is appropriate for commercial/industrial use. These recommendations are subject to future determinations of cost-effectiveness relating to the scope and timing of the recommended work.

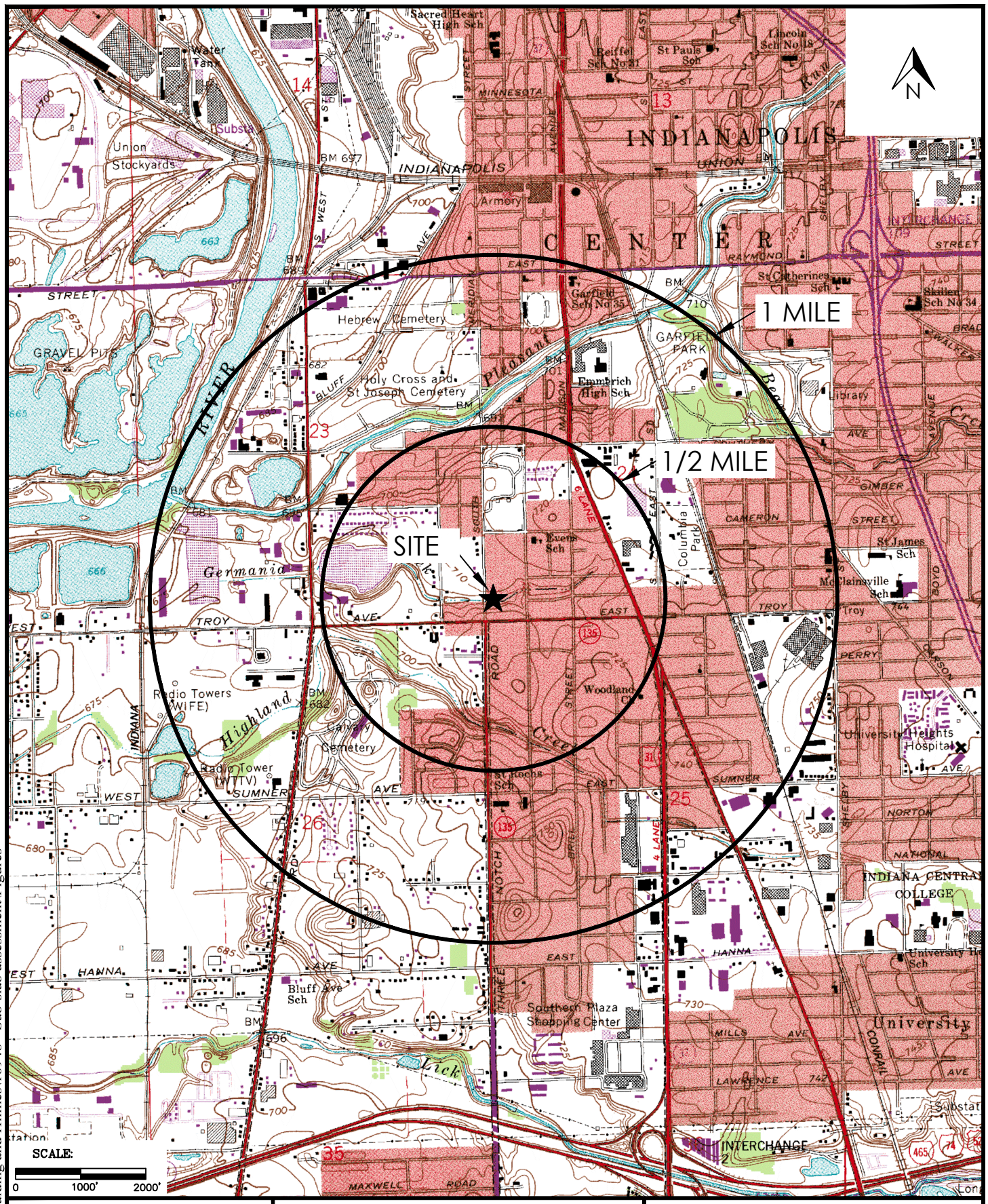
5.0 REFERENCES

IAC, 2011. Indiana Administrative Code (IAC) governing monitoring wells, 312 IAC 13-8-3, dated May 20, 2011.

IDEM, 2009. IDEM Non-rule Policy Document (NPD), Drilling Procedures and Monitoring Well Construction Guidelines, dated March 17, 2009.

USEPA, 2013. United States Environmental Protection Agency (USEPA) Region 4 – Science and Ecosystem Support Division. *Groundwater Sampling, Operating Procedure*. Document No. SESDPROC-301-R3. Athens, GA. March 6, 2013.

FIGURES



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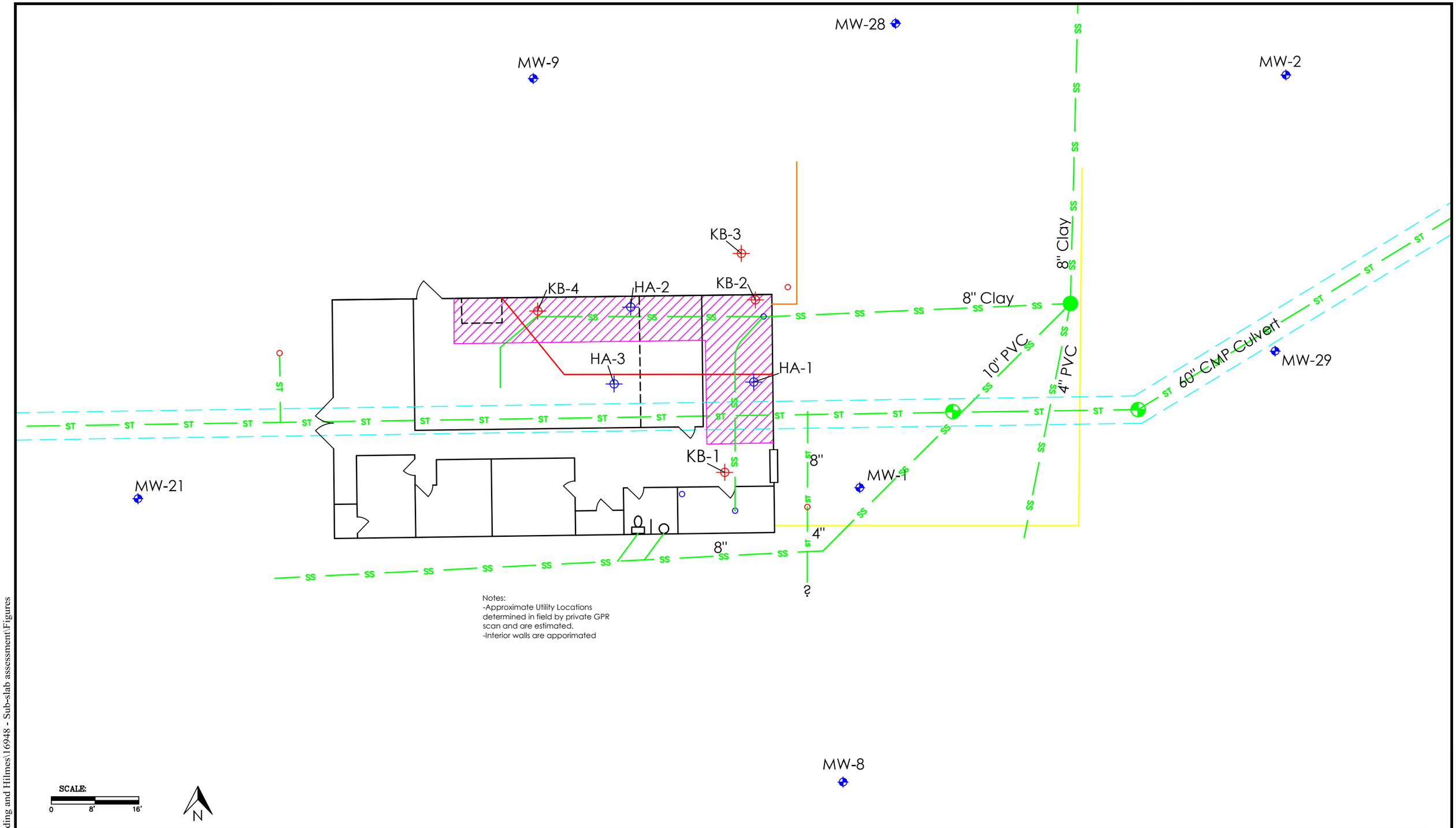
Project: Former Norge Laundry & Cleaning Village
2915 S. Meridian Street
Indianapolis, Indiana

	Drawn By: J. Johnson
Project Number: 16948	Approved By: KO
Date: November 10, 2016	File No. 15953_Ph2

Figure 1

Site Vicinity Map



LEGEND

- Approximate Layout
- Germania Creek CMP Culvert Limits
- Hand Auger Location
- Soil Boring Location
- Former Dry Cleaner Machine Location (Approx.)
- Elevated Riser/Stage
- Sanitary Sewer Line
- Storm Sewer Line
- Storm Sewer Manhole
- Monitoring Well
- Catch Basin
- Floor Drain
- Sanitary Sewer Manhole
- Water Line
- Communications Line
- Underground Electric Line
- Gas Line

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Project: Former Norge Building 2915 S. Meridian St. Indianapolis, IN	
	Drawn By: J. Johnson
Project Number: 16948	Approved By: MD
Date: November 10, 2016	File No. 16948_SSI

Figure 2

Site Map

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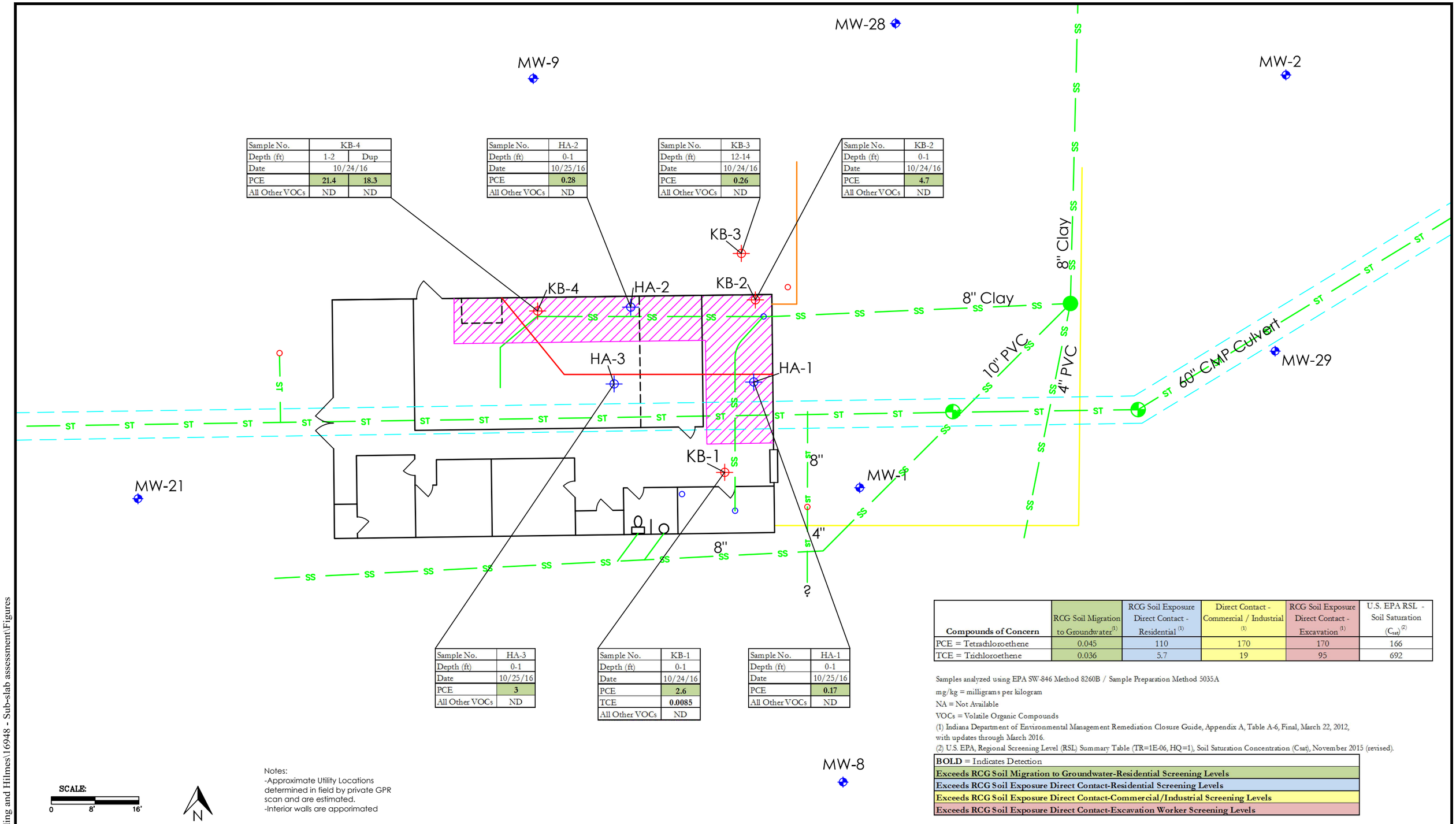

Sample No.	KB-4	
Depth (ft)	1-2	Dup
Date	10/24/16	
PCE	**21.4**	**18.3**
All Other VOCs	ND	ND

Sample No.	HA-2
Depth (ft)	0-1
Date	10/25/16
PCE	**0.28**
All Other VOCs	ND

Sample No.	KB-3
Depth (ft)	12-14
Date	10/24/16
PCE	**0.26**
All Other VOCs	ND

Sample No.	KB-2
Depth (ft)	0-1
Date	10/24/16
PCE	**4.7**
All Other VOCs	ND

Sample No.	HA-3
Depth (ft)	0-1
Date	10/25/16
PCE	**3**
All Other VOCs	ND

Sample No.	KB-1
Depth (ft)	0-1
Date	10/24/16
PCE	**2.6**
TCE	**0.0085**
All Other VOCs	ND

Sample No.	HA-1
Depth (ft)	0-1
Date	10/25/16
PCE	**0.17**
All Other VOCs	ND

Compounds of Concern	RCG Soil Migration to Groundwater (1)	RCG Soil Exposure Direct Contact - Residential (1)	Direct Contact - Commercial / Industrial (1)	RCG Soil Exposure Direct Contact - Excavation (1)	U.S. EPA RSL - Soil Saturation (C_{sat}) (2)
PCE = Tetrachloroethene	0.045	110	170	170	166
TCE = Trichloroethene	0.036	5.7	19	95	692

Samples analyzed using EPA SW-846 Method 8260B / Sample Preparation Method 5035A
mg/kg = milligrams per kilogram
NA = Not Available
VOCs = Volatile Organic Compounds
(1) Indiana Department of Environmental Management Remediation Closure Guide, Appendix A, Table A-6, Final, March 22, 2012, with updates through March 2016.
(2) U.S. EPA, Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1), Soil Saturation Concentration (Csat), November 2015 (revised).

BOLD = Indicates Detection
Exceeds RCG Soil Migration to Groundwater-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Commercial/Industrial Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Excavation Worker Screening Levels

Notes:
-Approximate Utility Locations determined in field by private GPR scan and are estimated.
-Interior walls are apporimated

LEGEND

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Project: Former Norge Building
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Indianapolis, IN

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File No. 16948_SSI

Figure 3

Soil Analytical Results Map (mg/kg)

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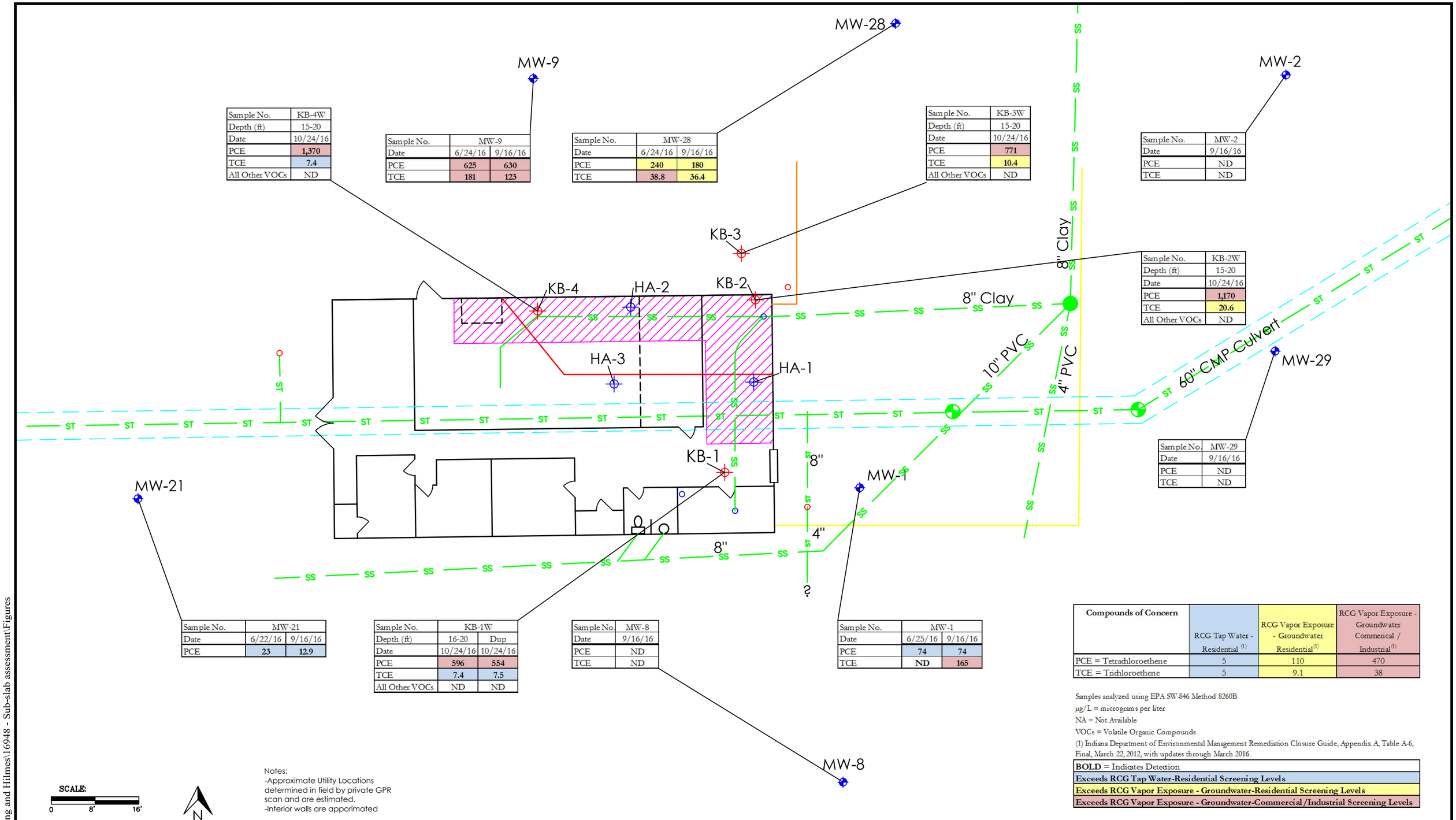

Sample No.	KB-4W
Depth (ft)	15-20
Date	10/24/16
PCE	**1,370**
TCE	**7.4**
All Other VOCs	ND

Sample No.	MW-9	
Date	6/24/16	9/16/16
PCE	**625**	**630**
TCE	**181**	**123**

Sample No.	MW-28	
Date	6/24/16	9/16/16
PCE	**240**	**180**
TCE	**38.8**	**36.4**

Sample No.	KB-3W
Depth (ft)	15-20
Date	10/24/16
PCE	**771**
TCE	**10.4**
All Other VOCs	ND

Sample No.	MW-2
Date	9/16/16
PCE	ND
TCE	ND

Sample No.	KB-2W
Depth (ft)	15-20
Date	10/24/16
PCE	**1,170**
TCE	**20.6**
All Other VOCs	ND

Sample No.	MW-29
Date	9/16/16
PCE	ND
TCE	ND

Sample No.	MW-21	
Date	6/22/16	9/16/16
PCE	**23**	**12.9**

Sample No.	KB-1W	
Depth (ft)	16-20	Dup
Date	10/24/16	10/24/16
PCE	**596**	**554**
TCE	**7.4**	**7.5**
All Other VOCs	ND	ND

Sample No.	MW-8
Date	9/16/16
PCE	ND
TCE	ND

Sample No.	MW-1	
Date	6/25/16	9/16/16
PCE	**74**	**74**
TCE	**ND**	**165**

Compounds of Concern	RCG Tap Water - Residential (1)	RCG Vapor Exposure - Groundwater Residential (1)	RCG Vapor Exposure - Groundwater Commerical / Industrial (1)
PCE = Tetrachloroethene	5	110	470
TCE = Trichloroethene	5	9.1	38

Samples analyzed using EPA SW-846 Method 8260B
µg/L = micrograms per liter
NA = Not Available
VOCs = Volatile Organic Compounds
(1) Indiana Department of Environmental Management Remediation Closure Guide, Appendix A, Table A-6, Final, March 22, 2012, with updates through March 2016.

BOLD = Indicates Detection
Exceeds RCG Tap Water-Residential Screening Levels
Exceeds RCG Vapor Exposure - Groundwater-Residential Screening Levels
Exceeds RCG Vapor Exposure - Groundwater-Commercial /Industrial Screening Levels

SCALE: 0 8' 16'

N

Notes:
-Approximate Utility Locations determined in field by private GPR scan and are estimated.
-Interior walls are apporimated

LEGEND

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- Germania Creek CMP Culvert Limits
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Figure 4
Groundwater Analytical Results Map (µg/L)

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TABLES

Table 1
Sample Location Rationale
Sub-Slab Supplementary Site Investigation
Former Norge Laundry and Cleaning Village
2915 S. Meridian Street, Indianapolis, Indiana
KERAMIDA Project No. 16948

Boring ID	Location Rationale	Method	Final Depth (ft)	Soil			Groundwater		
				Sample Depth (ft)	Sampling Rationale	Lab Analyses	Sample Depth (ft)	Sampling Rationale	Lab Analyses
KB-1	SE building corner, south of dry cleaner machine area	Push-Probe	20	0 - 1	Sub-slab	VOCs	16-20**	First Encountered GW	VOCs
KB-2	NE building corner, former dry-cleaner machine area	Push-Probe	20	0 - 1	Sub-slab	VOCs	15-20	First Encountered GW	VOCs
KB-3	Outside bldg., north of former dry-cleaner machine area	Push-Probe	20	12-13	Field Observations	VOCs	15-20	First Encountered GW	VOCs
KB-4	North-center of bldg., former dry-cleaner machine area	Push-Probe	20	1 - 2	High PID sub-slab	VOCs	15-20	First Encountered GW	VOCs
HA-1	East-center of bldg., former dry-cleaner machine area	Hand-Auger	3	0 - 1	Sub-slab	VOCs	N/A		
HA-2	North-center of bldg.., former dry-cleaner machine area	Hand-Auger	3	0 to 1	Sub-slab	VOCs	N/A		
HA-3	Center of building	Hand-Auger	3	0 to 1	Sub-slab	VOCs	N/A		

** Sample collected using Geoprobe SP-16 tooling
ft = Feet
GW = Groundwater
HA = Hand Auger
KB = Keramida Boring
NA = Not Applicable
VOCs = Chlorinated Volatile Organic Compounds; U.S. EPA SW846 Method 8260B, preparation method 5035A for soil

Table 2
Soil VOC Analytical Results (mg/kg)
Former Norge Laundry and Cleaning Village
2915 S. Meridian Street
Indianapolis, Indiana
VRP No. 6130102
KERAMIDA Project No. 16498

Sample No.	RCG Soil Migration to Groundwater[1]	RCG Soil Exposure Direct Contact - Residential [1]	RCG Soil Exposure Direct Contact - Commercial / Industrial [1]	RCG Soil Exposure Direct Contact - Excavation [1]	U.S. EPA RSL - Soil Saturation (C_{sat})[2]	HA-1	HA-2	HA-3
Sample Depth (feet)						0-1	0-1	0-1
Date Sampled						10/25/2016	10/25/2016	10/25/2016
Lab Sample No.						50157392013	50157392014	50157392015
Acetone	57	85,000	100,000	100,000	114,000	<0.10	<0.094	<0.059
Acrolein	0.00017	0.2	0.6	3.4	22,700	<0.10	<0.094	<0.059
Acrylonitrile	0.0023	3.5	11	370	11,300	<0.10	<0.094	<0.059
Benzene	0.051	17	51	1,800	1,820	<0.0050	<0.0047	<0.0030
Bromobenzene	0.84	410	680	680	679	<0.0050	<0.0047	<0.0030
Bromochloromethane	0.41	210	630	3,500	4,040	<0.0050	<0.0047	<0.0030
Bromodichloromethane	0.43	4.1	13	930	931	<0.0050	<0.0047	<0.0030
Bromoform	0.42	270	860	920	915	<0.0050	<0.0047	<0.0030
Bromomethane (Methyl Bromide)	0.038	9.5	30	160	3,590	<0.0050	<0.0047	<0.0030
n-Butylbenzene	64	110	110	110	108	<0.0050	<0.0047	<0.0030
sec-Butylbenzene	120	150	150	150	145	<0.0050	<0.0047	<0.0030
tert-Butylbenzene	31	180	180	180	183	<0.0050	<0.0047	<0.0030
Carbon disulfide	4.8	740	740	740	738	<0.010	<0.0094	<0.0059
Carbon tetrachloride	0.039	9.1	29	460	458	<0.0050	<0.0047	<0.0030
Chlorobenzene	1.4	390	760	760	761	<0.0050	<0.0047	<0.0030
Chlorodibromomethane	0.43	120	390	800	802	<0.0050	<0.0047	<0.0030
Chloroethane (Ethyl Chloride)	120	2,100	2,100	2,100	2,120	<0.0050	<0.0047	<0.0030
Chloroform	0.44	4.5	14	1,900	2,540	<0.0050	<0.0047	<0.0030
Chloromethane (Methyl Chloride)	0.98	150	460	1,300	1,320	<0.0050	<0.0047	<0.0030
2-Chlorotoluene (o-)	4.7	910	910	910	907	<0.0050	<0.0047	<0.0030
4-Chlorotoluene (p-)	4.8	250	250	250	253	<0.0050	<0.0047	<0.0030
1,2-Dibromo-3-Chloropropane	0.0017	0.074	0.64	86	979	<0.010	<0.0094	<0.0059
1,2-Dibromoethane	0.00028	0.5	1.6	180	1,340	<0.0050	<0.0047	<0.0030
Dibromomethane (Methylene Bromide)	0.041	34	99	550	2,820	<0.0050	<0.0047	<0.0030
1,2-Dichlorobenzene	12	380	380	380	376	<0.0050	<0.0047	<0.0030
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	<0.0050	<0.0047	<0.0030
1,4-Dichlorobenzene	1.4	36	110	16,000	NA	<0.0050	<0.0047	<0.0030
Dichlorodifluoromethane	6	120	370	850	845	<0.0050	<0.0047	<0.0030
trans-1,4-Dichloro-2-butene	0.00012	0.1	0.32	44	760	<0.10	<0.094	<0.059
1,1-Dichloroethane	0.16	50	160	1,700	1,690	<0.0050	<0.0047	<0.0030
1,2-Dichloroethane	0.028	6.4	20	730	2,980	<0.0050	<0.0047	<0.0030
1,1-Dichloroethene	0.05	320	1,100	1,200	1,190	<0.0050	<0.0047	<0.0030
cis-1,2-Dichloroethene	0.41	220	2,300	2,400	2,370	<0.0050	<0.0047	<0.0030
trans-1,2-Dichloroethene	0.62	1,900	1,900	1,900	1,860	<0.0050	<0.0047	<0.0030
1,2-Dichloropropane	0.033	14	44	370	1,360	<0.0050	<0.0047	<0.0030
1,3-Dichloropropane	2.6	1,500	1,500	1,500	1,490	<0.0050	<0.0047	<0.0030
2,2-Dichloropropane	NA	NA	NA	NA	NA	<0.0050	<0.0047	<0.0030
1,1-Dichloropropene	NA	NA	NA	NA	NA	<0.0050	<0.0047	<0.0030
cis-1,3-Dichloropropene	0.034	25	82	1,600	1,570	<0.0050	<0.0047	<0.0030
trans-1,3-Dichloropropene	0.034	25	82	1,600	1,570	<0.0050	<0.0047	<0.0030
Ethylbenzene	16	81	250	480	480	<0.0050	<0.0047	<0.0030
Ethyl methacrylate	3	1,100	1,100	1,100	1,100	<0.10	<0.094	<0.059
2-Hexanone	0.18	280	1,300	3,300	3,280	<0.10	<0.094	<0.059
Hexachlorobutadiene	0.054	17	17	17	16.8	<0.0050	<0.0047	<0.0030
n-Hexane	210	140	140	140	141	<0.0050	<0.0047	<0.0030
Iodomethane	NA	NA	NA	NA	NA	<0.10	<0.094	<0.059
Isopropylbenzene (Cumene)	15	270	270	270	268	<0.0050	<0.0047	<0.0030
p-Isopropyltoluene	NA	NA	NA	NA	NA	<0.0050	<0.0047	<0.0030
Methylene chloride	0.025	490	3,200	3,300	3,320	<0.020	<0.019	<0.012
Methyl Ethyl Ketone (2-Butanone)	23	28,000	28,000	28,000	28,400	<0.025	<0.023	<0.015
Methyl tert-butyl ether (MTBE)	0.63	660	2,100	8,900	8,870	<0.0050	<0.0047	<0.0030
4-Methyl-2-pentanone (MIBK)	28	3,400	3,400	3,400	3,360	<0.025	<0.023	<0.015
1-Methylnapthalene	1.2	250	390	390	NA	<0.0050	<0.0047	<0.0030
2-Methylnapthalene	3.7	340	3,000	6,800	NA	<0.010	<0.0094	<0.0059
Naphthalene	0.11	53	170	3,100	NA	<0.010	<0.0094	<0.0059
n-Propylbenzene	25	260	260	260	264	<0.0050	<0.0047	<0.0030
Styrene	2.2	870	870	870	867	<0.0050	<0.0047	<0.0030
1,1,1,2-Tetrachloroethane	0.043	28	88	680	680	<0.0050	<0.0047	<0.0030
1,1,2,2-Tetrachloroethane	0.0059	8.4	27	1,900	1,900	<0.0050	<0.0047	<0.0030
Tetrachloroethene	0.045	110	170	170	166	**0.17**	**0.28**	**3**
Toluene	14	820	820	820	818	<0.0050	<0.0047	<0.0030
1,2,3-Trichlorobenzene	0.42	88	930	1,600	NA	<0.0050	<0.0047	<0.0030
1,2,4-Trichlorobenzene	4.1	81	260	400	404	<0.0050	<0.0047	<0.0030
1,1,1-Trichloroethane	1.4	640	640	640	640	<0.0050	<0.0047	<0.0030
1,1,2-Trichloroethane	0.032	2.1	6.3	35	2,160	<0.0050	<0.0047	<0.0030
Trichloroethene	0.036	5.7	19	95	692	<0.0050	<0.0047	<0.0030
Trichlorofluoromethane	66	1,200	1,200	1,200	1,230	<0.0050	<0.0047	<0.0030
1,2,3-Trichloropropane	0.000065	0.071	1.1	46	1,400	<0.0050	<0.0047	<0.0030
1,2,4-Trimethylbenzene	0.44	81	220	220	219	<0.0050	<0.0047	<0.0030
1,3,5-Trimethylbenzene	3.4	180	180	180	182	<0.0050	<0.0047	<0.0030
Vinyl acetate	1.7	1,300	2,800	2,800	2,750	<0.10	<0.094	<0.059
Vinyl chloride	0.014	0.83	17	1,300	3,920	<0.0050	<0.0047	<0.0030
Xylenes, Total	200	260	260	260	258	<0.010	<0.0094	<0.0059

Samples analyzed using EPA SW-846 Method 8260B / Sample Preparation Method 5035A

mg/kg = milligrams per kilogram

NA = Not Available

VOCs = Volatile Organic Compounds

(1) Indiana Department of Environmental Management Remediation Closure Guide, Appendix A, Table A-6, Final, March 22, 2012, with updates through March 2016.

(2) U.S. EPA, Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1), Soil Saturation Concentration (Csat), November 2015 (revised).

BOLD = Indicates Detection
Exceeds RCG Soil Migration to Groundwater-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Commercial/Industrial Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Excavation Worker Screening Levels

Table 2
Soil VOC Analytical Results (mg/kg)
Former Norge Laundry and Cleaning Village
2915 S. Meridian Street
Indianapolis, Indiana
VRP No. 6130102
KERAMIDA Project No. 16498

Sample No.	RCG Soil Migration to Groundwater[1]	RCG Soil Exposure Direct Contact - Residential [1]	RCG Soil Exposure Direct Contact - Commercial / Industrial [1]	RCG Soil Exposure Direct Contact - Excavation [1]	U.S. EPA RSL - Soil Saturation (C_{sat})[2]	KB-1	KB-2	KB-3	KB-4	KB-4 DUP
Sample Depth (feet)						0-1	0-1	12-14	1-2	1-2
Date Sampled						10/24/2016	10/24/2016	10/24/2016	10/24/2016	10/24/2016
Lab Sample No.						50157392008	50157392009	50157392010	50157392011	50157392012
Acetone	57	85,000	100,000	100,000	114,000	<0.089	<0.084	<0.091	<2.4	<3.0
Acrolein	0.00017	0.2	0.6	3.4	22,700	<0.089	<0.084	<0.091	<2.4	<3.0
Acrylonitrile	0.0023	3.5	11	370	11,300	<0.089	<0.084	<0.091	<2.4	<3.0
Benzene	0.051	17	51	1,800	1,820	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Bromobenzene	0.84	410	680	680	679	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Bromochloromethane	0.41	210	630	3,500	4,040	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Bromodichloromethane	0.43	4.1	13	930	931	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Bromoform	0.42	270	860	920	915	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Bromomethane (Methyl Bromide)	0.038	9.5	30	160	3,590	<0.0044	<0.0042	<0.0046	<0.12	<0.15
n-Butylbenzene	64	110	110	110	108	<0.0044	<0.0042	<0.0046	<0.12	<0.15
sec-Butylbenzene	120	150	150	150	145	<0.0044	<0.0042	<0.0046	<0.12	<0.15
tert-Butylbenzene	31	180	180	180	183	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Carbon disulfide	4.8	740	740	740	738	<0.0089	<0.0084	<0.0091	<0.24	<0.30
Carbon tetrachloride	0.039	9.1	29	460	458	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Chlorobenzene	1.4	390	760	760	761	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Chlorodibromomethane	0.43	120	390	800	802	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Chloroethane (Ethyl Chloride)	120	2,100	2,100	2,100	2,120	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Chloroform	0.44	4.5	14	1,900	2,540	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Chloromethane (Methyl Chloride)	0.98	150	460	1,300	1,320	<0.0044	<0.0042	<0.0046	<0.12	<0.15
2-Chlorotoluene (o-)	4.7	910	910	910	907	<0.0044	<0.0042	<0.0046	<0.12	<0.15
4-Chlorotoluene (p-)	4.8	250	250	250	253	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2-Dibromo-3-Chloropropane	0.0017	0.074	0.64	86	979	<0.0089	<0.0084	<0.0091	<0.24	<0.30
1,2-Dibromoethane	0.00028	0.5	1.6	180	1,340	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Dibromomethane (Methylene Bromide)	0.041	34	99	550	2,820	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2-Dichlorobenzene	12	380	380	380	376	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,4-Dichlorobenzene	1.4	36	110	16,000	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Dichlorodifluoromethane	6	120	370	850	845	<0.0044	<0.0042	<0.0046	<0.12	<0.15
trans-1,4-Dichloro-2-butene	0.00012	0.1	0.32	44	760	<0.089	<0.084	<0.091	<2.4	<3.0
1,1-Dichloroethane	0.16	50	160	1,700	1,690	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2-Dichloroethane	0.028	6.4	20	730	2,980	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1-Dichloroethene	0.05	320	1,100	1,200	1,190	<0.0044	<0.0042	<0.0046	<0.12	<0.15
cis-1,2-Dichloroethene	0.41	220	2,300	2,400	2,370	<0.0044	<0.0042	<0.0046	<0.12	<0.15
trans-1,2-Dichloroethene	0.62	1,900	1,900	1,900	1,860	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2-Dichloropropane	0.033	14	44	370	1,360	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,3-Dichloropropane	2.6	1,500	1,500	1,500	1,490	<0.0044	<0.0042	<0.0046	<0.12	<0.15
2,2-Dichloropropane	NA	NA	NA	NA	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1-Dichloropropene	NA	NA	NA	NA	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
cis-1,3-Dichloropropene	0.034	25	82	1,600	1,570	<0.0044	<0.0042	<0.0046	<0.12	<0.15
trans-1,3-Dichloropropene	0.034	25	82	1,600	1,570	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Ethylbenzene	16	81	250	480	480	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Ethyl methacrylate	3	1,100	1,100	1,100	1,100	<0.089	<0.084	<0.091	<2.4	<3.0
2-Hexanone	0.18	280	1,300	3,300	3,280	<0.089	<0.084	<0.091	<2.4	<3.0
Hexachlorobutadiene	0.054	17	17	17	16.8	<0.0044	<0.0042	<0.0046	<0.12	<0.15
n-Hexane	210	140	140	140	141	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Iodomethane	NA	NA	NA	NA	NA	<0.089	<0.084	<0.091	<2.4	<3.0
Isopropylbenzene (Cumene)	15	270	270	270	268	<0.0044	<0.0042	<0.0046	<0.12	<0.15
p-Isopropyltoluene	NA	NA	NA	NA	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Methylene chloride	0.025	490	3,200	3,300	3,320	<0.018	<0.017	<0.018	<0.47	<0.60
Methyl Ethyl Ketone (2-Butanone)	23	28,000	28,000	28,000	28,400	<0.022	<0.021	<0.023	<0.59	<0.75
Methyl tert-butyl ether (MTBE)	0.63	660	2,100	8,900	8,870	<0.0044	<0.0042	<0.0046	<0.12	<0.15
4-Methyl-2-pentanone (MIBK)	28	3,400	3,400	3,400	3,360	<0.022	<0.021	<0.023	<0.59	<0.75
1-Methylnapthalene	1.2	250	390	390	NA	<0.0044	<0.0042	<0.0048	<0.12	<0.15
2-Methylnapthalene	3.7	340	3,000	6,800	NA	<0.0089	<0.0084	<0.0091	<0.24	<0.30
Naphthalene	0.11	53	170	3,100	NA	<0.0089	<0.0084	<0.0097	<0.24	<0.30
n-Propylbenzene	25	260	260	260	264	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Styrene	2.2	870	870	870	867	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1,1,2-Tetrachloroethane	0.043	28	88	680	680	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1,2,2-Tetrachloroethane	0.0059	8.4	27	1,900	1,900	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Tetrachloroethene	0.045	110	170	170	166	**2.6**	**4.7**	**0.26**	**21.4**	**18.3**
Toluene	14	820	820	820	818	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2,3-Trichlorobenzene	0.42	88	930	1,600	NA	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2,4-Trichlorobenzene	4.1	81	260	400	404	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1,1-Trichloroethane	1.4	640	640	640	640	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,1,2-Trichloroethane	0.032	2.1	6.3	35	2,160	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Trichloroethene	0.036	5.7	19	95	692	**0.0085**	<0.0042	<0.0046	<0.12	<0.15
Trichlorofluoromethane	66	1,200	1,200	1,200	1,230	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2,3-Trichloropropane	0.000065	0.071	1.1	46	1,400	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,2,4-Trimethylbenzene	0.44	81	220	220	219	<0.0044	<0.0042	<0.0046	<0.12	<0.15
1,3,5-Trimethylbenzene	3.4	180	180	180	182	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Vinyl acetate	1.7	1,300	2,800	2,800	2,750	<0.089	<0.084	<0.091	<2.4	<3.0
Vinyl chloride	0.014	0.83	17	1,300	3,920	<0.0044	<0.0042	<0.0046	<0.12	<0.15
Xylenes, Total	200	260	260	260	258	<0.0089	<0.0084	<0.0091	<0.24	<0.30

Samples analyzed using EPA SW-846 Method 8260B / Sample Preparation Method 5035A

mg/kg = milligrams per kilogram

NA = Not Available

VOCs = Volatile Organic Compounds

(1) Indiana Department of Environmental Management Remediation Closure Guide, Appendix A, Table A-6, Final, March 22, 2012, with updates through March 2016.

(2) U.S. EPA, Regional Screening Level (RSL) Summary Table (TR=1E-06, HQ=1), Soil Saturation Concentration (Csat), November 2015 (revised).

BOLD = Indicates Detection
Exceeds RCG Soil Migration to Groundwater-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Residential Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Commercial/Industrial Screening Levels
Exceeds RCG Soil Exposure Direct Contact-Excavation Worker Screening Levels

Table 3
Groundwater VOC Analytical Results (µg/L)
Former Norge Laundry and Cleaning Village
2915 S. Meridian Street
Indianapolis, Indiana
VRP No. 6130102
KERAMIDA Project No. 16498

Sample No.	RCG Tap Water - Residential [1]	RCG Vapor Exposure - Groundwater Residential[1]	RCG Vapor Exposure - Groundwater Commerical / Industrial[1]	KB-1W	KB-1W DUP	KB-2W	KB-3W	KB-4W
Screen Interval (feet)				15-20	15-20	15-20	15-20	15-20
Date Sampled				10/24/2016	10/24/2016	10/24/2016	10/24/2016	10/24/2016
Lab Sample No.				50157392002	50157392003	50157392004	50157392005	50157392006
Acetone	14,000	NA	NA	<100	<100	<100	<100	<100
Acrolein	0.042	NA	NA	<50.0	<50.0	<50.0	<50.0	<50.0
Acrylonitrile	0.52	NA	NA	<100	<100	<100	<100	<100
Benzene	5	28	120	<5.0	<5.0	<5.0	<5.0	<5.0
Bromobenzene	62	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochloromethane	83	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	80	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	80	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane (Methyl Bromide)	7.5	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene	1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
sec-Butylbenzene	2,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
tert-Butylbenzene	690	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	810	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0
Carbon tetrachloride	5	6.5	28	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane	80	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane (Ethyl Chloride)	21,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	80	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane (Methyl Chloride)	190	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene (o-)	240	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene (p-)	250	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chloroethyl vinyl ether	NA	NA	NA					
1,2-Dibromo-3-Chloropropane	0.2	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0
1,2-Dibromoethane	0.05	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane (Methylene Bromide)	8.3	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	75	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorodifluoromethane	200	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	0.013	NA	NA	<100	<100	<100	<100	<100
1,1-Dichloroethane	28	130	550	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5	50	210	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7	300	1,300	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	5	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropane	370	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
2,2-Dichloropropane	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	4.7	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	4.7	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl methacrylate	630	NA	NA	<100	<100	<100	<100	<100
2-Hexanone	38	NA	NA	<25.0	<25.0	<25.0	<25.0	<25.0
Hexachlorobutadiene	1.4	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
n-Hexane	1500	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane	NA	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0
Isopropylbenzene (Cumene)	450	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene	NA	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	5	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Ethyl Ketone (2-Butanone)	5,600	NA	NA	<25.0	<25.0	<25.0	<25.0	<25.0
Methyl tert-butyl ether (MTBE)	140	NA	NA	<4.0	<4.0	<4.0	<4.0	<4.0
4-Methyl-2-pentanone (MIBK)	1,200	NA	NA	<25.0	<25.0	<25.0	<25.0	<25.0
1-Methylnapthalene	11	NA	NA	<1.7	<1.7	<1.7	<1.7	<1.7
2-Methylnapthalene	36	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	1.7	110	460	<10.0	<10.0	<10.0	<10.0	<10.0
n-Propylbenzene	660	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane	5.7	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	0.76	72	310	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5	110	470	**596**	**554**	**1,170**	**771**	**1,370**
Toluene	1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	7	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	200	13,000	54,000	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5	11	46	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	9.1	38	**7.4**	**7.5**	**20.6**	**10.4**	**7.4**
Trichlorofluoromethane	5,200	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	0.0075	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	15	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	120	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	410	NA	NA	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl chloride	2	2.1	35	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	10,000	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0

Samples analyzed using EPA SW-846 Method 8260B

µg/L = micrograms per liter

NA = Not Available

VOCs = Volatile Organic Compounds

(1) Indiana Department of Environmental Management Remediation Closure Guide, Appendix A, Table A-6, Final, March 22, 2012, with updates through March 2016.

BOLD = Indicates Detection
Exceeds RCG Tap Water-Residential Screening Levels
Exceeds RCG Vapor Exposure - Groundwater-Residential Screening Levels
Exceeds RCG Vapor Exposure - Groundwater-Commercial/Industrial Screening Levels

ATTACHMENT 1

KERAMIDA Standard Operating Procedures (SOPs)

PUSH PROBE
SOIL SAMPLING

1.0 PURPOSE

1.1. To obtain soil samples using percussive drilling technology (push probe) in a consistent manner that meets the objectives of the sampling and analysis plan and/or are consistent with regulatory guidance and industry standards.

2.0 SCOPE

2.1. Collection of soil samples using percussive drilling technology (push probe).

3.0 MATERIALS

Field Log Book
Latex or nitrile gloves
Munsel chart
Plastic bags
Plastic sheeting
Photoionization detector (PID) or flame ionization detector (FID)
Push-Probe Drill Rig
Disposable plastic liners for push-probe sample tube
Appropriate Personal Protective Equipment (PPE)
Sample containers and 5035 sample kits for VOCs
Sample labels and indelible marker
Cooler with ice

4.0 RESPONSIBILITY

KERAMIDA staff or subcontractors under KERAMIDA direction collecting soil samples using percussive drilling technology.

5.0 DEFINITIONS

N/A

6.0 PROCEDURE

6.1 Place a clean piece of plastic sheeting over the work area.

6.2 Place clean nitrile or latex vinyl examination gloves on hands and other personal protective equipment in accordance with the site-specific Health & Safety Plan (HASP).

6.3 Obtain discrete soil samples from the borings using either a 2-inch diameter/5-foot long, 2-inch diameter/4-foot long, or a 1.5-inch diameter/2-foot long stainless steel sampler equipped with dedicated, disposable plastic liners.

6.4 Once the sampler is opened, classify the soils using the KERAMIDA Soil Description system. Classify the soil samples for lithology, moisture content, odor, staining, color (identify with Munsel Chart), and any other significant characteristic.

6.5 Collect samples from each two-foot interval unless otherwise specified in the site-specific Sampling and Analysis Plan (SAP) or Quality Assurance Project Plan (QAPP).

6.6 If sampling for VOCs, follow Field Screening and Collection of VOC Soil Samples SOP.

6.7 Once the sample is classified, split the sample longitudinally into two equal portions: one for field screening and the other for laboratory analysis. Place the soil into new, clean, and labeled plastic bags. Seal the bags.

6.8 Allow the field screening bag to sit for 10 to 15 minutes to allow organic vapors to equilibrate in the air space of the bag. All field screening samples must be treated identically to ensure accurate comparisons. For example, if one field screening sample is placed in the sun to warm then all samples are placed in the sun.

6.9 Field screen the volatilized sample using an appropriate, calibrated photoionization detector (PID) or a flame-ionization detector (FID) depending on the suspected contaminants. FID instruments are more sensitive to the presence of heavier organic compounds such as polynuclear aromatic hydrocarbons. Ensure the selected instrument is properly calibrated in accordance with the methods presented in its respective operations manual. At a minimum, the instrument should be "bump checked" once per day. The samples are field screened by inserting the PID or FID probe into the plastic bag, while the bag remains closed. Record the maximum reading on the boring log and/or in the field log book.

6.10 At the completion of the field screening process, determine which of the sample intervals will be sent to the laboratory for analysis.

6.11 Affix a sample label to each sample container and complete all required information (sample number, date, time, sampler's initials, analysis, preservatives). Record sample ID, date, and time in the field book. The sample containers should be sealed, labeled, and placed on ice in a cooler maintaining a temperature of 4°C., in anticipation of laboratory analysis.

6.12 Complete the chain-of-custody form with the appropriate sampling information.

6.13 If samples collected using 5035 sample kits cannot be analyzed at the laboratory within 48-hours of collection, freeze the samples for transport to the laboratory. Additionally, request the laboratory to freeze the samples upon receipt.

6.14 All samples that are *not* sent to the laboratory, decontamination water, and disposable sampling equipment/materials should be disposed of in accordance with the site-specific SAP, QAPP, and/or KERAMIDA's *SOP for Management of Investigation Derived Waste*.

6.15 Keep detailed notes in the field logbook per KERAMIDA's *Field SOP for Note Taking and Log Book Entries*.

7.0 REF. DOCUMENTS

SAP, QAPP, KERAMIDA's *Field SOP for Note Taking and Log Book Entries,* and KERAMIDA's *SOP for Management of Investigation Derived Waste*

8.0 RECORDS

N/A

9.0 REVISION HISTORY

Revision Date	Nature of Change	Review and Approval (VP Level or Higher)	Review and Approval (President)*
8/20/15	Original Issue	KGB	N/A

*Reviewer and Approver at VP Level or Higher determines if SOP requires President's Review and Approval.

STANDARD OPERATING PROCEDURE FOR COLLECTING SOIL SAMPLES FOR VOC ANALYSIS USING METHOD 5035A

Prepared by:

KERAMIDA, INC.
401 North College Avenue
Indianapolis, Indiana 46202
317/685-6600

Revised: June 25, 2008

Standard Operating Procedure for Collecting Soil Samples for VOC Analysis Using Method 5035A

Samples of native soil materials collected for VOC and TPH-GRO analysis require laboratory preparation under SW-846 Method 5035A. Soil samples will be collected using Terra CoreÊ samplers. Sample collection will be performed as quickly as possible upon retrieval of soil with the split-barrel or direct-push sampler in order to minimize VOC loss. If the core surface has been exposed to the atmosphere for a couple of minutes or longer, or is covered by non-representative material or vegetation, surface layers will be scraped to expose representative soils using a clean knife or hand shovel. Sample collection using the Terra CoreÊ sampler will then be performed immediately and with minimum disruption.

Terra Core™ Samplers

The Terra CoreÊ Sampler is a single use device. It cannot be cleaned or reused. The following procedures will be used for Terra CoreÊ sample collection:

1. Have ready a 40-ml glass VOA vial containing the appropriate preservative. With the plunger seated in the handle, push the Terra Core into freshly exposed soil until the sample chamber is filled. A filled chamber will deliver approximately 5 grams of soil.

2. Wipe all soil or debris from the outside of the Terra CoreÊ sampler. The soil plug will be flush with the mouth of the sampler. Remove any excess soil that extends beyond the mouth of the sampler.

3. Rotate the plunger that was seated in the handle top 90° until it is aligned with the slots in the body. Place the mouth of the sampler into the 40-ml VOA vial containing the appropriate preservative and extrude the sample by pushing the plunger down. Quickly place the lid back on the 40-ml VOA vial.

4. When capping, remove any soil or debris from the threads of the vial.

5. Samples will be immediately placed on ice or otherwise cooled to 4ºC.

Sample containers for samples collected via Terra CoreÊ will consist of three 40 ml vials; one containing 5 ml of methanol for high level concentrations of VOCs or TPH-GRO, and two vials each with 5 ml of organic-free water for low level concentrations of VOCs or TPH-GRO.

Soil samples collected for all other analyses will be collected following any samples requiring VOC or TPH-GRO analyses. A subsample taken from the soil core split-barrel sampler will be placed in a plastic baggie and homogenized by hand. The homogenized sample will be placed in laboratory supplied containers and placed immediately on ice in a cooler.

PUSH-PROBE
GROUNDWATER SAMPLING

1.0 PURPOSE

1.1. To obtain groundwater samples using percussive drilling technology (push probe) in a consistent manner that meets the objectives of the sampling and analysis plan and/or are consistent with regulatory guidance and industry standards.

2.0 SCOPE

2.1. Collection of groundwater samples using percussive drilling technology (push probe).

3.0 MATERIALS

Field Log Book
Latex or nitrile gloves
Peristaltic pump (Geopump)
Polyethylene tubing
Silicon tubing
1-inch bailer
Sample kit (cooler, containers and ice)
Sample labels and indelible markers
Pocketknife or scissors
Appropriate personal protective equipment (PPE)

4.0 RESPONSIBILITY

KERAMIDA staff or subcontractors under KERAMIDA direction collecting groundwater samples using percussive drilling technology.

5.0 DEFINITIONS

N/A

6.0 PROCEDURE

6.1 Place clean nitrile or latex vinyl examination gloves on hands and other personal protective equipment in accordance with the site-specific Health & Safety Plan (HASP).

6.2 Advance Geoprobe® 2-inch diameter water sampler equipped with a 1-inch diameter, 41-inch long, stainless steel screen to the desired depth. Retract the 2-inch outer sheath while maintaining the screen depth. Alternatively, a temporary ¾-inch or 1-inch diameter, 5-foot, PVC screen with a PVC riser may be inserted into the open borehole in cases where groundwater sample volume may be limited.

6.3 Assemble the peristaltic pump per its operating manual.

6.4 Attach 3/8-inch Silicon tubing at the pump intake–only through the head of the peristaltic pump.

6.5 At the pump intake, attach ¼-inch polyethylene tubing to the silicon tubing. The polyethylene tubing should be long enough to extend to the bottom of the water sampler or temporary well screen. At the pump discharge end of the pump, attach a short length of ¼-inch polyethylene tubing.

6.6 Turn on the pump and purge three screen volumes (approximately one-half gallon) of water from the water sampler. The purge water should be contained in a bucket for proper disposal. If the sample is exceptionally silty, purge the system into a bucket until it clears enough for sampling.

Alternately, a stainless-steel check valve connected to 3/8-inch polyethylene tubing can be used to purge the water sampler or temporary well screen.

6.7 Following purging activities, remove the tubing from the water sampler or temporary well screen for volatile organic compound (VOC) sample collection. Collect the VOC samples using a stainless steel or disposable, polyethylene mini-bailer. Remove all air bubbles from the vial and minimize agitation. If bubbles persist, VOC samples may be taken in unpreserved 40ml vials. Note this on the chain-of-custody form as it changes the holding time for the sample.

Alternately, VOC groundwater samples may be collected with the peristaltic pump but groundwater must be collected prior to the pump head using the "soda straw" sampling method in accordance with EPA Region 4 Groundwater Sampling Operating Procedure No. SESDPROC-301-R3.

6.8 Replace the disposable tubing into the water sampler to collect the remaining organic and inorganic samples. Turn on the pump and draw the water from the water sampler, through the pump, and into the appropriate sample container.

6.9 This is the recommended sequence of sample collection:

In-situ measurements (e.g., temperature, pH, specific conductance)
Field test kits (e.g., ferrous iron, hydrogen sulfide)
Volatile organic analytes (VOA)
Total organic halogens (TOX)
Total organic carbon (TOC)
Semi-volatile organic analytes (SVOA)
Total metals
Dissolved metals
Phenols
Cyanide
Sulfate and chloride
Turbidity
Nitrate and ammonia
Radionuclides

6.10 Affix a sample label to each sample container and complete all required information (sample number, date, time, sampler's initials, analysis, preservatives). Record sample ID, date, and time in the field book. The sample containers should be

sealed, labeled, and placed on ice in a cooler maintaining a temperature of 4°C., in anticipation of laboratory analysis. Complete chain-of-custody forms with appropriate sampling information.

6.11 Thoroughly decontaminate all non-dedicated and non-disposable equipment in accordance with KERAMIDA's *Field Decontamination of Sampling Equipment* SOP.

6.12 All samples that are *not* sent to the laboratory, decontamination water, and disposable sampling equipment/materials should be disposed of in accordance with the site-specific Sampling and Analysis Plan (SAP), Quality Assurance Project Plan (QAPP), and/or KERAMIDA's *SOP for Management of Investigation Derived Waste*.

7.0 REF. DOCUMENTS

Sampling and Analysis Plan (SAP), Quality Assurance Project Plan (QAPP), KERAMIDA's *Field Decontamination of Sampling Equipment* SOP, and KERAMIDA's *SOP for Management of Investigation Derived Waste*

8.0 RECORDS

N/A

9.0 REVISION HISTORY

Revision Date	Nature of Change	Review and Approval (VP Level or Higher)	Review and Approval (President)*
8/20/15	Original Issue	KGB	N/A

*Reviewer and Approver at VP Level or Higher determines if SOP requires President's Review and Approval.

ATTACHMENT 2

Photographs & Sketches
(Bloodhound & KERAMIDA)

Photos from Bloodhound – Captions added by KERAMIDA

Electric line and sanitary sewer in former machine location on north wall (E to W)

Looking southwest in large room, located sewer and electrical lines

Former stage, looking NE. Located sewer along north wall, center bldg.

Looking west, located electric line. Centerline of 60 in culvert left side of photo

Photos from Bloodhound – Captions added by KERAMIDA

Sewer locates for manhole due east of northeast building corner. Looking north (left photo) and northeast (right photo).

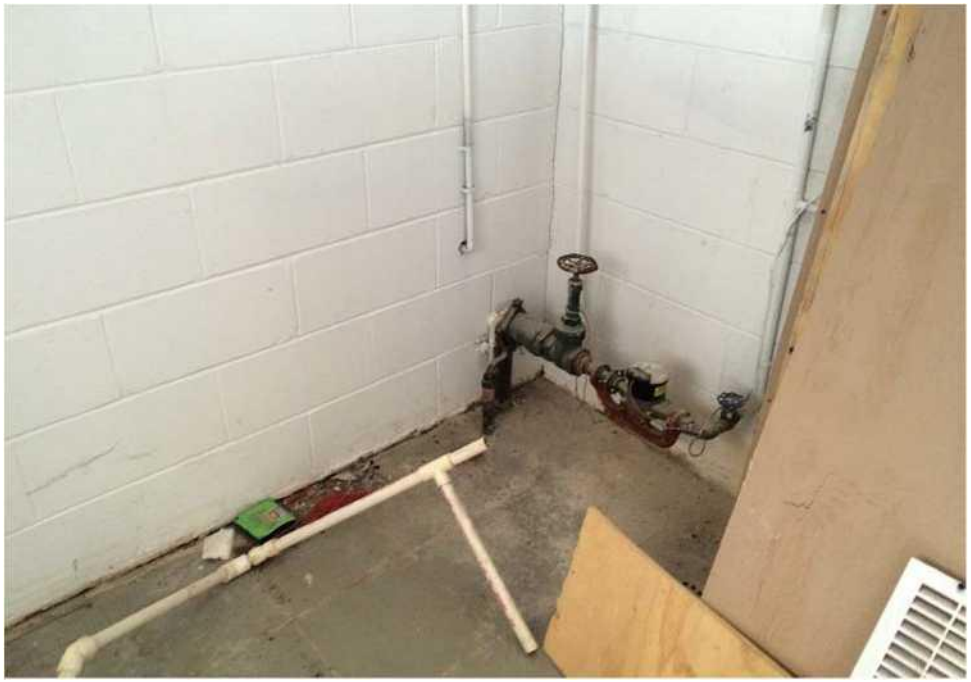
Manhole 60-in Creek Culvert east of building, looking northeast

Storm sewer manhole due east of southeast building corner

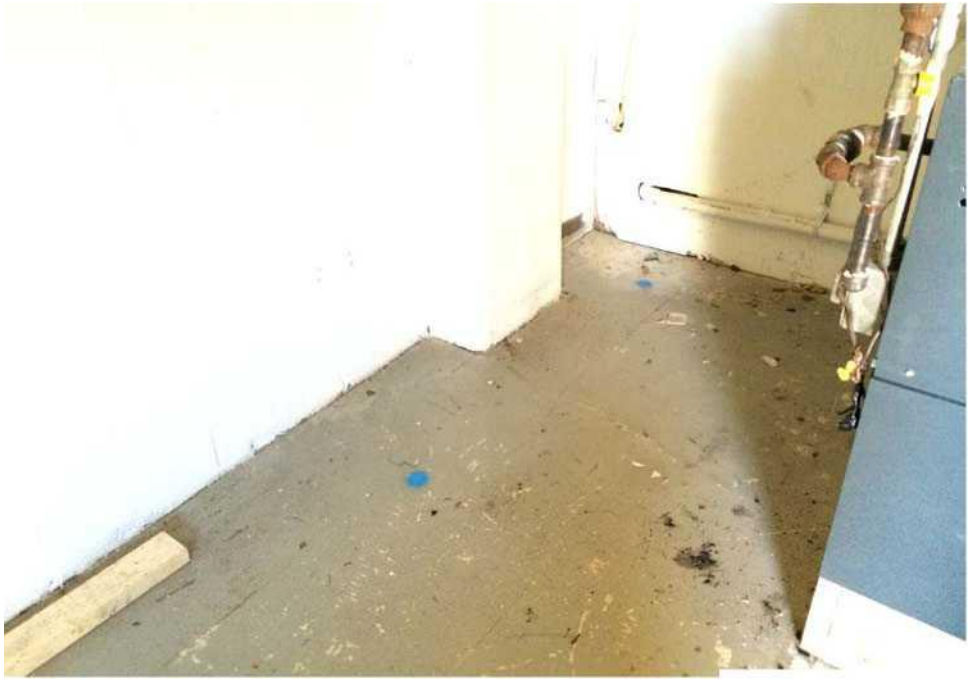
Photos from Bloodhound – Captions added by KERAMIDA

Communication line locate from northeast building corner.
Connection point at building and locate to north.

Photos from Bloodhound – Captions added by KERAMIDA



Water meter in SE bldg corner and floor drain, looking SE



Water line location along south wall in SE bldg corner

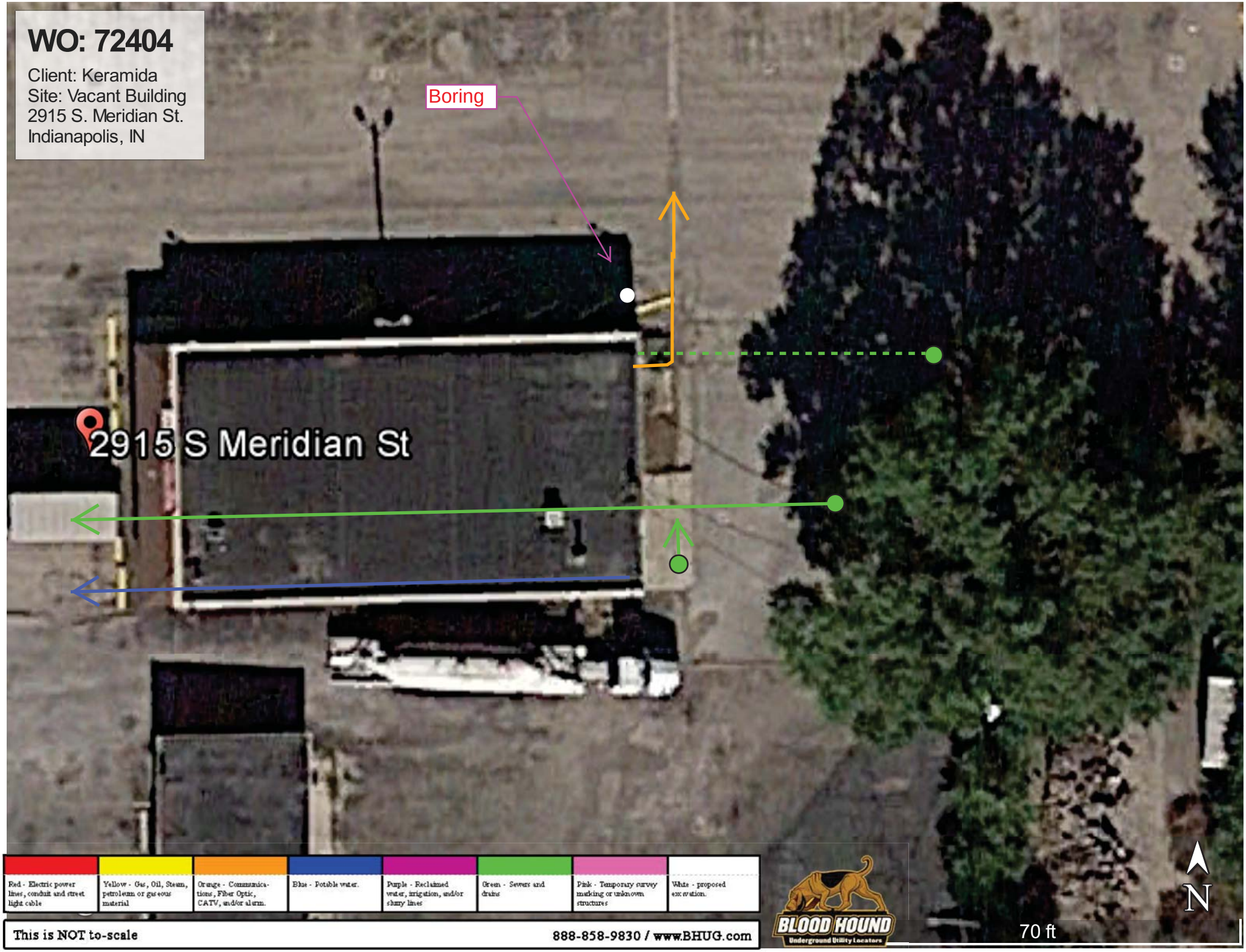
Photos from Bloodhound – Captions added by KERAMIDA

East end bldg, looking N, electric and sewer line locates

NEast end bldg, looking N, sewer line locate.

Sewer line located along east wall (presume floor drain), looking NE

Sewer line locate in SE bldg corner (presumed floor drain), looking south



Red - Electric power lines, conduit and street light cable	Yellow - Gas, Oil, Steam, petroleum or gaseous material	Orange - Communications, Fiber Optic, CATV, and/or alarm.	Blue - Potable water.	Purple - Reclaimed water, irrigation, and/or slurry lines	Green - Sewers and drains	Pink - Temporary survey marking or unknown structures	White - proposed excavation.

This is NOT to-scale

888-858-9830 / www.BHUG.com

BLOOD HOUND Underground Utility Locators

WO: 72404
Client: Keramida
Site: Vacant Lot
2915 S. Meridian St.
Indianapolis, IN

Red - Electric power lines, conduit and street light cable	Yellow - Gas, Oil, Steam, petroleum or gaseous material	Orange - Communications, Fiber Optic, CATV, and/or alarm.	Blue - Potable water.	Purple - Reclaimed water, irrigation, and/or slurry lines	Green - Sewers and drains	Pink - Temporary survey marking or unknown structures	White - proposed excavation.

This is NOT to-scale

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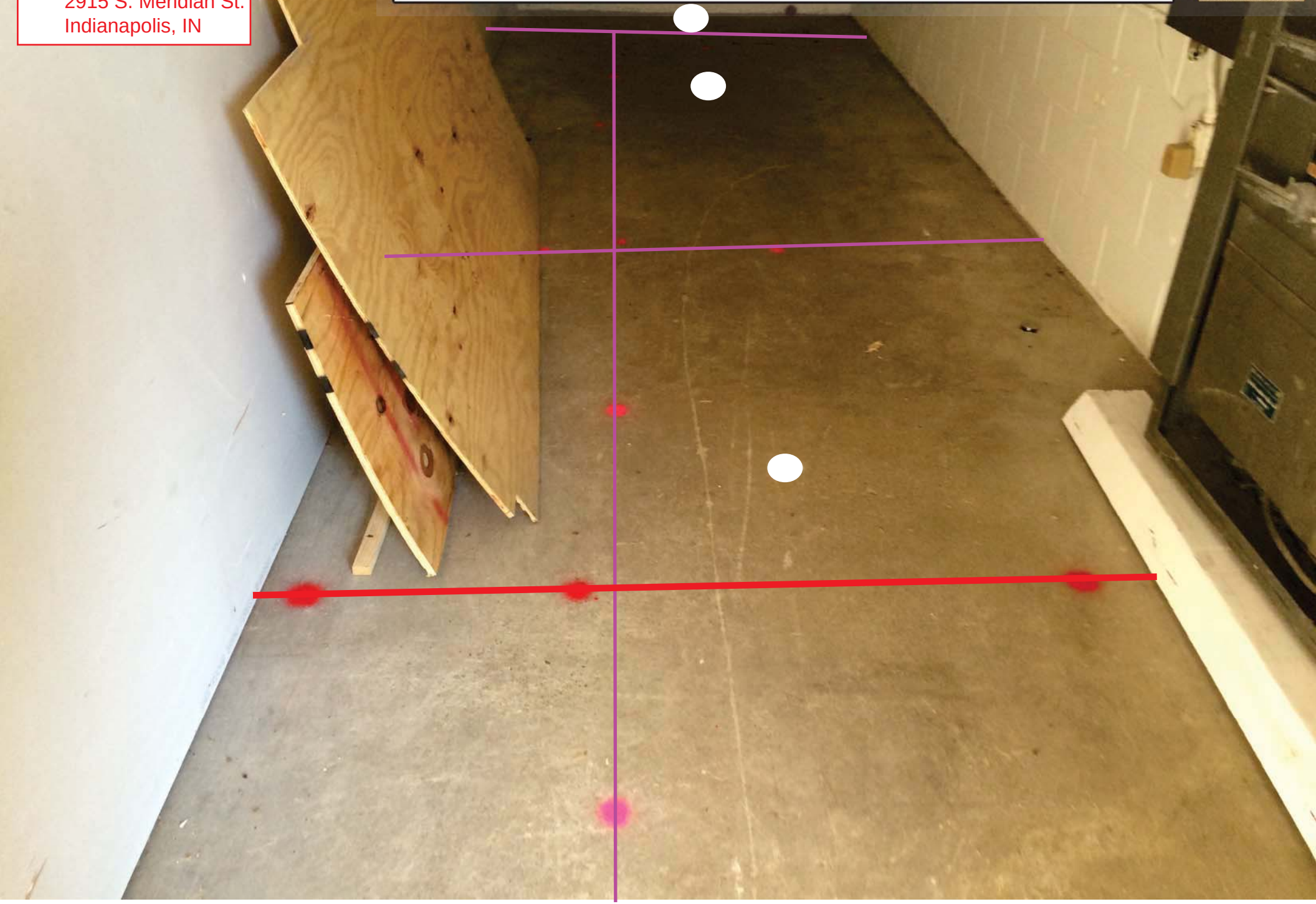
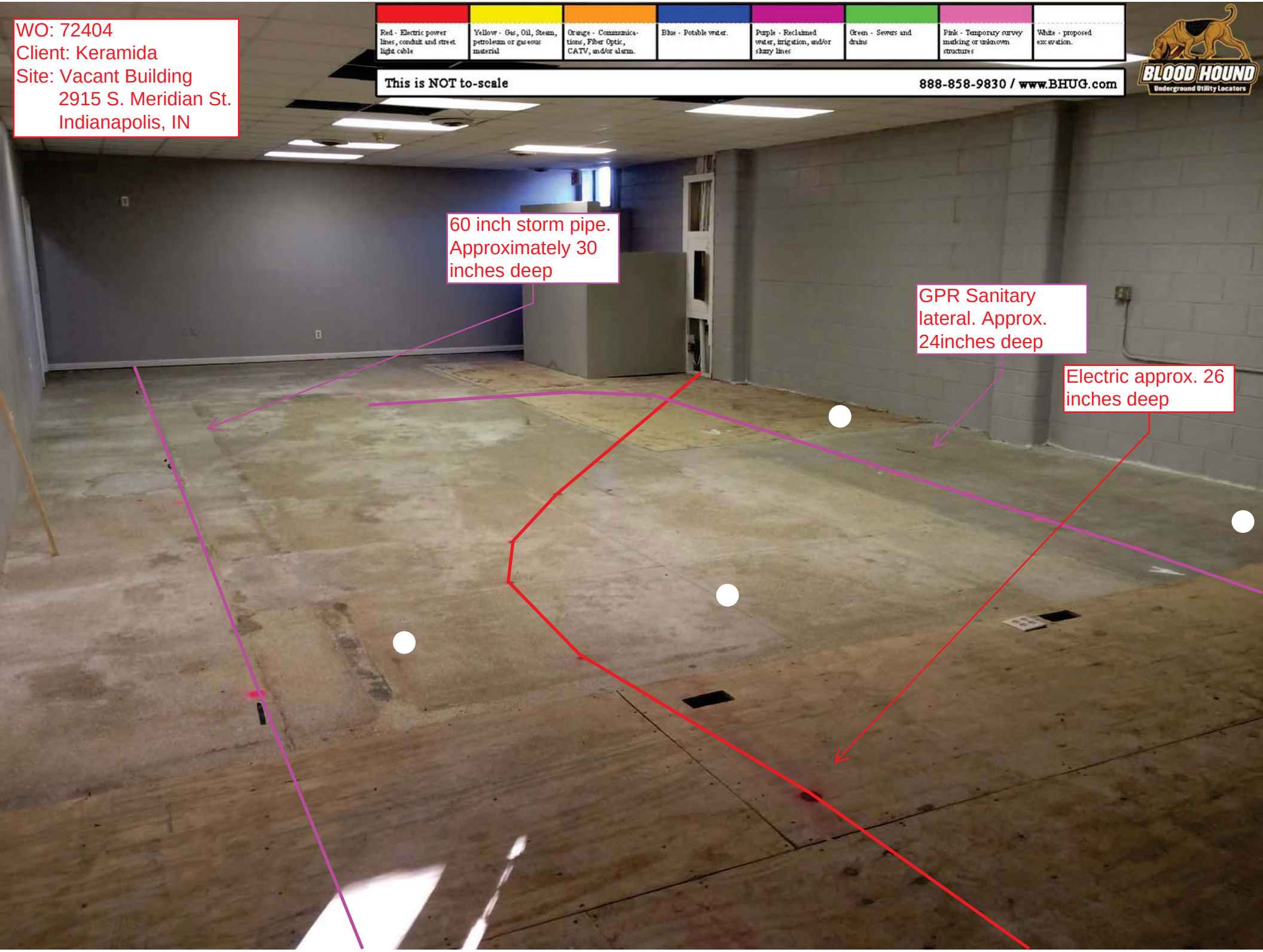
BLOOD HOUND
Underground Utility Locators




WO: 72404
Client: Keramida
Site: Vacant Building
2915 S. Meridian St.
Indianapolis, IN
Red - Electric power lines, conduit and street light cable
Yellow - Gas, Oil, Steam, petroleum or gaseous material
Orange - Communications, Fiber Optic, CATV, and/or alarm.
Blue - Potable water.
Purple - Reclaimed water, irrigation, and/or slurry lines
Green - Sewers and drains
Pink - Temporary survey marking or unknown structures
White - proposed excavation.
This is NOT to-scale
888-858-9830 / www.BHUG.com
BLOOD HOUND
Underground Utility Locators
60 inch storm pipe. Approximately 30 inches deep
GPR Sanitary lateral. Approx. 24inches deep
Electric approx. 26 inches deep

KERAMIDA
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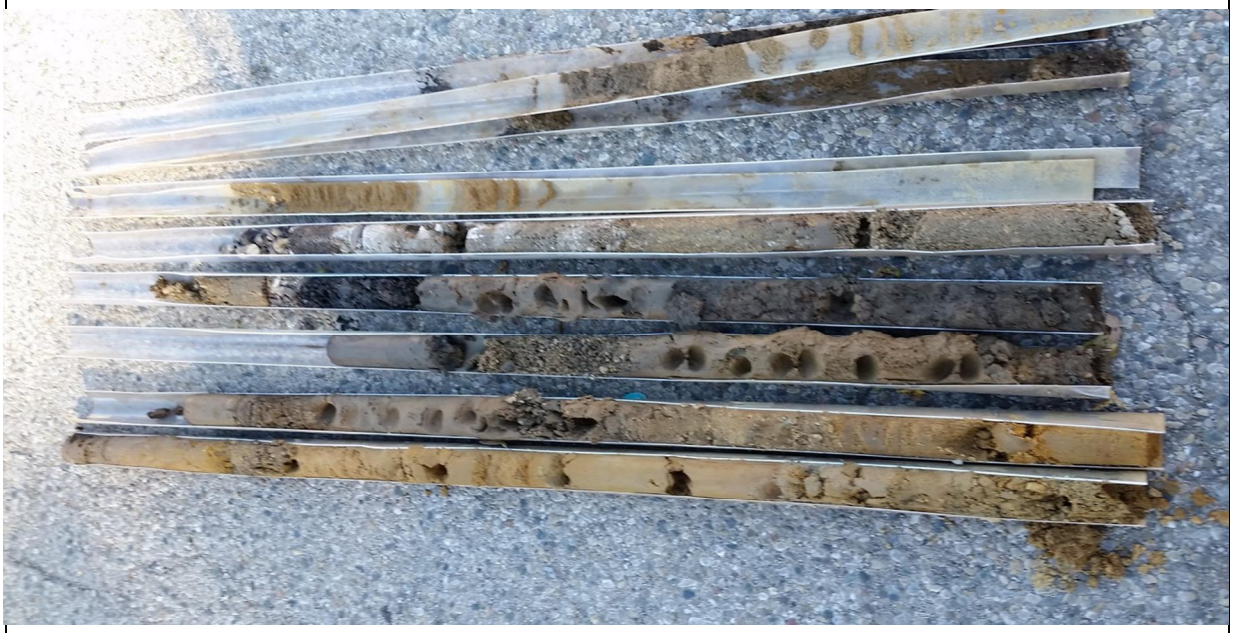
Global EHS & Sustainability Services

Site Photographs

	Photo Date: 10/24/16 -10/25/16	Project: Sub-Slab SSI Former Norge Laundry	Project #16948

Photo #1



Boring KB-3 (0 to 20 ft bgs)

Photo #2

Boring KB-3 (zoom of upper portion of cores 0 to 20 ft bgs)

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Site Photographs

	Photo Date: 10/24/16 -10/25/16	Project: Sub-Slab SSI Former Norge Laundry	Project #16948

Photo #3

Boring KB-3 (zoom of lower portion of cores 0 to 20 ft bgs)

Photo #4

Boring KB-4 (0 to 20 ft bgs)

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Site Photographs

	Photo Date: 10/24/16 -10/25/16	Project: Sub-Slab SSI Former Norge Laundry	Project #16948

Photo #5

Boring KB-1 (0 to 16 ft bgs)

Photo #6

Boring KB-1 (zoom in of lower portion of cores 0 to 16 ft bgs)

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Site Photographs

	Photo Date: 10/24/16 -10/25/16	Project: Sub-Slab SSI Former Norge Laundry	Project #16948

Photo #7

Boring KB-1 (zoom in of upper portion of cores 0 to 16 ft bgs)

Photo #8

Boring KB-2 (0 to 20 ft bgs)

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Site Photographs

	Photo Date: 10/24/16 -10/25/16	Project: Sub-Slab SSI Former Norge Laundry	Project #16948

Photo #9

Boring KB-2 (zoom in of upper portion of cores 0 to 20 ft bgs)

Photo # 10

Boring KB-2 (zoom in of lower portion of cores 0 to 20 ft bgs)

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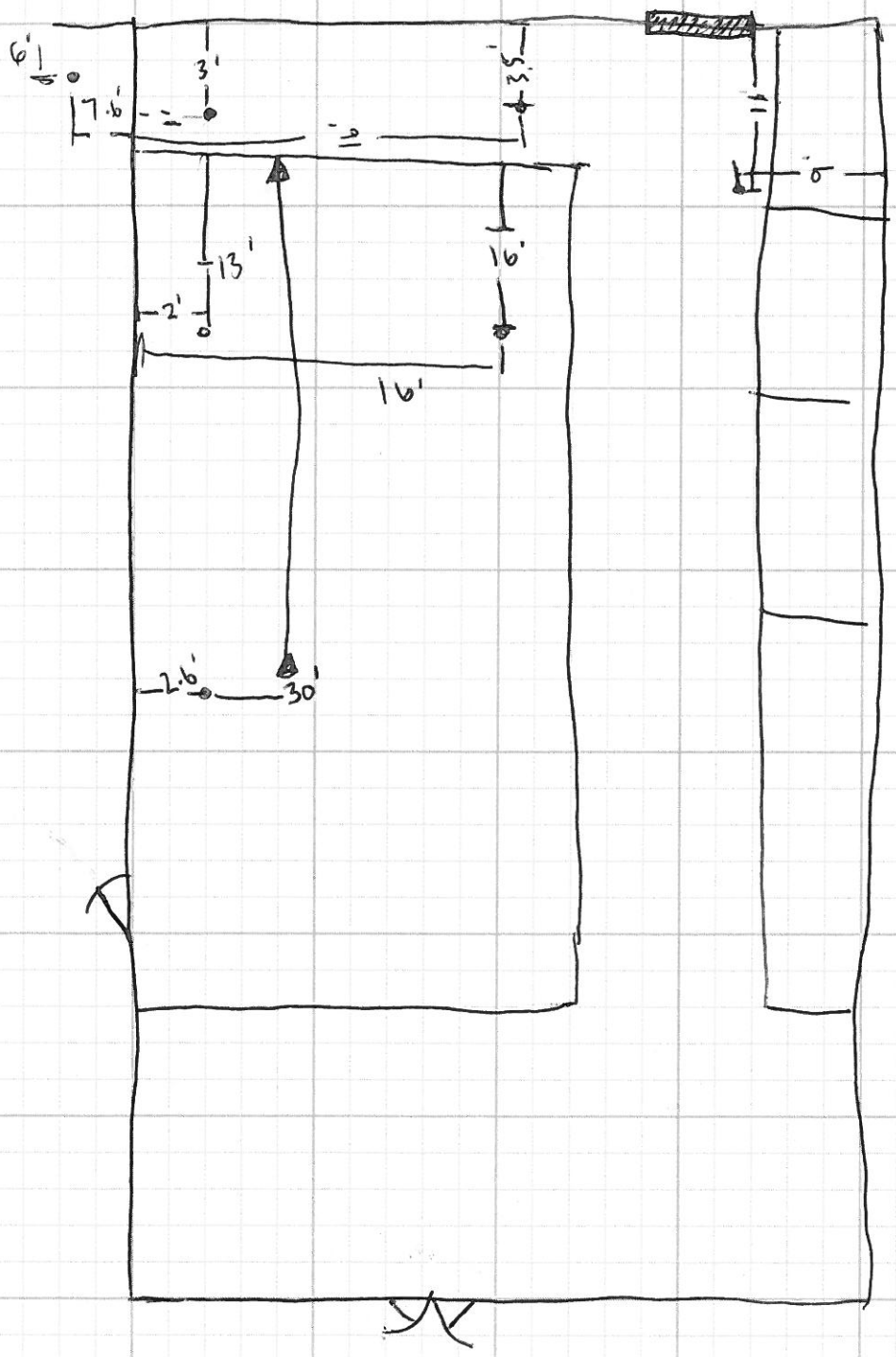
Title:		Drawn by:
Project:		Checked by:
Location:		
Job No.	Date:	Sht. of



ATTACHMENT 3

Soil Boring Logs

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-1**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Fmr. Norge Laundry	DRILLING CO.:	KEI	GROUND ELEVATION:	NA
ADDRESS:	2915 S. Meridian St.	DRILLER:	C. Poynter	TOC ELEVATION:	NA
CITY, ST:	Indianapolis, Indiana	RIG TYPE:	Geoprobe	NORTHING:	NA
JOB NO.:	16948	TOOLING:	Push Probe	EASTING:	NA
LOGGED BY:	Toph Orton	SAMPLER TYPE:	Macro Core	OBSERVED GROUNDWATER	
DATES DRILLED:	10/24/2016	TOTAL DEPTH	20'	STATIC WATER LEVEL	

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE	KB-1 (0-1')		0.9		
2	FILL: Sand and gravel sub-base, coarse grained, not sorted, loose, moist to wet, 10 YR 5/1		2.3			
	FILL: Silt, firm, moist, 10 YR 3/1			0.6		
4	FILL: Pea gravel, dry, loose, 10 YR 4/4					
	FILL: Sand and pea gravel, moist, medium dense, 10 YR 4/4			3.0		
6			1.4	1.8		
8	FILL: Pea Gravel			3.8		SP-22 Rods
10			1			
	SILT: Moist, sl. mottle, cohesive, sl. color change at 0.5 to tan, fine gravel throughout, 10 YR 4/6-3/2					
12	FILL: Pea gravel cave in from 1-8' horizon. No recovery of native material in liner.			NA		
14			NA			
16	NO RECOVERY: Blind push to 20' for groundwater sample collection using SP-22.			NA		
18		KB-1W	NA			SP-22 Retractable Screen
20						

NOTES:

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BOREHOLE NO.: **KB-2**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Fmr. Norge Laundry	DRILLING CO.:	KEI	GROUND ELEVATION:	NA
ADDRESS:	2915 S. Meridian St.	DRILLER:	C. Poynter	TOC ELEVATION:	NA
CITY, ST:	Indianapolis, Indiana	RIG TYPE:	Geoprobe	NORTHING:	NA
JOB NO.:	16948	TOOLING:	Push Probe	EASTING:	NA
LOGGED BY:	Toph Orton	SAMPLER TYPE:	Macro Core		OBSERVED GROUNDWATER
DATES DRILLED:	10/24/2016	TOTAL DEPTH	20'		STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE	KB-2 (0-1')		0.8		
2	FILL: Silty sand, soft, moist, not sorted, 10 YR 3/3		1.6	0.1		
4	FILL: Sand, likely fill material, well sorted, 10 YR 4/4			9.0		
6	SILT: Moist, sl. mottle (redox), firm, sl. clay content		2.5	3.9		
8					Temporary PVC Riser	
10			2.6	1.1 0.3		
12				7.8		
14	SAND: Well sorted, moist to wet, loose, 10 YR 3/3		3.1	3.5		
16	Wet			2.4		
18		KB-2W	2.9	4.6	Temporary PVC Screen	
	Coarse sand					
20	NO RECOVERY					

NOTES:

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BOREHOLE NO.: **KB-3**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Fmr. Norge Laundry	DRILLING CO.:	KEI	GROUND ELEVATION:	NA
ADDRESS:	2915 S. Meridian St.	DRILLER:	C. Poynter	TOC ELEVATION:	NA
CITY, ST:	Indianapolis, Indiana	RIG TYPE:	Geoprobe	NORTHING:	NA
JOB NO.:	16948	TOOLING:	Push Probe	EASTING:	NA
LOGGED BY:	Toph Orton	SAMPLER TYPE:	Macro Core		OBSERVED GROUNDWATER
DATES DRILLED:	10/24/2016	TOTAL DEPTH	20'		STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	ASPHALT			0.0		
	FILL: Sand and gravel, moist, coarse, dark brown-black					
2	SILT: Moist, fine sand and sm. gravel throughout, 10 YR 3/3		2.9	0.0		
	SAND: Coarse grained sand, moderately well sorted, moist, 10 YR 3/4					
4	SILTY SAND: Small gravel throughout, moist-v. moist, sl. mottle (redox), 10 YR 4/1 (Set temporary screen 5-10', no water)			3.5		
6			2.0	9.5		
8				2.1		Temporary PVC Riser
10			1.3	2.2		
12		KB-3 (12-14')		0.0		
14	SAND: Fine grained, moist, moderately well sorted, 10 YR 4/6		2.5	0.0		
16				0.0		
18	SAND AND GRAVEL: Coarse grained, silty, wet, 10 YR 4/4	KB-3W	2.6	8.2		Temporary PVC Screen
	NO RECOVERY					
20						

NOTES: Sample collected above water due to PID drift, no visual, no odor. Replacement PID used for borings 1, 2 and 4.

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BOREHOLE NO.: **KB-4**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Fmr. Norge Laundry	DRILLING CO.:	KEI	GROUND ELEVATION:	NA
ADDRESS:	2915 S. Meridian St.	DRILLER:	C. Poynter	TOC ELEVATION:	NA
CITY, ST:	Indianapolis, Indiana	RIG TYPE:	Geoprobe	NORTHING:	NA
JOB NO.:	16948	TOOLING:	Push Probe	EASTING:	NA
LOGGED BY:	Toph Orton	SAMPLER TYPE:	Macro Core		OBSERVED GROUNDWATER
DATES DRILLED:	10/24/2016	TOTAL DEPTH	20'		STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE			2.7		
2	FILL: Sand and gravel, moist, coarse, white gravel, 10 YR 5/1	KB-4 (1-2')	2.2			
	SILT: Moist, gravel throughout, hard, 10 YR 3/3			18.6		
4	SAND: Moist, medium grained, well sorted, loose, 10 YR 3/4					
	SILTY SAND: Moist, firm, sl. mottle (redox), sl. clay content from 4-4.9 feet bgs., 10 YR 3/3-3/1			1.2		
6			2.1	3.0		
8					Temporary PVC Riser	
				0.9		
10			2.0	0.4		
12	SAND: Moist, medium grained, fine at base, well sorted, soft, 10 YR 3/3			5.0		
14			1.7	4.5		
16				9.5		
18	10 YR 5/6	KB-4W	1.9	3.3	Temporary PVC Screen	
	NO RECOVERY					
20						

NOTES:

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BOREHOLE NO.: **HA-1**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Fmr. Norge Laundry**	DRILLING CO.: **KEI**	GROUND ELEVATION: **NA**
ADDRESS: **2915 S. Meridian St.**	DRILLER: **T. Orton**	TOC ELEVATION: **NA**
CITY, ST: **Indianapolis, Indiana**	RIG TYPE:	NORTHING: **NA**
JOB NO.: **16948**	TOOLING: **Hand Auger**	EASTING: **NA**
LOGGED BY: **Toph Orton**	SAMPLER TYPE: **Hand Auger**	OBSERVED GROUNDWATER
DATES DRILLED: **10/25/2016**	TOTAL DEPTH **1.4'**	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE	HA-1 (0-1')	1.4	.4		
	FILL: Sand and gravel sub-base, coarse grained, not sorted, loose, moist, 10 YR 3/3					

NOTES:

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BOREHOLE NO.: **HA-2**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Fmr. Norge Laundry**	DRILLING CO.: **KEI**	GROUND ELEVATION: **NA**
ADDRESS: **2915 S. Meridian St.**	DRILLER: **T. Orton**	TOC ELEVATION: **NA**
CITY, ST: **Indianapolis, Indiana**	RIG TYPE:	NORTHING: **NA**
JOB NO.: **16948**	TOOLING: **Hand Auger**	EASTING: **NA**
LOGGED BY: **Toph Orton**	SAMPLER TYPE: **Hand Auger**	OBSERVED GROUNDWATER
DATES DRILLED: **10/25/2016**	TOTAL DEPTH **1.75'**	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE: 2x concrete cores. Seperate slabs poured in this area.	HA-2 (0-1')	1.75	1.1		
	FILL: Silty sand and gravel, coarse gravel sub-base, not sorted, loose, moist, 10 YR 3/3					

NOTES:

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BOREHOLE NO.: **HA-3**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Fmr. Norge Laundry**	DRILLING CO.: **KEI**	GROUND ELEVATION: **NA**
ADDRESS: **2915 S. Meridian St.**	DRILLER: **T. Orton**	TOC ELEVATION: **NA**
CITY, ST: **Indianapolis, Indiana**	RIG TYPE:	NORTHING: **NA**
JOB NO.: **16948**	TOOLING: **Hand Auger**	EASTING: **NA**
LOGGED BY: **Toph Orton**	SAMPLER TYPE: **Hand Auger**	OBSERVED GROUNDWATER
DATES DRILLED: **10/25/2016**	TOTAL DEPTH **1.8'**	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	REC. (feet)	PID (ppm)	BORING COMPLETION	WELL DESCRIPTION
0	CONCRETE: 2x concrete cores. Seperate slabs poured in this area.	HA-3 (0-1')	1.8	1.2		
	FILL: Silty sand and gravel, coarse gravel sub-base, not sorted, loose, moist, 10 YR 3/3					

NOTES:

ATTACHMENT 4

Laboratory Analytical Report

Pace Analytical Services, LLC
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4860 Blazer Parkway
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Pace Analytical Services, LLC
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(317)228-3100

November 02, 2016

Mr. Mike Devir
Keramida
401 North College Avenue
Indianapolis, IN 46202

RE: Project: Norge Laundry / 16948
Pace Project No.: 50157392

Dear Mr. Devir:
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

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SAMPLE SUMMARY

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50157392001	**TB**	Water	10/24/16 08:00	10/25/16 13:05
50157392002	**KB-1W**	Water	10/24/16 13:51	10/25/16 13:05
50157392003	**KB-1W DUP**	Water	10/24/16 13:51	10/25/16 13:05
50157392004	**KB-2W**	Water	10/24/16 15:10	10/25/16 13:05
50157392005	**KB-3W**	Water	10/24/16 15:30	10/25/16 13:05
50157392006	**KB-4W**	Water	10/24/16 15:20	10/25/16 13:05
50157392007	**TB**	Solid	10/24/16 08:00	10/25/16 13:05
50157392008	**KB-1(0-1')**	Solid	10/24/16 12:10	10/25/16 13:05
50157392009	**KB-2(0-1')**	Solid	10/24/16 14:10	10/25/16 13:05
50157392010	**KB-3(12-14')**	Solid	10/24/16 10:40	10/25/16 13:05
50157392011	**KB-4(1-2')**	Solid	10/24/16 11:45	10/25/16 13:05
50157392012	**KB-4(1-2')DUP**	Solid	10/24/16 11:45	10/25/16 13:05
50157392013	**HA-1(0-1')**	Solid	10/25/16 09:32	10/25/16 13:05
50157392014	**HA-2(0-1')**	Solid	10/25/16 10:00	10/25/16 13:05
50157392015	**HA-3(0-1')**	Solid	10/25/16 10:15	10/25/16 13:05

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SAMPLE ANALYTE COUNT

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50157392001	**TB**	EPA 8260	JLZ	76
50157392002	**KB-1W**	EPA 8260	ALA, JLZ	76
50157392003	**KB-1W DUP**	EPA 8260	ALA, JLZ	76
50157392004	**KB-2W**	EPA 8260	ALA, JLZ	76
50157392005	**KB-3W**	EPA 8260	ALA, JLZ	76
50157392006	**KB-4W**	EPA 8260	JLZ, TMW	76
50157392007	**TB**	EPA 8260	TMW	76
50157392008	**KB-1(0-1')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392009	**KB-2(0-1')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392010	**KB-3(12-14')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392011	**KB-4(1-2')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392012	**KB-4(1-2')DUP**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392013	**HA-1(0-1')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392014	**HA-2(0-1')**	EPA 8260	TMW	76
		SM 2540G	SKK	1
50157392015	**HA-3(0-1')**	EPA 8260	TMW	76
		SM 2540G	SKK	1

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SUMMARY OF DETECTION

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50157392002	**KB-1W**					
EPA 8260	Tetrachloroethene	596	ug/L	25.0	10/31/16 20:09	
EPA 8260	Trichloroethene	7.4	ug/L	5.0	10/28/16 18:16	
50157392003	**KB-1W DUP**					
EPA 8260	Tetrachloroethene	554	ug/L	25.0	10/31/16 21:13	
EPA 8260	Trichloroethene	7.5	ug/L	5.0	10/29/16 05:59	
50157392004	**KB-2W**					
EPA 8260	Tetrachloroethene	1170	ug/L	50.0	10/31/16 20:41	
EPA 8260	Trichloroethene	20.6	ug/L	5.0	10/28/16 18:48	
50157392005	**KB-3W**					
EPA 8260	Tetrachloroethene	771	ug/L	25.0	10/31/16 21:45	
EPA 8260	Trichloroethene	10.4	ug/L	5.0	10/29/16 06:31	
50157392006	**KB-4W**					
EPA 8260	Tetrachloroethene	1370	ug/L	50.0	10/31/16 19:21	
EPA 8260	Trichloroethene	7.4	ug/L	5.0	10/29/16 07:03	
50157392008	**KB-1(0-1')**					
EPA 8260	Tetrachloroethene	2.6	mg/kg	0.11	10/31/16 14:57	
EPA 8260	Trichloroethene	0.0085	mg/kg	0.0044	10/28/16 21:06	
SM 2540G	Percent Moisture	10.2	%	0.10	10/27/16 17:06	
50157392009	**KB-2(0-1')**					
EPA 8260	Tetrachloroethene	4.7	mg/kg	0.11	10/31/16 15:25	
SM 2540G	Percent Moisture	11.7	%	0.10	10/27/16 17:06	
50157392010	**KB-3(12-14')**					
EPA 8260	Tetrachloroethene	0.26	mg/kg	0.0048	10/31/16 19:59	
SM 2540G	Percent Moisture	10.1	%	0.10	10/27/16 17:07	
50157392011	**KB-4(1-2')**					
EPA 8260	Tetrachloroethene	21.4	mg/kg	1.2	10/31/16 16:20	
SM 2540G	Percent Moisture	2.6	%	0.10	10/27/16 17:07	
50157392012	**KB-4(1-2')DUP**					
EPA 8260	Tetrachloroethene	18.3	mg/kg	1.5	10/31/16 16:47	
SM 2540G	Percent Moisture	2.8	%	0.10	10/27/16 17:07	
50157392013	**HA-1(0-1')**					
EPA 8260	Tetrachloroethene	0.17	mg/kg	0.0050	10/28/16 22:59	
SM 2540G	Percent Moisture	6.1	%	0.10	10/27/16 17:07	
50157392014	**HA-2(0-1')**					
EPA 8260	Tetrachloroethene	0.28	mg/kg	0.0047	10/28/16 23:36	
SM 2540G	Percent Moisture	6.8	%	0.10	10/27/16 17:07	
50157392015	**HA-3(0-1')**					
EPA 8260	Tetrachloroethene	3.0	mg/kg	0.091	10/31/16 17:15	
SM 2540G	Percent Moisture	5.1	%	0.10	10/27/16 17:07	R1

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: TB **Lab ID: 50157392001** Collected: 10/24/16 08:00 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/28/16 17:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/28/16 17:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/28/16 17:45	107-13-1	
Benzene	ND	ug/L	5.0	1		10/28/16 17:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/28/16 17:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/28/16 17:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/28/16 17:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/28/16 17:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/16 17:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/28/16 17:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/28/16 17:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/28/16 17:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/28/16 17:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/28/16 17:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/28/16 17:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 17:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/28/16 17:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/28/16 17:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/28/16 17:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/28/16 17:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/28/16 17:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/28/16 17:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/28/16 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/28/16 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/28/16 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 17:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 17:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/28/16 17:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 17:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/28/16 17:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 17:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 17:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/28/16 17:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/28/16 17:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/28/16 17:45	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/28/16 17:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/28/16 17:45	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: TB **Lab ID: 50157392001** Collected: 10/24/16 08:00 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/28/16 17:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/28/16 17:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/28/16 17:45	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/28/16 17:45	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/28/16 17:45	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/28/16 17:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/28/16 17:45	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/28/16 17:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	103-65-1	
Styrene	ND	ug/L	5.0	1		10/28/16 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 17:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/28/16 17:45	127-18-4	
Toluene	ND	ug/L	5.0	1		10/28/16 17:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 17:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/28/16 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/28/16 17:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/28/16 17:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/28/16 17:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/28/16 17:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 17:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/28/16 17:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/28/16 17:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/28/16 17:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		10/28/16 17:45	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-116	1		10/28/16 17:45	460-00-4	
Toluene-d8 (S)	96	%.	86-110	1		10/28/16 17:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1W **Lab ID: 50157392002** Collected: 10/24/16 13:51 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/28/16 18:16	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/28/16 18:16	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/28/16 18:16	107-13-1	
Benzene	ND	ug/L	5.0	1		10/28/16 18:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/28/16 18:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/28/16 18:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/28/16 18:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/28/16 18:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/16 18:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/28/16 18:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/28/16 18:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/28/16 18:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/28/16 18:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/28/16 18:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/28/16 18:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 18:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/28/16 18:16	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/28/16 18:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/28/16 18:16	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/28/16 18:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/28/16 18:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/28/16 18:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/28/16 18:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/28/16 18:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/28/16 18:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/28/16 18:16	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/28/16 18:16	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/28/16 18:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/28/16 18:16	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1W **Lab ID: 50157392002** Collected: 10/24/16 13:51 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/28/16 18:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/28/16 18:16	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/28/16 18:16	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/28/16 18:16	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/28/16 18:16	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/28/16 18:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/28/16 18:16	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/28/16 18:16	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	103-65-1	
Styrene	ND	ug/L	5.0	1		10/28/16 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 18:16	79-34-5	
Tetrachloroethene	**596**	ug/L	25.0	5		10/31/16 20:09	127-18-4	
Toluene	ND	ug/L	5.0	1		10/28/16 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/28/16 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/28/16 18:16	79-00-5	
Trichloroethene	**7.4**	ug/L	5.0	1		10/28/16 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/28/16 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/28/16 18:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 18:16	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/28/16 18:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/28/16 18:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/28/16 18:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		10/28/16 18:16	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		10/28/16 18:16	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		10/28/16 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1W DUP **Lab ID: 50157392003** Collected: 10/24/16 13:51 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/29/16 05:59	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/29/16 05:59	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/29/16 05:59	107-13-1	
Benzene	ND	ug/L	5.0	1		10/29/16 05:59	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/29/16 05:59	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/29/16 05:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/29/16 05:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/29/16 05:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/29/16 05:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/29/16 05:59	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/29/16 05:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/16 05:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/29/16 05:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/29/16 05:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/29/16 05:59	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 05:59	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 05:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/29/16 05:59	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/29/16 05:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/29/16 05:59	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/29/16 05:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/29/16 05:59	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/29/16 05:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/16 05:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/16 05:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/16 05:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 05:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 05:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 05:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/29/16 05:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 05:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/29/16 05:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 05:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 05:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/29/16 05:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/29/16 05:59	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/29/16 05:59	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/29/16 05:59	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/29/16 05:59	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1W DUP **Lab ID: 50157392003** Collected: 10/24/16 13:51 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/29/16 05:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/29/16 05:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/29/16 05:59	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/29/16 05:59	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/29/16 05:59	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/29/16 05:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/29/16 05:59	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/29/16 05:59	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	103-65-1	
Styrene	ND	ug/L	5.0	1		10/29/16 05:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 05:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 05:59	79-34-5	
Tetrachloroethene	**554**	ug/L	25.0	5		10/31/16 21:13	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/16 05:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 05:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/16 05:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/29/16 05:59	79-00-5	
Trichloroethene	**7.5**	ug/L	5.0	1		10/29/16 05:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/29/16 05:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/29/16 05:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 05:59	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/29/16 05:59	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/29/16 05:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/16 05:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		10/29/16 05:59	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-116	1		10/29/16 05:59	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		10/29/16 05:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-2W **Lab ID: 50157392004** Collected: 10/24/16 15:10 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/28/16 18:48	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/28/16 18:48	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/28/16 18:48	107-13-1	
Benzene	ND	ug/L	5.0	1		10/28/16 18:48	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/28/16 18:48	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/28/16 18:48	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/28/16 18:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/28/16 18:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/16 18:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/28/16 18:48	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/28/16 18:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/28/16 18:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/28/16 18:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/28/16 18:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/28/16 18:48	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 18:48	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/28/16 18:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/28/16 18:48	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/28/16 18:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/28/16 18:48	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/28/16 18:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/28/16 18:48	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/28/16 18:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/28/16 18:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/28/16 18:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/28/16 18:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/28/16 18:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/28/16 18:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/28/16 18:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/28/16 18:48	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/28/16 18:48	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/28/16 18:48	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/28/16 18:48	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-2W **Lab ID: 50157392004** Collected: 10/24/16 15:10 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/28/16 18:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/28/16 18:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/28/16 18:48	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/28/16 18:48	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/28/16 18:48	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/28/16 18:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/28/16 18:48	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/28/16 18:48	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	103-65-1	
Styrene	ND	ug/L	5.0	1		10/28/16 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 18:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/28/16 18:48	79-34-5	
Tetrachloroethene	**1170**	ug/L	50.0	10		10/31/16 20:41	127-18-4	
Toluene	ND	ug/L	5.0	1		10/28/16 18:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/28/16 18:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/28/16 18:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/28/16 18:48	79-00-5	
Trichloroethene	**20.6**	ug/L	5.0	1		10/28/16 18:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/28/16 18:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/28/16 18:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/28/16 18:48	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/28/16 18:48	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/28/16 18:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/28/16 18:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		10/28/16 18:48	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		10/28/16 18:48	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		10/28/16 18:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-3W **Lab ID: 50157392005** Collected: 10/24/16 15:30 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/29/16 06:31	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/29/16 06:31	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/29/16 06:31	107-13-1	
Benzene	ND	ug/L	5.0	1		10/29/16 06:31	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/29/16 06:31	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/29/16 06:31	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/29/16 06:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/29/16 06:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/29/16 06:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/29/16 06:31	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/29/16 06:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/16 06:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/29/16 06:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/29/16 06:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/29/16 06:31	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 06:31	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 06:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/29/16 06:31	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/29/16 06:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/29/16 06:31	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/29/16 06:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/29/16 06:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/29/16 06:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/16 06:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/16 06:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/16 06:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 06:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 06:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 06:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/29/16 06:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 06:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/29/16 06:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 06:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 06:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/29/16 06:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/29/16 06:31	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/29/16 06:31	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/29/16 06:31	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/29/16 06:31	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-3W **Lab ID: 50157392005** Collected: 10/24/16 15:30 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/29/16 06:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/29/16 06:31	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/29/16 06:31	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/29/16 06:31	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/29/16 06:31	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/29/16 06:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/29/16 06:31	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/29/16 06:31	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	103-65-1	
Styrene	ND	ug/L	5.0	1		10/29/16 06:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 06:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 06:31	79-34-5	
Tetrachloroethene	**771**	ug/L	25.0	5		10/31/16 21:45	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/16 06:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 06:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/16 06:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/29/16 06:31	79-00-5	
Trichloroethene	**10.4**	ug/L	5.0	1		10/29/16 06:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/29/16 06:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/29/16 06:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 06:31	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/29/16 06:31	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/29/16 06:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/16 06:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		10/29/16 06:31	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-116	1		10/29/16 06:31	460-00-4	
Toluene-d8 (S)	96	%.	86-110	1		10/29/16 06:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4W **Lab ID: 50157392006** Collected: 10/24/16 15:20 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/29/16 07:03	67-64-1	
Acrolein	ND	ug/L	50.0	1		10/29/16 07:03	107-02-8	
Acrylonitrile	ND	ug/L	100	1		10/29/16 07:03	107-13-1	
Benzene	ND	ug/L	5.0	1		10/29/16 07:03	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		10/29/16 07:03	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		10/29/16 07:03	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/29/16 07:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/29/16 07:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/29/16 07:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		10/29/16 07:03	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		10/29/16 07:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/16 07:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/29/16 07:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/29/16 07:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/29/16 07:03	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 07:03	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		10/29/16 07:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		10/29/16 07:03	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/29/16 07:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/29/16 07:03	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		10/29/16 07:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/29/16 07:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		10/29/16 07:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/16 07:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/16 07:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/16 07:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 07:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/16 07:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 07:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		10/29/16 07:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		10/29/16 07:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		10/29/16 07:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 07:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/29/16 07:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		10/29/16 07:03	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		10/29/16 07:03	87-68-3	
n-Hexane	ND	ug/L	5.0	1		10/29/16 07:03	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		10/29/16 07:03	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/29/16 07:03	74-88-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4W **Lab ID: 50157392006** Collected: 10/24/16 15:20 Received: 10/25/16 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Indiana	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		10/29/16 07:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		10/29/16 07:03	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		10/29/16 07:03	75-09-2	
1-Methylnaphthalene	ND	ug/L	5.0	1		10/29/16 07:03	90-12-0	N2
2-Methylnaphthalene	ND	ug/L	10.0	1		10/29/16 07:03	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		10/29/16 07:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		10/29/16 07:03	1634-04-4	
Naphthalene	ND	ug/L	1.7	1		10/29/16 07:03	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	103-65-1	
Styrene	ND	ug/L	5.0	1		10/29/16 07:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 07:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/29/16 07:03	79-34-5	
Tetrachloroethene	**1370**	ug/L	50.0	10		10/31/16 19:21	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/16 07:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		10/29/16 07:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/16 07:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/29/16 07:03	79-00-5	
Trichloroethene	**7.4**	ug/L	5.0	1		10/29/16 07:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/29/16 07:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/29/16 07:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		10/29/16 07:03	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		10/29/16 07:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		10/29/16 07:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/16 07:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	84-118	1		10/29/16 07:03	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		10/29/16 07:03	460-00-4	
Toluene-d8 (S)	96	%.	86-110	1		10/29/16 07:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: TB **Lab ID: 50157392007** Collected: 10/24/16 08:00 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		10/28/16 20:28	67-64-1	
Acrolein	ND	mg/kg	0.10	1		10/28/16 20:28	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		10/28/16 20:28	107-13-1	
Benzene	ND	mg/kg	0.0050	1		10/28/16 20:28	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		10/28/16 20:28	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		10/28/16 20:28	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		10/28/16 20:28	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		10/28/16 20:28	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		10/28/16 20:28	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		10/28/16 20:28	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		10/28/16 20:28	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		10/28/16 20:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.010	1		10/28/16 20:28	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		10/28/16 20:28	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		10/28/16 20:28	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		10/28/16 20:28	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 20:28	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 20:28	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 20:28	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 20:28	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 20:28	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 20:28	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 20:28	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 20:28	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 20:28	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		10/28/16 20:28	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		10/28/16 20:28	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		10/28/16 20:28	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		10/28/16 20:28	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: TB **Lab ID: 50157392007** Collected: 10/24/16 08:00 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.10	1		10/28/16 20:28	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		10/28/16 20:28	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		10/28/16 20:28	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		10/28/16 20:28	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.010	1		10/28/16 20:28	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.010	1		10/28/16 20:28	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		10/28/16 20:28	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		10/28/16 20:28	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		10/28/16 20:28	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	103-65-1	
Styrene	ND	mg/kg	0.0050	1		10/28/16 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	79-34-5	
Tetrachloroethene	ND	mg/kg	0.0050	1		10/28/16 20:28	127-18-4	
Toluene	ND	mg/kg	0.0050	1		10/28/16 20:28	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		10/28/16 20:28	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		10/28/16 20:28	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		10/28/16 20:28	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		10/28/16 20:28	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		10/28/16 20:28	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		10/28/16 20:28	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		10/28/16 20:28	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		10/28/16 20:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	70-128	1		10/28/16 20:28	1868-53-7	
Toluene-d8 (S)	102	%.	72-139	1		10/28/16 20:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	65-127	1		10/28/16 20:28	460-00-4	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1(0-1') **Lab ID: 50157392008** Collected: 10/24/16 12:10 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.089	1		10/28/16 21:06	67-64-1	
Acrolein	ND	mg/kg	0.089	1		10/28/16 21:06	107-02-8	
Acrylonitrile	ND	mg/kg	0.089	1		10/28/16 21:06	107-13-1	
Benzene	ND	mg/kg	0.0044	1		10/28/16 21:06	71-43-2	
Bromobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	108-86-1	
Bromochloromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	75-27-4	
Bromoform	ND	mg/kg	0.0044	1		10/28/16 21:06	75-25-2	
Bromomethane	ND	mg/kg	0.0044	1		10/28/16 21:06	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.022	1		10/28/16 21:06	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	98-06-6	
Carbon disulfide	ND	mg/kg	0.0089	1		10/28/16 21:06	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0044	1		10/28/16 21:06	56-23-5	
Chlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	108-90-7	
Chloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	75-00-3	
Chloroform	ND	mg/kg	0.0044	1		10/28/16 21:06	67-66-3	
Chloromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0044	1		10/28/16 21:06	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0044	1		10/28/16 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0089	1		10/28/16 21:06	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0044	1		10/28/16 21:06	106-93-4	
Dibromomethane	ND	mg/kg	0.0044	1		10/28/16 21:06	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.089	1		10/28/16 21:06	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0044	1		10/28/16 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0044	1		10/28/16 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0044	1		10/28/16 21:06	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0044	1		10/28/16 21:06	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0044	1		10/28/16 21:06	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0044	1		10/28/16 21:06	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0044	1		10/28/16 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0044	1		10/28/16 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0044	1		10/28/16 21:06	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.089	1		10/28/16 21:06	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0044	1		10/28/16 21:06	87-68-3	
n-Hexane	ND	mg/kg	0.0044	1		10/28/16 21:06	110-54-3	
2-Hexanone	ND	mg/kg	0.089	1		10/28/16 21:06	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-1(0-1') **Lab ID: 50157392008** Collected: 10/24/16 12:10 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.089	1		10/28/16 21:06	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0044	1		10/28/16 21:06	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0044	1		10/28/16 21:06	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		10/28/16 21:06	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0089	1		10/28/16 21:06	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0089	1		10/28/16 21:06	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.022	1		10/28/16 21:06	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0044	1		10/28/16 21:06	1634-04-4	
Naphthalene	ND	mg/kg	0.0044	1		10/28/16 21:06	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	103-65-1	
Styrene	ND	mg/kg	0.0044	1		10/28/16 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	79-34-5	
Tetrachloroethene	**2.6**	mg/kg	0.11	25		10/31/16 14:57	127-18-4	
Toluene	ND	mg/kg	0.0044	1		10/28/16 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0044	1		10/28/16 21:06	79-00-5	
Trichloroethene	**0.0085**	mg/kg	0.0044	1		10/28/16 21:06	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0044	1		10/28/16 21:06	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0044	1		10/28/16 21:06	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0044	1		10/28/16 21:06	108-67-8	
Vinyl acetate	ND	mg/kg	0.089	1		10/28/16 21:06	108-05-4	
Vinyl chloride	ND	mg/kg	0.0044	1		10/28/16 21:06	75-01-4	
Xylene (Total)	ND	mg/kg	0.0089	1		10/28/16 21:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	70-128	1		10/28/16 21:06	1868-53-7	
Toluene-d8 (S)	106	%.	72-139	1		10/28/16 21:06	2037-26-5	
4-Bromofluorobenzene (S)	86	%.	65-127	1		10/28/16 21:06	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10.2**	%	0.10	1		10/27/16 17:06		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-2(0-1') **Lab ID: 50157392009** Collected: 10/24/16 14:10 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.084	1		10/28/16 21:43	67-64-1	
Acrolein	ND	mg/kg	0.084	1		10/28/16 21:43	107-02-8	
Acrylonitrile	ND	mg/kg	0.084	1		10/28/16 21:43	107-13-1	
Benzene	ND	mg/kg	0.0042	1		10/28/16 21:43	71-43-2	
Bromobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	75-27-4	
Bromoform	ND	mg/kg	0.0042	1		10/28/16 21:43	75-25-2	
Bromomethane	ND	mg/kg	0.0042	1		10/28/16 21:43	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.021	1		10/28/16 21:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	98-06-6	
Carbon disulfide	ND	mg/kg	0.0084	1		10/28/16 21:43	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0042	1		10/28/16 21:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	108-90-7	
Chloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	75-00-3	
Chloroform	ND	mg/kg	0.0042	1		10/28/16 21:43	67-66-3	
Chloromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0042	1		10/28/16 21:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0042	1		10/28/16 21:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0084	1		10/28/16 21:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0042	1		10/28/16 21:43	106-93-4	
Dibromomethane	ND	mg/kg	0.0042	1		10/28/16 21:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.084	1		10/28/16 21:43	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0042	1		10/28/16 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0042	1		10/28/16 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0042	1		10/28/16 21:43	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0042	1		10/28/16 21:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0042	1		10/28/16 21:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0042	1		10/28/16 21:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0042	1		10/28/16 21:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0042	1		10/28/16 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0042	1		10/28/16 21:43	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.084	1		10/28/16 21:43	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0042	1		10/28/16 21:43	87-68-3	
n-Hexane	ND	mg/kg	0.0042	1		10/28/16 21:43	110-54-3	
2-Hexanone	ND	mg/kg	0.084	1		10/28/16 21:43	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-2(0-1') **Lab ID: 50157392009** Collected: 10/24/16 14:10 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.084	1		10/28/16 21:43	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0042	1		10/28/16 21:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0042	1		10/28/16 21:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.017	1		10/28/16 21:43	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0084	1		10/28/16 21:43	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0084	1		10/28/16 21:43	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.021	1		10/28/16 21:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0042	1		10/28/16 21:43	1634-04-4	
Naphthalene	ND	mg/kg	0.0042	1		10/28/16 21:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	103-65-1	
Styrene	ND	mg/kg	0.0042	1		10/28/16 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	79-34-5	
Tetrachloroethene	**4.7**	mg/kg	0.11	25		10/31/16 15:25	127-18-4	
Toluene	ND	mg/kg	0.0042	1		10/28/16 21:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0042	1		10/28/16 21:43	79-00-5	
Trichloroethene	ND	mg/kg	0.0042	1		10/28/16 21:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0042	1		10/28/16 21:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0042	1		10/28/16 21:43	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0042	1		10/28/16 21:43	108-67-8	
Vinyl acetate	ND	mg/kg	0.084	1		10/28/16 21:43	108-05-4	
Vinyl chloride	ND	mg/kg	0.0042	1		10/28/16 21:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.0084	1		10/28/16 21:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	70-128	1		10/28/16 21:43	1868-53-7	
Toluene-d8 (S)	108	%.	72-139	1		10/28/16 21:43	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	65-127	1		10/28/16 21:43	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**11.7**	%	0.10	1		10/27/16 17:06		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-3(12-14') **Lab ID: 50157392010** Collected: 10/24/16 10:40 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.091	1		10/28/16 22:21	67-64-1	
Acrolein	ND	mg/kg	0.091	1		10/28/16 22:21	107-02-8	
Acrylonitrile	ND	mg/kg	0.091	1		10/28/16 22:21	107-13-1	
Benzene	ND	mg/kg	0.0046	1		10/28/16 22:21	71-43-2	
Bromobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	108-86-1	
Bromochloromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	75-27-4	
Bromoform	ND	mg/kg	0.0046	1		10/28/16 22:21	75-25-2	
Bromomethane	ND	mg/kg	0.0046	1		10/28/16 22:21	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		10/28/16 22:21	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	98-06-6	
Carbon disulfide	ND	mg/kg	0.0091	1		10/28/16 22:21	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0046	1		10/28/16 22:21	56-23-5	
Chlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	108-90-7	
Chloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	75-00-3	
Chloroform	ND	mg/kg	0.0046	1		10/28/16 22:21	67-66-3	
Chloromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0046	1		10/28/16 22:21	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0046	1		10/28/16 22:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0091	1		10/28/16 22:21	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0046	1		10/28/16 22:21	106-93-4	
Dibromomethane	ND	mg/kg	0.0046	1		10/28/16 22:21	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.091	1		10/28/16 22:21	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0046	1		10/28/16 22:21	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0046	1		10/28/16 22:21	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0046	1		10/28/16 22:21	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0046	1		10/28/16 22:21	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0046	1		10/28/16 22:21	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0046	1		10/28/16 22:21	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0046	1		10/28/16 22:21	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0046	1		10/28/16 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0046	1		10/28/16 22:21	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.091	1		10/28/16 22:21	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0046	1		10/28/16 22:21	87-68-3	
n-Hexane	ND	mg/kg	0.0046	1		10/28/16 22:21	110-54-3	
2-Hexanone	ND	mg/kg	0.091	1		10/28/16 22:21	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-3(12-14') **Lab ID: 50157392010** Collected: 10/24/16 10:40 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.091	1		10/28/16 22:21	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1		10/28/16 22:21	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0046	1		10/28/16 22:21	99-87-6	
Methylene Chloride	ND	mg/kg	0.018	1		10/28/16 22:21	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0091	1		10/28/16 22:21	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0097	1		10/31/16 19:59	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		10/28/16 22:21	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1		10/28/16 22:21	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1		10/31/16 19:59	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	103-65-1	
Styrene	ND	mg/kg	0.0046	1		10/28/16 22:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	79-34-5	
Tetrachloroethene	**0.26**	mg/kg	0.0048	1		10/31/16 19:59	127-18-4	
Toluene	ND	mg/kg	0.0046	1		10/28/16 22:21	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0046	1		10/28/16 22:21	79-00-5	
Trichloroethene	ND	mg/kg	0.0046	1		10/28/16 22:21	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0046	1		10/28/16 22:21	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0046	1		10/28/16 22:21	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1		10/28/16 22:21	108-67-8	
Vinyl acetate	ND	mg/kg	0.091	1		10/28/16 22:21	108-05-4	
Vinyl chloride	ND	mg/kg	0.0046	1		10/28/16 22:21	75-01-4	
Xylene (Total)	ND	mg/kg	0.0091	1		10/28/16 22:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	70-128	1		10/28/16 22:21	1868-53-7	
Toluene-d8 (S)	103	%.	72-139	1		10/28/16 22:21	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	65-127	1		10/28/16 22:21	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**10.1**	%	0.10	1		10/27/16 17:07		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4(1-2') **Lab ID: 50157392011** Collected: 10/24/16 11:45 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	2.4	25		10/28/16 21:24	67-64-1	
Acrolein	ND	mg/kg	2.4	25		10/28/16 21:24	107-02-8	
Acrylonitrile	ND	mg/kg	2.4	25		10/28/16 21:24	107-13-1	
Benzene	ND	mg/kg	0.12	25		10/28/16 21:24	71-43-2	1d
Bromobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	108-86-1	
Bromochloromethane	ND	mg/kg	0.12	25		10/28/16 21:24	74-97-5	
Bromodichloromethane	ND	mg/kg	0.12	25		10/28/16 21:24	75-27-4	
Bromoform	ND	mg/kg	0.12	25		10/28/16 21:24	75-25-2	
Bromomethane	ND	mg/kg	0.12	25		10/28/16 21:24	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.59	25		10/28/16 21:24	78-93-3	
n-Butylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	98-06-6	
Carbon disulfide	ND	mg/kg	0.24	25		10/28/16 21:24	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.12	25		10/28/16 21:24	56-23-5	
Chlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	108-90-7	
Chloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	75-00-3	
Chloroform	ND	mg/kg	0.12	25		10/28/16 21:24	67-66-3	
Chloromethane	ND	mg/kg	0.12	25		10/28/16 21:24	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.12	25		10/28/16 21:24	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.12	25		10/28/16 21:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.24	25		10/28/16 21:24	96-12-8	
Dibromochloromethane	ND	mg/kg	0.12	25		10/28/16 21:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.12	25		10/28/16 21:24	106-93-4	
Dibromomethane	ND	mg/kg	0.12	25		10/28/16 21:24	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	2.4	25		10/28/16 21:24	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.12	25		10/28/16 21:24	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.12	25		10/28/16 21:24	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.12	25		10/28/16 21:24	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.12	25		10/28/16 21:24	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.12	25		10/28/16 21:24	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.12	25		10/28/16 21:24	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.12	25		10/28/16 21:24	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.12	25		10/28/16 21:24	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.12	25		10/28/16 21:24	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.12	25		10/28/16 21:24	10061-02-6	
Ethylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	100-41-4	
Ethyl methacrylate	ND	mg/kg	2.4	25		10/28/16 21:24	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.12	25		10/28/16 21:24	87-68-3	
n-Hexane	ND	mg/kg	0.12	25		10/28/16 21:24	110-54-3	
2-Hexanone	ND	mg/kg	2.4	25		10/28/16 21:24	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4(1-2') **Lab ID: 50157392011** Collected: 10/24/16 11:45 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	2.4	25		10/28/16 21:24	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.12	25		10/28/16 21:24	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.12	25		10/28/16 21:24	99-87-6	
Methylene Chloride	ND	mg/kg	0.47	25		10/28/16 21:24	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.24	25		10/28/16 21:24	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.24	25		10/28/16 21:24	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.59	25		10/28/16 21:24	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.12	25		10/28/16 21:24	1634-04-4	
Naphthalene	ND	mg/kg	0.12	25		10/28/16 21:24	91-20-3	
n-Propylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	103-65-1	
Styrene	ND	mg/kg	0.12	25		10/28/16 21:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	79-34-5	
Tetrachloroethene	**21.4**	mg/kg	1.2	250		10/31/16 16:20	127-18-4	
Toluene	ND	mg/kg	0.12	25		10/28/16 21:24	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.12	25		10/28/16 21:24	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.12	25		10/28/16 21:24	79-00-5	
Trichloroethene	ND	mg/kg	0.12	25		10/28/16 21:24	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.12	25		10/28/16 21:24	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.12	25		10/28/16 21:24	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.12	25		10/28/16 21:24	108-67-8	
Vinyl acetate	ND	mg/kg	2.4	25		10/28/16 21:24	108-05-4	
Vinyl chloride	ND	mg/kg	0.12	25		10/28/16 21:24	75-01-4	
Xylene (Total)	ND	mg/kg	0.24	25		10/28/16 21:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	70-128	25		10/28/16 21:24	1868-53-7	D4
Toluene-d8 (S)	103	%.	72-139	25		10/28/16 21:24	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	65-127	25		10/28/16 21:24	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**2.6**	%	0.10	1		10/27/16 17:07		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4(1-2')DUP **Lab ID: 50157392012** Collected: 10/24/16 11:45 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	3.0	25		10/29/16 05:53	67-64-1	
Acrolein	ND	mg/kg	3.0	25		10/29/16 05:53	107-02-8	
Acrylonitrile	ND	mg/kg	3.0	25		10/29/16 05:53	107-13-1	
Benzene	ND	mg/kg	0.15	25		10/29/16 05:53	71-43-2	1d
Bromobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	108-86-1	
Bromochloromethane	ND	mg/kg	0.15	25		10/29/16 05:53	74-97-5	
Bromodichloromethane	ND	mg/kg	0.15	25		10/29/16 05:53	75-27-4	
Bromoform	ND	mg/kg	0.15	25		10/29/16 05:53	75-25-2	
Bromomethane	ND	mg/kg	0.15	25		10/29/16 05:53	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.75	25		10/29/16 05:53	78-93-3	
n-Butylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	98-06-6	
Carbon disulfide	ND	mg/kg	0.30	25		10/29/16 05:53	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.15	25		10/29/16 05:53	56-23-5	
Chlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	108-90-7	
Chloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	75-00-3	
Chloroform	ND	mg/kg	0.15	25		10/29/16 05:53	67-66-3	
Chloromethane	ND	mg/kg	0.15	25		10/29/16 05:53	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.15	25		10/29/16 05:53	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.15	25		10/29/16 05:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.30	25		10/29/16 05:53	96-12-8	
Dibromochloromethane	ND	mg/kg	0.15	25		10/29/16 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.15	25		10/29/16 05:53	106-93-4	
Dibromomethane	ND	mg/kg	0.15	25		10/29/16 05:53	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	3.0	25		10/29/16 05:53	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.15	25		10/29/16 05:53	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.15	25		10/29/16 05:53	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.15	25		10/29/16 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.15	25		10/29/16 05:53	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.15	25		10/29/16 05:53	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.15	25		10/29/16 05:53	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.15	25		10/29/16 05:53	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.15	25		10/29/16 05:53	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.15	25		10/29/16 05:53	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.15	25		10/29/16 05:53	10061-02-6	
Ethylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	100-41-4	
Ethyl methacrylate	ND	mg/kg	3.0	25		10/29/16 05:53	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.15	25		10/29/16 05:53	87-68-3	
n-Hexane	ND	mg/kg	0.15	25		10/29/16 05:53	110-54-3	
2-Hexanone	ND	mg/kg	3.0	25		10/29/16 05:53	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: KB-4(1-2')DUP **Lab ID: 50157392012** Collected: 10/24/16 11:45 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	3.0	25		10/29/16 05:53	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.15	25		10/29/16 05:53	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.15	25		10/29/16 05:53	99-87-6	
Methylene Chloride	ND	mg/kg	0.60	25		10/29/16 05:53	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.30	25		10/29/16 05:53	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.30	25		10/29/16 05:53	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.75	25		10/29/16 05:53	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.15	25		10/29/16 05:53	1634-04-4	
Naphthalene	ND	mg/kg	0.15	25		10/29/16 05:53	91-20-3	
n-Propylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	103-65-1	
Styrene	ND	mg/kg	0.15	25		10/29/16 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	79-34-5	
Tetrachloroethene	**18.3**	mg/kg	1.5	250		10/31/16 16:47	127-18-4	
Toluene	ND	mg/kg	0.15	25		10/29/16 05:53	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.15	25		10/29/16 05:53	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.15	25		10/29/16 05:53	79-00-5	
Trichloroethene	ND	mg/kg	0.15	25		10/29/16 05:53	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.15	25		10/29/16 05:53	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.15	25		10/29/16 05:53	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.15	25		10/29/16 05:53	108-67-8	
Vinyl acetate	ND	mg/kg	3.0	25		10/29/16 05:53	108-05-4	
Vinyl chloride	ND	mg/kg	0.15	25		10/29/16 05:53	75-01-4	
Xylene (Total)	ND	mg/kg	0.30	25		10/29/16 05:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	89	%.	70-128	25		10/29/16 05:53	1868-53-7	D4
Toluene-d8 (S)	102	%.	72-139	25		10/29/16 05:53	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	65-127	25		10/29/16 05:53	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**2.8**	%	0.10	1		10/27/16 17:07		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-1(0-1') **Lab ID: 50157392013** Collected: 10/25/16 09:32 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.10	1		10/28/16 22:59	67-64-1	
Acrolein	ND	mg/kg	0.10	1		10/28/16 22:59	107-02-8	
Acrylonitrile	ND	mg/kg	0.10	1		10/28/16 22:59	107-13-1	
Benzene	ND	mg/kg	0.0050	1		10/28/16 22:59	71-43-2	
Bromobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	108-86-1	
Bromochloromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	75-27-4	
Bromoform	ND	mg/kg	0.0050	1		10/28/16 22:59	75-25-2	
Bromomethane	ND	mg/kg	0.0050	1		10/28/16 22:59	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.025	1		10/28/16 22:59	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	98-06-6	
Carbon disulfide	ND	mg/kg	0.010	1		10/28/16 22:59	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0050	1		10/28/16 22:59	56-23-5	
Chlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	108-90-7	
Chloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	75-00-3	
Chloroform	ND	mg/kg	0.0050	1		10/28/16 22:59	67-66-3	
Chloromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0050	1		10/28/16 22:59	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0050	1		10/28/16 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.010	1		10/28/16 22:59	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0050	1		10/28/16 22:59	106-93-4	
Dibromomethane	ND	mg/kg	0.0050	1		10/28/16 22:59	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.10	1		10/28/16 22:59	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1		10/28/16 22:59	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 22:59	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 22:59	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0050	1		10/28/16 22:59	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 22:59	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	1		10/28/16 22:59	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.10	1		10/28/16 22:59	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0050	1		10/28/16 22:59	87-68-3	
n-Hexane	ND	mg/kg	0.0050	1		10/28/16 22:59	110-54-3	
2-Hexanone	ND	mg/kg	0.10	1		10/28/16 22:59	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-1(0-1') **Lab ID: 50157392013** Collected: 10/25/16 09:32 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.10	1		10/28/16 22:59	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0050	1		10/28/16 22:59	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0050	1		10/28/16 22:59	99-87-6	
Methylene Chloride	ND	mg/kg	0.020	1		10/28/16 22:59	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.010	1		10/28/16 22:59	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.010	1		10/28/16 22:59	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.025	1		10/28/16 22:59	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0050	1		10/28/16 22:59	1634-04-4	
Naphthalene	ND	mg/kg	0.0050	1		10/28/16 22:59	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	103-65-1	
Styrene	ND	mg/kg	0.0050	1		10/28/16 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	79-34-5	
Tetrachloroethene	**0.17**	mg/kg	0.0050	1		10/28/16 22:59	127-18-4	
Toluene	ND	mg/kg	0.0050	1		10/28/16 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0050	1		10/28/16 22:59	79-00-5	
Trichloroethene	ND	mg/kg	0.0050	1		10/28/16 22:59	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0050	1		10/28/16 22:59	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0050	1		10/28/16 22:59	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	1		10/28/16 22:59	108-67-8	
Vinyl acetate	ND	mg/kg	0.10	1		10/28/16 22:59	108-05-4	
Vinyl chloride	ND	mg/kg	0.0050	1		10/28/16 22:59	75-01-4	
Xylene (Total)	ND	mg/kg	0.010	1		10/28/16 22:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	70-128	1		10/28/16 22:59	1868-53-7	
Toluene-d8 (S)	105	%.	72-139	1		10/28/16 22:59	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	65-127	1		10/28/16 22:59	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**6.1**	%	0.10	1		10/27/16 17:07		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-2(0-1') **Lab ID: 50157392014** Collected: 10/25/16 10:00 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.094	1		10/28/16 23:36	67-64-1	
Acrolein	ND	mg/kg	0.094	1		10/28/16 23:36	107-02-8	
Acrylonitrile	ND	mg/kg	0.094	1		10/28/16 23:36	107-13-1	
Benzene	ND	mg/kg	0.0047	1		10/28/16 23:36	71-43-2	
Bromobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	108-86-1	
Bromochloromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	75-27-4	
Bromoform	ND	mg/kg	0.0047	1		10/28/16 23:36	75-25-2	
Bromomethane	ND	mg/kg	0.0047	1		10/28/16 23:36	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.023	1		10/28/16 23:36	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	98-06-6	
Carbon disulfide	ND	mg/kg	0.0094	1		10/28/16 23:36	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0047	1		10/28/16 23:36	56-23-5	
Chlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	108-90-7	
Chloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	75-00-3	
Chloroform	ND	mg/kg	0.0047	1		10/28/16 23:36	67-66-3	
Chloromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0047	1		10/28/16 23:36	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0047	1		10/28/16 23:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0094	1		10/28/16 23:36	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0047	1		10/28/16 23:36	106-93-4	
Dibromomethane	ND	mg/kg	0.0047	1		10/28/16 23:36	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.094	1		10/28/16 23:36	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0047	1		10/28/16 23:36	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0047	1		10/28/16 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0047	1		10/28/16 23:36	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0047	1		10/28/16 23:36	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0047	1		10/28/16 23:36	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0047	1		10/28/16 23:36	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0047	1		10/28/16 23:36	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0047	1		10/28/16 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0047	1		10/28/16 23:36	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.094	1		10/28/16 23:36	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0047	1		10/28/16 23:36	87-68-3	
n-Hexane	ND	mg/kg	0.0047	1		10/28/16 23:36	110-54-3	
2-Hexanone	ND	mg/kg	0.094	1		10/28/16 23:36	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-2(0-1') **Lab ID: 50157392014** Collected: 10/25/16 10:00 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.094	1		10/28/16 23:36	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1		10/28/16 23:36	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0047	1		10/28/16 23:36	99-87-6	
Methylene Chloride	ND	mg/kg	0.019	1		10/28/16 23:36	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0094	1		10/28/16 23:36	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0094	1		10/31/16 19:32	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.023	1		10/28/16 23:36	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1		10/28/16 23:36	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1		10/31/16 19:32	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	103-65-1	
Styrene	ND	mg/kg	0.0047	1		10/28/16 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	79-34-5	
Tetrachloroethene	**0.28**	mg/kg	0.0047	1		10/28/16 23:36	127-18-4	
Toluene	ND	mg/kg	0.0047	1		10/28/16 23:36	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0047	1		10/28/16 23:36	79-00-5	
Trichloroethene	ND	mg/kg	0.0047	1		10/28/16 23:36	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0047	1		10/28/16 23:36	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0047	1		10/28/16 23:36	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1		10/28/16 23:36	108-67-8	
Vinyl acetate	ND	mg/kg	0.094	1		10/28/16 23:36	108-05-4	
Vinyl chloride	ND	mg/kg	0.0047	1		10/28/16 23:36	75-01-4	
Xylene (Total)	ND	mg/kg	0.0094	1		10/28/16 23:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	70-128	1		10/28/16 23:36	1868-53-7	
Toluene-d8 (S)	116	%.	72-139	1		10/28/16 23:36	2037-26-5	
4-Bromofluorobenzene (S)	83	%.	65-127	1		10/28/16 23:36	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**6.8**	%	0.10	1		10/27/16 17:07		

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-3(0-1') **Lab ID: 50157392015** Collected: 10/25/16 10:15 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	mg/kg	0.059	1		10/29/16 01:29	67-64-1	
Acrolein	ND	mg/kg	0.059	1		10/29/16 01:29	107-02-8	
Acrylonitrile	ND	mg/kg	0.059	1		10/29/16 01:29	107-13-1	
Benzene	ND	mg/kg	0.0030	1		10/29/16 01:29	71-43-2	
Bromobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	108-86-1	
Bromochloromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	74-97-5	
Bromodichloromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	75-27-4	
Bromoform	ND	mg/kg	0.0030	1		10/29/16 01:29	75-25-2	
Bromomethane	ND	mg/kg	0.0030	1		10/29/16 01:29	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.015	1		10/29/16 01:29	78-93-3	
n-Butylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	98-06-6	
Carbon disulfide	ND	mg/kg	0.0059	1		10/29/16 01:29	75-15-0	
Carbon tetrachloride	ND	mg/kg	0.0030	1		10/29/16 01:29	56-23-5	
Chlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	108-90-7	
Chloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	75-00-3	
Chloroform	ND	mg/kg	0.0030	1		10/29/16 01:29	67-66-3	
Chloromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.0030	1		10/29/16 01:29	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.0030	1		10/29/16 01:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0059	1		10/29/16 01:29	96-12-8	
Dibromochloromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0030	1		10/29/16 01:29	106-93-4	
Dibromomethane	ND	mg/kg	0.0030	1		10/29/16 01:29	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.059	1		10/29/16 01:29	110-57-6	
Dichlorodifluoromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.0030	1		10/29/16 01:29	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.0030	1		10/29/16 01:29	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0030	1		10/29/16 01:29	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.0030	1		10/29/16 01:29	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.0030	1		10/29/16 01:29	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.0030	1		10/29/16 01:29	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.0030	1		10/29/16 01:29	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.0030	1		10/29/16 01:29	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.0030	1		10/29/16 01:29	10061-02-6	
Ethylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	100-41-4	
Ethyl methacrylate	ND	mg/kg	0.059	1		10/29/16 01:29	97-63-2	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0030	1		10/29/16 01:29	87-68-3	
n-Hexane	ND	mg/kg	0.0030	1		10/29/16 01:29	110-54-3	
2-Hexanone	ND	mg/kg	0.059	1		10/29/16 01:29	591-78-6	

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ANALYTICAL RESULTS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Sample: HA-3(0-1') **Lab ID: 50157392015** Collected: 10/25/16 10:15 Received: 10/25/16 13:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Iodomethane	ND	mg/kg	0.059	1		10/29/16 01:29	74-88-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0030	1		10/29/16 01:29	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.0030	1		10/29/16 01:29	99-87-6	
Methylene Chloride	ND	mg/kg	0.012	1		10/29/16 01:29	75-09-2	
1-Methylnaphthalene	ND	mg/kg	0.0059	1		10/29/16 01:29	90-12-0	N2
2-Methylnaphthalene	ND	mg/kg	0.0059	1		10/29/16 01:29	91-57-6	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.015	1		10/29/16 01:29	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.0030	1		10/29/16 01:29	1634-04-4	
Naphthalene	ND	mg/kg	0.0030	1		10/29/16 01:29	91-20-3	
n-Propylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	103-65-1	
Styrene	ND	mg/kg	0.0030	1		10/29/16 01:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	79-34-5	
Tetrachloroethene	**3.0**	mg/kg	0.091	25		10/31/16 17:15	127-18-4	
Toluene	ND	mg/kg	0.0030	1		10/29/16 01:29	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.0030	1		10/29/16 01:29	79-00-5	
Trichloroethene	ND	mg/kg	0.0030	1		10/29/16 01:29	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.0030	1		10/29/16 01:29	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0030	1		10/29/16 01:29	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0030	1		10/29/16 01:29	108-67-8	
Vinyl acetate	ND	mg/kg	0.059	1		10/29/16 01:29	108-05-4	
Vinyl chloride	ND	mg/kg	0.0030	1		10/29/16 01:29	75-01-4	
Xylene (Total)	ND	mg/kg	0.0059	1		10/29/16 01:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	70-128	1		10/29/16 01:29	1868-53-7	
Toluene-d8 (S)	108	%.	72-139	1		10/29/16 01:29	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	65-127	1		10/29/16 01:29	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
Percent Moisture	**5.1**	%	0.10	1		10/27/16 17:07		R1

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358751 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50157392001, 50157392002, 50157392004

METHOD BLANK: 1658339 Matrix: Water
Associated Lab Samples: 50157392001, 50157392002, 50157392004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,1-Dichloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,1-Dichloroethene	ug/L	ND	5.0	10/28/16 10:18	
1,1-Dichloropropene	ug/L	ND	5.0	10/28/16 10:18	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/28/16 10:18	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/28/16 10:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	10/28/16 10:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/28/16 10:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
1,2-Dichloroethane	ug/L	ND	5.0	10/28/16 10:18	
1,2-Dichloropropane	ug/L	ND	5.0	10/28/16 10:18	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/28/16 10:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
1,3-Dichloropropane	ug/L	ND	5.0	10/28/16 10:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
1-Methylnaphthalene	ug/L	ND	5.0	10/28/16 10:18	N2
2,2-Dichloropropane	ug/L	ND	5.0	10/28/16 10:18	
2-Butanone (MEK)	ug/L	ND	25.0	10/28/16 10:18	
2-Chlorotoluene	ug/L	ND	5.0	10/28/16 10:18	
2-Hexanone	ug/L	ND	25.0	10/28/16 10:18	
2-Methylnaphthalene	ug/L	ND	10.0	10/28/16 10:18	
4-Chlorotoluene	ug/L	ND	5.0	10/28/16 10:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/28/16 10:18	
Acetone	ug/L	ND	100	10/28/16 10:18	
Acrolein	ug/L	ND	50.0	10/28/16 10:18	
Acrylonitrile	ug/L	ND	100	10/28/16 10:18	
Benzene	ug/L	ND	5.0	10/28/16 10:18	
Bromobenzene	ug/L	ND	5.0	10/28/16 10:18	
Bromochloromethane	ug/L	ND	5.0	10/28/16 10:18	
Bromodichloromethane	ug/L	ND	5.0	10/28/16 10:18	
Bromoform	ug/L	ND	5.0	10/28/16 10:18	
Bromomethane	ug/L	ND	5.0	10/28/16 10:18	
Carbon disulfide	ug/L	ND	10.0	10/28/16 10:18	
Carbon tetrachloride	ug/L	ND	5.0	10/28/16 10:18	
Chlorobenzene	ug/L	ND	5.0	10/28/16 10:18	
Chloroethane	ug/L	ND	5.0	10/28/16 10:18	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

METHOD BLANK: 1658339 Matrix: Water
Associated Lab Samples: 50157392001, 50157392002, 50157392004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	5.0	10/28/16 10:18	
Chloromethane	ug/L	ND	5.0	10/28/16 10:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/28/16 10:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/28/16 10:18	
Dibromochloromethane	ug/L	ND	5.0	10/28/16 10:18	
Dibromomethane	ug/L	ND	5.0	10/28/16 10:18	
Dichlorodifluoromethane	ug/L	ND	5.0	10/28/16 10:18	
Ethyl methacrylate	ug/L	ND	100	10/28/16 10:18	
Ethylbenzene	ug/L	ND	5.0	10/28/16 10:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/28/16 10:18	
Iodomethane	ug/L	ND	10.0	10/28/16 10:18	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/28/16 10:18	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/28/16 10:18	
Methylene Chloride	ug/L	ND	5.0	10/28/16 10:18	
n-Butylbenzene	ug/L	ND	5.0	10/28/16 10:18	
n-Hexane	ug/L	ND	5.0	10/28/16 10:18	
n-Propylbenzene	ug/L	ND	5.0	10/28/16 10:18	
Naphthalene	ug/L	ND	1.7	10/28/16 10:18	
p-Isopropyltoluene	ug/L	ND	5.0	10/28/16 10:18	
sec-Butylbenzene	ug/L	ND	5.0	10/28/16 10:18	
Styrene	ug/L	ND	5.0	10/28/16 10:18	
tert-Butylbenzene	ug/L	ND	5.0	10/28/16 10:18	
Tetrachloroethene	ug/L	ND	5.0	10/28/16 10:18	
Toluene	ug/L	ND	5.0	10/28/16 10:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/28/16 10:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/28/16 10:18	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/28/16 10:18	
Trichloroethene	ug/L	ND	5.0	10/28/16 10:18	
Trichlorofluoromethane	ug/L	ND	5.0	10/28/16 10:18	
Vinyl acetate	ug/L	ND	50.0	10/28/16 10:18	
Vinyl chloride	ug/L	ND	2.0	10/28/16 10:18	
Xylene (Total)	ug/L	ND	10.0	10/28/16 10:18	
4-Bromofluorobenzene (S)	%.	103	79-116	10/28/16 10:18	
Dibromofluoromethane (S)	%.	98	84-118	10/28/16 10:18	
Toluene-d8 (S)	%.	100	86-110	10/28/16 10:18	

LABORATORY CONTROL SAMPLE: 1658340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	74-130	
1,1,1-Trichloroethane	ug/L	50	51.0	102	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	48.0	96	72-124	
1,1,2-Trichloroethane	ug/L	50	47.9	96	75-125	
1,1-Dichloroethane	ug/L	50	50.0	100	70-120	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	52.9	106	69-127	
1,1-Dichloropropene	ug/L	50	52.0	104	81-129	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	71-130	
1,2,3-Trichloropropane	ug/L	50	48.5	97	77-127	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	66-126	
1,2,4-Trimethylbenzene	ug/L	50	51.0	102	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	76-125	
1,2-Dichlorobenzene	ug/L	50	50.1	100	77-122	
1,2-Dichloroethane	ug/L	50	47.4	95	70-123	
1,2-Dichloropropane	ug/L	50	49.8	100	77-124	
1,3,5-Trimethylbenzene	ug/L	50	51.5	103	75-124	
1,3-Dichlorobenzene	ug/L	50	51.2	102	76-124	
1,3-Dichloropropane	ug/L	50	51.3	103	77-123	
1,4-Dichlorobenzene	ug/L	50	50.0	100	75-117	
1-Methylnaphthalene	ug/L	50	55.6	111	55-151	N2
2,2-Dichloropropane	ug/L	50	56.1	112	44-147	
2-Butanone (MEK)	ug/L	250	300	120	60-135	
2-Chlorotoluene	ug/L	50	51.0	102	75-124	
2-Hexanone	ug/L	250	258	103	65-139	
2-Methylnaphthalene	ug/L	50	49.1	98	58-148	
4-Chlorotoluene	ug/L	50	50.4	101	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	231	93	66-134	
Acetone	ug/L	250	337	135	47-144	
Acrolein	ug/L	1000	1310	131	31-200	
Acrylonitrile	ug/L	200	190	95	64-133	
Benzene	ug/L	50	51.3	103	76-122	
Bromobenzene	ug/L	50	47.5	95	75-117	
Bromochloromethane	ug/L	50	47.3	95	74-134	
Bromodichloromethane	ug/L	50	48.0	96	71-124	
Bromoform	ug/L	50	44.9	90	60-125	
Bromomethane	ug/L	50	61.1	122	23-194	
Carbon disulfide	ug/L	50	48.5	97	63-130	
Carbon tetrachloride	ug/L	50	51.5	103	73-133	
Chlorobenzene	ug/L	50	49.8	100	76-118	
Chloroethane	ug/L	50	51.3	103	50-147	
Chloroform	ug/L	50	49.6	99	70-119	
Chloromethane	ug/L	50	44.6	89	52-136	
cis-1,2-Dichloroethene	ug/L	50	51.9	104	74-120	
cis-1,3-Dichloropropene	ug/L	50	54.2	108	71-134	
Dibromochloromethane	ug/L	50	49.2	98	73-127	
Dibromomethane	ug/L	50	48.6	97	75-124	
Dichlorodifluoromethane	ug/L	50	54.7	109	39-166	
Ethyl methacrylate	ug/L	200	208	104	73-136	
Ethylbenzene	ug/L	50	52.6	105	75-123	
Hexachloro-1,3-butadiene	ug/L	50	54.5	109	70-125	
Iodomethane	ug/L	100	113	113	56-142	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	50	51.6	103	84-134	
Methyl-tert-butyl ether	ug/L	50	50.0	100	65-131	
Methylene Chloride	ug/L	50	53.6	107	66-130	
n-Butylbenzene	ug/L	50	52.7	105	70-127	
n-Hexane	ug/L	50	50.0	100	64-131	
n-Propylbenzene	ug/L	50	53.2	106	78-131	
Naphthalene	ug/L	50	49.7	99	65-134	
p-Isopropyltoluene	ug/L	50	52.1	104	75-124	
sec-Butylbenzene	ug/L	50	53.0	106	83-135	
Styrene	ug/L	50	52.3	105	78-128	
tert-Butylbenzene	ug/L	50	41.3	83	62-114	
Tetrachloroethene	ug/L	50	50.7	101	69-119	
Toluene	ug/L	50	48.0	96	74-122	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	72-122	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	177	88	39-153	
Trichloroethene	ug/L	50	51.1	102	75-123	
Trichlorofluoromethane	ug/L	50	55.6	111	58-148	
Vinyl acetate	ug/L	200	211	105	67-154	
Vinyl chloride	ug/L	50	51.0	102	61-147	
Xylene (Total)	ug/L	150	158	105	75-127	
4-Bromofluorobenzene (S)	%.			101	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			101	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658341 1658342

Parameter	Units	50157392004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.0	51.9	100	104	44-142	4	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.1	54.1	106	108	51-140	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.4	51.9	103	104	49-138	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	53.5	103	107	51-138	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.2	52.5	102	105	48-137	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	53.7	54.4	107	109	51-144	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	52.2	53.1	104	106	54-150	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	47.6	46.9	95	94	32-140	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.8	54.2	106	108	51-139	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	45.0	44.1	90	88	27-134	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	46.2	43.9	91	87	32-143	5	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.6	50.3	91	101	37-127	10	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	55.0	57.5	110	115	52-134	4	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	47.0	45.8	94	92	38-138	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.8	52.6	104	105	44-144	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658341 1658342

Parameter	Units	50157392004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	ND	50	50	53.7	53.5	107	107	56-138	0	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	46.9	44.1	94	88	28-146	6	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	45.7	43.8	91	88	36-139	4	20	
1,3-Dichloropropane	ug/L	ND	50	50	55.4	56.7	111	113	54-137	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	46.0	43.0	92	86	34-134	7	20	
1-Methylnaphthalene	ug/L	ND	50	50	54.4	54.9	107	108	32-150	1	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	55.3	57.0	111	114	20-142	3	20	
2-Butanone (MEK)	ug/L	ND	250	250	270	279	108	112	44-142	3	20	
2-Chlorotoluene	ug/L	ND	50	50	46.0	44.5	92	89	36-143	3	20	
2-Hexanone	ug/L	ND	250	250	253	264	101	106	43-150	4	20	
2-Methylnaphthalene	ug/L	ND	50	50	45.3	47.1	86	90	27-148	4	20	
4-Chlorotoluene	ug/L	ND	50	50	45.2	42.8	90	86	34-143	6	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	249	257	100	103	46-143	3	20	
Acetone	ug/L	ND	250	250	239	241	95	96	33-150	1	20	
Acrolein	ug/L	ND	1000	1000	1390	1420	139	142	32-200	2	20	
Acrylonitrile	ug/L	ND	200	200	203	194	102	97	47-143	5	20	
Benzene	ug/L	ND	50	50	54.2	54.2	108	108	51-140	0	20	
Bromobenzene	ug/L	ND	50	50	45.5	46.1	91	92	41-134	1	20	
Bromochloromethane	ug/L	ND	50	50	48.0	52.8	96	106	53-148	9	20	
Bromodichloromethane	ug/L	ND	50	50	50.5	51.2	101	102	46-137	1	20	
Bromoform	ug/L	ND	50	50	44.6	45.7	89	91	36-127	3	20	
Bromomethane	ug/L	ND	50	50	59.4	64.9	119	130	10-188	9	20	
Carbon disulfide	ug/L	ND	50	50	47.3	48.8	95	98	35-148	3	20	
Carbon tetrachloride	ug/L	ND	50	50	51.9	51.9	104	104	45-151	0	20	
Chlorobenzene	ug/L	ND	50	50	48.8	48.8	98	98	45-138	0	20	
Chloroethane	ug/L	ND	50	50	54.1	54.1	108	108	33-164	0	20	
Chloroform	ug/L	ND	50	50	52.1	53.4	104	107	50-135	2	20	
Chloromethane	ug/L	ND	50	50	50.0	50.6	100	101	38-146	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	58.6	59.0	109	110	43-144	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.8	55.4	108	111	42-136	3	20	
Dibromochloromethane	ug/L	ND	50	50	51.8	53.1	104	106	45-136	3	20	
Dibromomethane	ug/L	ND	50	50	52.4	54.1	105	108	51-139	3	20	
Dichlorodifluoromethane	ug/L	ND	50	50	60.2	60.6	120	121	29-174	1	20	
Ethyl methacrylate	ug/L	ND	200	200	224	229	112	114	44-150	2	20	
Ethylbenzene	ug/L	ND	50	50	49.8	49.9	100	100	36-146	0	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	43.2	39.4	86	79	14-150	9	20	
Iodomethane	ug/L	ND	100	100	116	118	116	118	28-153	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	47.9	47.2	96	94	43-159	1	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	55.8	55.6	112	111	43-146	0	20	
Methylene Chloride	ug/L	ND	50	50	55.4	56.1	109	110	48-140	1	20	
n-Butylbenzene	ug/L	ND	50	50	42.8	40.3	86	81	16-152	6	20	
n-Hexane	ug/L	ND	50	50	52.3	52.7	105	105	40-144	1	20	
n-Propylbenzene	ug/L	ND	50	50	47.0	44.3	94	89	28-157	6	20	
Naphthalene	ug/L	ND	50	50	49.2	50.5	97	100	38-141	3	20	
p-Isopropyltoluene	ug/L	ND	50	50	45.0	42.4	90	85	21-151	6	20	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658341 1658342

Parameter	Units	50157392004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
sec-Butylbenzene	ug/L	ND	50	50	45.9	44.1	92	88	27-165	4	20	
Styrene	ug/L	ND	50	50	51.0	51.4	102	103	31-148	1	20	
tert-Butylbenzene	ug/L	ND	50	50	37.3	35.7	75	71	24-131	4	20	
Tetrachloroethene	ug/L	1170	50	50	1410	1410	469	476	38-139	0	20	M1
Toluene	ug/L	ND	50	50	47.3	48.5	92	95	44-140	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.4	53.5	107	107	50-139	0	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.5	54.8	107	110	37-138	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	182	186	91	93	10-157	2	20	
Trichloroethene	ug/L	20.6	50	50	73.0	73.4	105	106	44-146	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	59.5	60.1	119	120	41-164	1	20	
Vinyl acetate	ug/L	ND	200	200	223	230	112	115	15-146	3	20	
Vinyl chloride	ug/L	ND	50	50	55.1	55.1	110	110	43-166	0	20	
Xylene (Total)	ug/L	ND	150	150	150	148	100	99	35-146	1	20	
4-Bromofluorobenzene (S)	%.						99	99	79-116			
Dibromofluoromethane (S)	%.						95	96	84-118			
Toluene-d8 (S)	%.						98	100	86-110			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358753 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50157392003, 50157392005, 50157392006

METHOD BLANK: 1658346 Matrix: Water
Associated Lab Samples: 50157392003, 50157392005, 50157392006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,1-Dichloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,1-Dichloroethene	ug/L	ND	5.0	10/28/16 22:00	
1,1-Dichloropropene	ug/L	ND	5.0	10/28/16 22:00	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/28/16 22:00	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	10/28/16 22:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	10/28/16 22:00	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/28/16 22:00	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
1,2-Dichloroethane	ug/L	ND	5.0	10/28/16 22:00	
1,2-Dichloropropane	ug/L	ND	5.0	10/28/16 22:00	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	10/28/16 22:00	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
1,3-Dichloropropane	ug/L	ND	5.0	10/28/16 22:00	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
1-Methylnaphthalene	ug/L	ND	5.0	10/28/16 22:00	N2
2,2-Dichloropropane	ug/L	ND	5.0	10/28/16 22:00	
2-Butanone (MEK)	ug/L	ND	25.0	10/28/16 22:00	
2-Chlorotoluene	ug/L	ND	5.0	10/28/16 22:00	
2-Hexanone	ug/L	ND	25.0	10/28/16 22:00	
2-Methylnaphthalene	ug/L	ND	10.0	10/28/16 22:00	
4-Chlorotoluene	ug/L	ND	5.0	10/28/16 22:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	10/28/16 22:00	
Acetone	ug/L	ND	100	10/28/16 22:00	
Acrolein	ug/L	ND	50.0	10/28/16 22:00	
Acrylonitrile	ug/L	ND	100	10/28/16 22:00	
Benzene	ug/L	ND	5.0	10/28/16 22:00	
Bromobenzene	ug/L	ND	5.0	10/28/16 22:00	
Bromochloromethane	ug/L	ND	5.0	10/28/16 22:00	
Bromodichloromethane	ug/L	ND	5.0	10/28/16 22:00	
Bromoform	ug/L	ND	5.0	10/28/16 22:00	
Bromomethane	ug/L	ND	5.0	10/28/16 22:00	
Carbon disulfide	ug/L	ND	10.0	10/28/16 22:00	
Carbon tetrachloride	ug/L	ND	5.0	10/28/16 22:00	
Chlorobenzene	ug/L	ND	5.0	10/28/16 22:00	
Chloroethane	ug/L	ND	5.0	10/28/16 22:00	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

METHOD BLANK: 1658346 Matrix: Water
Associated Lab Samples: 50157392003, 50157392005, 50157392006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	5.0	10/28/16 22:00	
Chloromethane	ug/L	ND	5.0	10/28/16 22:00	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/28/16 22:00	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/28/16 22:00	
Dibromochloromethane	ug/L	ND	5.0	10/28/16 22:00	
Dibromomethane	ug/L	ND	5.0	10/28/16 22:00	
Dichlorodifluoromethane	ug/L	ND	5.0	10/28/16 22:00	
Ethyl methacrylate	ug/L	ND	100	10/28/16 22:00	
Ethylbenzene	ug/L	ND	5.0	10/28/16 22:00	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	10/28/16 22:00	
Iodomethane	ug/L	ND	10.0	10/28/16 22:00	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	10/28/16 22:00	
Methyl-tert-butyl ether	ug/L	ND	4.0	10/28/16 22:00	
Methylene Chloride	ug/L	ND	5.0	10/28/16 22:00	
n-Butylbenzene	ug/L	ND	5.0	10/28/16 22:00	
n-Hexane	ug/L	ND	5.0	10/28/16 22:00	
n-Propylbenzene	ug/L	ND	5.0	10/28/16 22:00	
Naphthalene	ug/L	ND	1.7	10/28/16 22:00	
p-Isopropyltoluene	ug/L	ND	5.0	10/28/16 22:00	
sec-Butylbenzene	ug/L	ND	5.0	10/28/16 22:00	
Styrene	ug/L	ND	5.0	10/28/16 22:00	
tert-Butylbenzene	ug/L	ND	5.0	10/28/16 22:00	
Tetrachloroethene	ug/L	ND	5.0	10/28/16 22:00	
Toluene	ug/L	ND	5.0	10/28/16 22:00	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/28/16 22:00	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/28/16 22:00	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/28/16 22:00	
Trichloroethene	ug/L	ND	5.0	10/28/16 22:00	
Trichlorofluoromethane	ug/L	ND	5.0	10/28/16 22:00	
Vinyl acetate	ug/L	ND	50.0	10/28/16 22:00	
Vinyl chloride	ug/L	ND	2.0	10/28/16 22:00	
Xylene (Total)	ug/L	ND	10.0	10/28/16 22:00	
4-Bromofluorobenzene (S)	%.	101	79-116	10/28/16 22:00	
Dibromofluoromethane (S)	%.	99	84-118	10/28/16 22:00	
Toluene-d8 (S)	%.	99	86-110	10/28/16 22:00	

LABORATORY CONTROL SAMPLE: 1658347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	74-130	
1,1,1-Trichloroethane	ug/L	50	50.8	102	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	72-124	
1,1,2-Trichloroethane	ug/L	50	51.2	102	75-125	
1,1-Dichloroethane	ug/L	50	48.9	98	70-120	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	50.2	100	69-127	
1,1-Dichloropropene	ug/L	50	50.4	101	81-129	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	71-130	
1,2,3-Trichloropropane	ug/L	50	48.8	98	77-127	
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	66-126	
1,2,4-Trimethylbenzene	ug/L	50	48.9	98	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	46.1	92	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	76-125	
1,2-Dichlorobenzene	ug/L	50	47.8	96	77-122	
1,2-Dichloroethane	ug/L	50	47.7	95	70-123	
1,2-Dichloropropane	ug/L	50	49.5	99	77-124	
1,3,5-Trimethylbenzene	ug/L	50	49.9	100	75-124	
1,3-Dichlorobenzene	ug/L	50	47.5	95	76-124	
1,3-Dichloropropane	ug/L	50	51.9	104	77-123	
1,4-Dichlorobenzene	ug/L	50	47.5	95	75-117	
1-Methylnaphthalene	ug/L	50	54.7	109	55-151	N2
2,2-Dichloropropane	ug/L	50	50.6	101	44-147	
2-Butanone (MEK)	ug/L	250	252	101	60-135	
2-Chlorotoluene	ug/L	50	48.8	98	75-124	
2-Hexanone	ug/L	250	232	93	65-139	
2-Methylnaphthalene	ug/L	50	46.1	92	58-148	
4-Chlorotoluene	ug/L	50	47.6	95	75-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	235	94	66-134	
Acetone	ug/L	250	204	82	47-144	
Acrolein	ug/L	1000	1250	125	31-200	
Acrylonitrile	ug/L	200	193	96	64-133	
Benzene	ug/L	50	50.8	102	76-122	
Bromobenzene	ug/L	50	47.9	96	75-117	
Bromochloromethane	ug/L	50	45.8	92	74-134	
Bromodichloromethane	ug/L	50	49.3	99	71-124	
Bromoform	ug/L	50	44.5	89	60-125	
Bromomethane	ug/L	50	60.1	120	23-194	
Carbon disulfide	ug/L	50	46.6	93	63-130	
Carbon tetrachloride	ug/L	50	49.7	99	73-133	
Chlorobenzene	ug/L	50	48.7	97	76-118	
Chloroethane	ug/L	50	48.6	97	50-147	
Chloroform	ug/L	50	48.7	97	70-119	
Chloromethane	ug/L	50	42.9	86	52-136	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	74-120	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	71-134	
Dibromochloromethane	ug/L	50	50.2	100	73-127	
Dibromomethane	ug/L	50	49.0	98	75-124	
Dichlorodifluoromethane	ug/L	50	53.6	107	39-166	
Ethyl methacrylate	ug/L	200	211	106	73-136	
Ethylbenzene	ug/L	50	51.4	103	75-123	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	70-125	
Iodomethane	ug/L	100	107	107	56-142	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	84-134	
Methyl-tert-butyl ether	ug/L	50	51.1	102	65-131	
Methylene Chloride	ug/L	50	54.9	110	66-130	
n-Butylbenzene	ug/L	50	47.4	95	70-127	
n-Hexane	ug/L	50	48.3	97	64-131	
n-Propylbenzene	ug/L	50	50.4	101	78-131	
Naphthalene	ug/L	50	48.3	97	65-134	
p-Isopropyltoluene	ug/L	50	49.2	98	75-124	
sec-Butylbenzene	ug/L	50	50.8	102	83-135	
Styrene	ug/L	50	52.7	105	78-128	
tert-Butylbenzene	ug/L	50	40.3	81	62-114	
Tetrachloroethene	ug/L	50	49.2	98	69-119	
Toluene	ug/L	50	47.3	95	74-122	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	72-122	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	163	82	39-153	
Trichloroethene	ug/L	50	51.2	102	75-123	
Trichlorofluoromethane	ug/L	50	53.9	108	58-148	
Vinyl acetate	ug/L	200	212	106	67-154	
Vinyl chloride	ug/L	50	49.1	98	61-147	
Xylene (Total)	ug/L	150	155	104	75-127	
4-Bromofluorobenzene (S)	%.			99	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			99	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658348 1658349

Parameter	Units	50157454006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	37.0	41.8	74	84	44-142	12	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	48.1	50.7	96	101	51-140	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.8	48.6	94	97	49-138	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	48.0	53.9	96	108	51-138	11	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.9	53.0	100	106	48-137	6	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.8	54.1	104	108	51-144	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	42.7	45.8	85	92	54-150	7	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	25.5	30.1	51	60	32-140	17	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.0	52.1	104	104	51-139	0	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	21.4	25.9	43	52	27-134	19	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	19.5	22.8	39	46	32-143	16	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.3	46.6	91	93	37-127	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	48.5	53.2	97	106	52-134	9	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	26.2	29.2	52	58	38-138	11	20	
1,2-Dichloroethane	ug/L	ND	50	50	47.7	51.5	95	103	44-144	8	20	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658348 1658349

Parameter	Units	50157454006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	ND	50	50	47.9	50.6	96	101	56-138	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	20.1	22.8	40	46	28-146	13	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	21.8	25.4	44	51	36-139	15	20	
1,3-Dichloropropane	ug/L	ND	50	50	50.3	52.9	101	106	54-137	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	21.6	25.3	43	51	34-134	16	20	
1-Methylnaphthalene	ug/L	ND	50	50	42.7	48.8	85	98	32-150	13	20	N2
2,2-Dichloropropane	ug/L	ND	50	50	49.7	53.4	99	107	20-142	7	20	
2-Butanone (MEK)	ug/L	ND	250	250	299	324	120	130	44-142	8	20	
2-Chlorotoluene	ug/L	ND	50	50	22.6	25.0	45	50	36-143	10	20	
2-Hexanone	ug/L	ND	250	250	247	265	99	106	43-150	7	20	
2-Methylnaphthalene	ug/L	ND	50	50	31.6	37.5	63	75	27-148	17	20	
4-Chlorotoluene	ug/L	ND	50	50	21.0	23.4	42	47	34-143	11	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	250	258	100	103	46-143	3	20	
Acetone	ug/L	ND	250	250	245	250	98	100	33-150	2	20	
Acrolein	ug/L	ND	1000	1000	1160	1200	116	120	32-200	4	20	
Acrylonitrile	ug/L	ND	200	200	202	212	101	106	47-143	5	20	
Benzene	ug/L	ND	50	50	45.7	48.7	91	97	51-140	6	20	
Bromobenzene	ug/L	ND	50	50	28.6	32.7	57	65	41-134	13	20	
Bromochloromethane	ug/L	ND	50	50	47.5	47.6	95	95	53-148	0	20	
Bromodichloromethane	ug/L	ND	50	50	42.4	46.5	85	93	46-137	9	20	
Bromoform	ug/L	ND	50	50	35.1	39.5	70	79	36-127	12	20	
Bromomethane	ug/L	ND	50	50	61.3	67.8	123	136	10-188	10	20	
Carbon disulfide	ug/L	ND	50	50	38.3	43.1	77	86	35-148	12	20	
Carbon tetrachloride	ug/L	ND	50	50	42.5	47.3	85	95	45-151	11	20	
Chlorobenzene	ug/L	ND	50	50	31.7	35.2	63	70	45-138	10	20	
Chloroethane	ug/L	ND	50	50	51.5	57.9	103	116	33-164	12	20	
Chloroform	ug/L	ND	50	50	47.6	49.6	95	99	50-135	4	20	
Chloromethane	ug/L	ND	50	50	47.7	53.5	95	107	38-146	11	20	
cis-1,2-Dichloroethene	ug/L	198	50	50	211	210	27	24	43-144	1	20	M1
cis-1,3-Dichloropropene	ug/L	ND	50	50	42.7	46.7	85	93	42-136	9	20	
Dibromochloromethane	ug/L	ND	50	50	41.8	47.6	84	95	45-136	13	20	
Dibromomethane	ug/L	ND	50	50	49.9	51.3	100	103	51-139	3	20	
Dichlorodifluoromethane	ug/L	ND	50	50	60.5	64.2	121	128	29-174	6	20	
Ethyl methacrylate	ug/L	ND	200	200	211	225	106	113	44-150	6	20	
Ethylbenzene	ug/L	ND	50	50	28.9	31.3	58	63	36-146	8	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	9.2	12.8	18	26	14-150	32	20	R1
Iodomethane	ug/L	ND	100	100	112	120	112	120	28-153	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	23.8	26.8	48	54	43-159	11	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.8	57.7	110	115	43-146	5	20	
Methylene Chloride	ug/L	ND	50	50	52.0	54.7	104	109	48-140	5	20	
n-Butylbenzene	ug/L	ND	50	50	11.9	14.5	24	29	16-152	20	20	
n-Hexane	ug/L	ND	50	50	45.1	47.6	90	95	40-144	5	20	
n-Propylbenzene	ug/L	ND	50	50	19.1	21.5	38	43	28-157	12	20	
Naphthalene	ug/L	ND	50	50	37.5	41.3	75	83	38-141	10	20	
p-Isopropyltoluene	ug/L	ND	50	50	14.8	17.7	30	35	21-151	18	20	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658348 1658349

Parameter	Units	50157454006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
sec-Butylbenzene	ug/L	ND	50	50	17.0	19.6	34	39	27-165	14	20	
Styrene	ug/L	ND	50	50	30.9	34.7	62	69	31-148	12	20	
tert-Butylbenzene	ug/L	ND	50	50	16.3	18.8	33	38	24-131	14	20	
Tetrachloroethene	ug/L	ND	50	50	31.2	33.3	62	67	38-139	7	20	
Toluene	ug/L	ND	50	50	35.1	36.8	69	72	44-140	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.8	50.2	96	100	50-139	5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.4	47.6	85	95	37-138	12	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	145	161	73	80	10-157	10	20	
Trichloroethene	ug/L	55.2	50	50	80.0	83.9	50	57	44-146	5	20	
Trichlorofluoromethane	ug/L	ND	50	50	59.2	63.1	118	126	41-164	6	20	
Vinyl acetate	ug/L	ND	200	200	150	158	75	79	15-146	6	20	
Vinyl chloride	ug/L	ND	50	50	55.1	59.3	110	119	43-166	7	20	
Xylene (Total)	ug/L	ND	150	150	85.7	95.4	57	64	35-146	11	20	
4-Bromofluorobenzene (S)	%.						102	100	79-116			
Dibromofluoromethane (S)	%.						98	99	84-118			
Toluene-d8 (S)	%.						100	100	86-110			

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358785 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50157392007, 50157392008, 50157392009, 50157392010, 50157392013, 50157392014, 50157392015

METHOD BLANK: 1658564 Matrix: Solid
Associated Lab Samples: 50157392007, 50157392008, 50157392009, 50157392010, 50157392013, 50157392014, 50157392015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,1-Dichloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,1-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:42	
1,1-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:42	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	10/28/16 16:42	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.010	10/28/16 16:42	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	10/28/16 16:42	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,2-Dichloroethane	mg/kg	ND	0.0050	10/28/16 16:42	
1,2-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:42	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1,3-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:42	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
1-Methylnaphthalene	mg/kg	ND	0.010	10/28/16 16:42	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:42	
2-Butanone (MEK)	mg/kg	ND	0.025	10/28/16 16:42	
2-Chlorotoluene	mg/kg	ND	0.0050	10/28/16 16:42	
2-Hexanone	mg/kg	ND	0.10	10/28/16 16:42	
2-Methylnaphthalene	mg/kg	ND	0.010	10/28/16 16:42	
4-Chlorotoluene	mg/kg	ND	0.0050	10/28/16 16:42	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	10/28/16 16:42	
Acetone	mg/kg	ND	0.10	10/28/16 16:42	
Acrolein	mg/kg	ND	0.10	10/28/16 16:42	
Acrylonitrile	mg/kg	ND	0.10	10/28/16 16:42	
Benzene	mg/kg	ND	0.0050	10/28/16 16:42	
Bromobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Bromochloromethane	mg/kg	ND	0.0050	10/28/16 16:42	
Bromodichloromethane	mg/kg	ND	0.0050	10/28/16 16:42	
Bromoform	mg/kg	ND	0.0050	10/28/16 16:42	
Bromomethane	mg/kg	ND	0.0050	10/28/16 16:42	
Carbon disulfide	mg/kg	ND	0.010	10/28/16 16:42	
Carbon tetrachloride	mg/kg	ND	0.0050	10/28/16 16:42	
Chlorobenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Chloroethane	mg/kg	ND	0.0050	10/28/16 16:42	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

METHOD BLANK: 1658564 Matrix: Solid
Associated Lab Samples: 50157392007, 50157392008, 50157392009, 50157392010, 50157392013, 50157392014, 50157392015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	mg/kg	ND	0.0050	10/28/16 16:42	
Chloromethane	mg/kg	ND	0.0050	10/28/16 16:42	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:42	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:42	
Dibromochloromethane	mg/kg	ND	0.0050	10/28/16 16:42	
Dibromomethane	mg/kg	ND	0.0050	10/28/16 16:42	
Dichlorodifluoromethane	mg/kg	ND	0.0050	10/28/16 16:42	
Ethyl methacrylate	mg/kg	ND	0.10	10/28/16 16:42	
Ethylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	10/28/16 16:42	
Iodomethane	mg/kg	ND	0.10	10/28/16 16:42	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	10/28/16 16:42	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	10/28/16 16:42	
Methylene Chloride	mg/kg	ND	0.020	10/28/16 16:42	
n-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
n-Hexane	mg/kg	ND	0.0050	10/28/16 16:42	
n-Propylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Naphthalene	mg/kg	ND	0.0050	10/28/16 16:42	
p-Isopropyltoluene	mg/kg	ND	0.0050	10/28/16 16:42	
sec-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Styrene	mg/kg	ND	0.0050	10/28/16 16:42	
tert-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:42	
Tetrachloroethene	mg/kg	ND	0.0050	10/28/16 16:42	
Toluene	mg/kg	ND	0.0050	10/28/16 16:42	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:42	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:42	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	10/28/16 16:42	
Trichloroethene	mg/kg	ND	0.0050	10/28/16 16:42	
Trichlorofluoromethane	mg/kg	ND	0.0050	10/28/16 16:42	
Vinyl acetate	mg/kg	ND	0.10	10/28/16 16:42	
Vinyl chloride	mg/kg	ND	0.0050	10/28/16 16:42	
Xylene (Total)	mg/kg	ND	0.010	10/28/16 16:42	
4-Bromofluorobenzene (S)	%.	104	65-127	10/28/16 16:42	
Dibromofluoromethane (S)	%.	98	70-128	10/28/16 16:42	
Toluene-d8 (S)	%.	102	72-139	10/28/16 16:42	

LABORATORY CONTROL SAMPLE: 1658565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.042	84	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.043	86	67-129	
1,1-Dichloroethene	mg/kg	.05	0.044	88	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.039	78	66-118	
1,2-Dichloropropane	mg/kg	.05	0.045	90	74-119	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.05	0.042	85	72-120	
Chlorobenzene	mg/kg	.05	0.040	80	72-115	
Chloroform	mg/kg	.05	0.041	82	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.042	84	74-115	
Ethylbenzene	mg/kg	.05	0.041	83	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.040	81	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.044	89	68-123	
Naphthalene	mg/kg	.05	0.037	75	63-125	
Tetrachloroethene	mg/kg	.05	0.041	82	66-118	
Toluene	mg/kg	.05	0.041	82	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.045	90	71-120	
Trichloroethene	mg/kg	.05	0.040	81	73-120	
Vinyl chloride	mg/kg	.05	0.062	125	54-155	
Xylene (Total)	mg/kg	.15	0.12	79	69-122	
4-Bromofluorobenzene (S)	%.			99	65-127	
Dibromofluoromethane (S)	%.			97	70-128	
Toluene-d8 (S)	%.			98	72-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658566 1658567

Parameter	Units	50157392014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	ND	.044	.046	0.041	0.042	93	92	37-144	4	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.044	.046	0.019	0.033	43	72	12-174	55	20	R1
1,1-Dichloroethene	mg/kg	ND	.044	.046	0.047	0.046	108	101	36-162	2	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.044	.046	0.052	0.048	118	104	10-157	7	20	
1,2-Dichloropropane	mg/kg	ND	.044	.046	0.041	0.041	95	89	43-138	1	20	
Benzene	mg/kg	ND	.044	.046	0.042	0.042	96	91	36-144	1	20	
Chlorobenzene	mg/kg	ND	.044	.046	0.037	0.037	85	80	16-140	1	20	
Chloroform	mg/kg	ND	.044	.046	0.042	0.041	95	89	39-136	2	20	
cis-1,2-Dichloroethene	mg/kg	ND	.044	.046	0.042	0.042	97	90	34-143	2	20	
Ethylbenzene	mg/kg	ND	.044	.046	0.042	0.042	95	91	15-147	0	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.044	.046	0.040	0.040	91	88	10-163	1	20	
Methyl-tert-butyl ether	mg/kg	ND	.044	.046	0.044	0.046	101	100	48-145	4	20	
Naphthalene	mg/kg	ND	.044	.046	0.025	0.024	57	52	10-132	4	20	
Tetrachloroethene	mg/kg	0.28	.044	.046	0.44	0.46	363	398	14-156	5	20	M0
Toluene	mg/kg	ND	.044	.046	0.044	0.046	99	98	24-151	4	20	
trans-1,2-Dichloroethene	mg/kg	ND	.044	.046	0.045	0.045	103	98	33-147	0	20	
Trichloroethene	mg/kg	ND	.044	.046	0.061	0.055	133	114	21-164	10	20	
Vinyl chloride	mg/kg	ND	.044	.046	0.063	0.066	144	143	32-177	4	20	
Xylene (Total)	mg/kg	ND	.13	.14	0.12	0.12	88	85	12-148	1	20	
4-Bromofluorobenzene (S)	%.						84	85	65-127			
Dibromofluoromethane (S)	%.						96	97	70-128			
Toluene-d8 (S)	%.						113	115	72-139			

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358799
QC Batch Method: EPA 8260
Associated Lab Samples: 50157392011

Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics

METHOD BLANK: 1658598
Matrix: Solid
Associated Lab Samples: 50157392011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,1-Dichloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,1-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:23	
1,1-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:23	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	10/28/16 16:23	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.010	10/28/16 16:23	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	10/28/16 16:23	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,2-Dichloroethane	mg/kg	ND	0.0050	10/28/16 16:23	
1,2-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:23	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1,3-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:23	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
1-Methylnaphthalene	mg/kg	ND	0.010	10/28/16 16:23	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	10/28/16 16:23	
2-Butanone (MEK)	mg/kg	ND	0.025	10/28/16 16:23	
2-Chlorotoluene	mg/kg	ND	0.0050	10/28/16 16:23	
2-Hexanone	mg/kg	ND	0.10	10/28/16 16:23	
2-Methylnaphthalene	mg/kg	ND	0.010	10/28/16 16:23	
4-Chlorotoluene	mg/kg	ND	0.0050	10/28/16 16:23	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	10/28/16 16:23	
Acetone	mg/kg	ND	0.10	10/28/16 16:23	
Acrolein	mg/kg	ND	0.10	10/28/16 16:23	
Acrylonitrile	mg/kg	ND	0.10	10/28/16 16:23	
Benzene	mg/kg	ND	0.0050	10/28/16 16:23	
Bromobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Bromochloromethane	mg/kg	ND	0.0050	10/28/16 16:23	
Bromodichloromethane	mg/kg	ND	0.0050	10/28/16 16:23	
Bromoform	mg/kg	ND	0.0050	10/28/16 16:23	
Bromomethane	mg/kg	ND	0.0050	10/28/16 16:23	
Carbon disulfide	mg/kg	ND	0.010	10/28/16 16:23	
Carbon tetrachloride	mg/kg	ND	0.0050	10/28/16 16:23	
Chlorobenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Chloroethane	mg/kg	ND	0.0050	10/28/16 16:23	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

METHOD BLANK: 1658598 Matrix: Solid
Associated Lab Samples: 50157392011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	mg/kg	ND	0.0050	10/28/16 16:23	
Chloromethane	mg/kg	ND	0.0050	10/28/16 16:23	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:23	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:23	
Dibromochloromethane	mg/kg	ND	0.0050	10/28/16 16:23	
Dibromomethane	mg/kg	ND	0.0050	10/28/16 16:23	
Dichlorodifluoromethane	mg/kg	ND	0.0050	10/28/16 16:23	
Ethyl methacrylate	mg/kg	ND	0.10	10/28/16 16:23	
Ethylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	10/28/16 16:23	
Iodomethane	mg/kg	ND	0.10	10/28/16 16:23	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	10/28/16 16:23	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	10/28/16 16:23	
Methylene Chloride	mg/kg	ND	0.020	10/28/16 16:23	
n-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
n-Hexane	mg/kg	ND	0.0050	10/28/16 16:23	
n-Propylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Naphthalene	mg/kg	ND	0.0050	10/28/16 16:23	
p-Isopropyltoluene	mg/kg	ND	0.0050	10/28/16 16:23	
sec-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Styrene	mg/kg	ND	0.0050	10/28/16 16:23	
tert-Butylbenzene	mg/kg	ND	0.0050	10/28/16 16:23	
Tetrachloroethene	mg/kg	ND	0.0050	10/28/16 16:23	
Toluene	mg/kg	ND	0.0050	10/28/16 16:23	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	10/28/16 16:23	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	10/28/16 16:23	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	10/28/16 16:23	
Trichloroethene	mg/kg	ND	0.0050	10/28/16 16:23	
Trichlorofluoromethane	mg/kg	ND	0.0050	10/28/16 16:23	
Vinyl acetate	mg/kg	ND	0.10	10/28/16 16:23	
Vinyl chloride	mg/kg	ND	0.0050	10/28/16 16:23	
Xylene (Total)	mg/kg	ND	0.010	10/28/16 16:23	
4-Bromofluorobenzene (S)	%.	100	65-127	10/28/16 16:23	
Dibromofluoromethane (S)	%.	108	70-128	10/28/16 16:23	
Toluene-d8 (S)	%.	98	72-139	10/28/16 16:23	

LABORATORY CONTROL SAMPLE: 1658599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.043	86	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.047	93	67-129	
1,1-Dichloroethene	mg/kg	.05	0.047	94	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	86	66-118	
1,2-Dichloropropane	mg/kg	.05	0.045	91	74-119	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.05	0.044	88	72-120	
Chlorobenzene	mg/kg	.05	0.044	87	72-115	
Chloroform	mg/kg	.05	0.042	85	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.044	88	74-115	
Ethylbenzene	mg/kg	.05	0.044	88	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.043	86	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.045	91	68-123	
Naphthalene	mg/kg	.05	0.040	79	63-125	
Tetrachloroethene	mg/kg	.05	0.044	89	66-118	
Toluene	mg/kg	.05	0.043	87	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.046	92	71-120	
Trichloroethene	mg/kg	.05	0.041	82	73-120	
Vinyl chloride	mg/kg	.05	0.058	117	54-155	
Xylene (Total)	mg/kg	.15	0.13	88	69-122	
4-Bromofluorobenzene (S)	%.			100	65-127	
Dibromofluoromethane (S)	%.			93	70-128	
Toluene-d8 (S)	%.			105	72-139	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358803
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 50157392012

METHOD BLANK: 1658630
Matrix: Solid
Associated Lab Samples: 50157392012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,1,1-Trichloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,1,2-Trichloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,1-Dichloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,1-Dichloroethene	mg/kg	ND	0.0050	10/29/16 04:38	
1,1-Dichloropropene	mg/kg	ND	0.0050	10/29/16 04:38	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,2,3-Trichloropropane	mg/kg	ND	0.0050	10/29/16 04:38	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.010	10/29/16 04:38	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0050	10/29/16 04:38	
1,2-Dichlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,2-Dichloroethane	mg/kg	ND	0.0050	10/29/16 04:38	
1,2-Dichloropropane	mg/kg	ND	0.0050	10/29/16 04:38	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,3-Dichlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1,3-Dichloropropane	mg/kg	ND	0.0050	10/29/16 04:38	
1,4-Dichlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
1-Methylnaphthalene	mg/kg	ND	0.010	10/29/16 04:38	N2
2,2-Dichloropropane	mg/kg	ND	0.0050	10/29/16 04:38	
2-Butanone (MEK)	mg/kg	ND	0.025	10/29/16 04:38	
2-Chlorotoluene	mg/kg	ND	0.0050	10/29/16 04:38	
2-Hexanone	mg/kg	ND	0.10	10/29/16 04:38	
2-Methylnaphthalene	mg/kg	ND	0.010	10/29/16 04:38	
4-Chlorotoluene	mg/kg	ND	0.0050	10/29/16 04:38	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.025	10/29/16 04:38	
Acetone	mg/kg	ND	0.10	10/29/16 04:38	
Acrolein	mg/kg	ND	0.10	10/29/16 04:38	
Acrylonitrile	mg/kg	ND	0.10	10/29/16 04:38	
Benzene	mg/kg	ND	0.0050	10/29/16 04:38	
Bromobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Bromochloromethane	mg/kg	ND	0.0050	10/29/16 04:38	
Bromodichloromethane	mg/kg	ND	0.0050	10/29/16 04:38	
Bromoform	mg/kg	ND	0.0050	10/29/16 04:38	
Bromomethane	mg/kg	ND	0.0050	10/29/16 04:38	
Carbon disulfide	mg/kg	ND	0.010	10/29/16 04:38	
Carbon tetrachloride	mg/kg	ND	0.0050	10/29/16 04:38	
Chlorobenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Chloroethane	mg/kg	ND	0.0050	10/29/16 04:38	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

METHOD BLANK: 1658630 Matrix: Solid
Associated Lab Samples: 50157392012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	mg/kg	ND	0.0050	10/29/16 04:38	
Chloromethane	mg/kg	ND	0.0050	10/29/16 04:38	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	10/29/16 04:38	
cis-1,3-Dichloropropene	mg/kg	ND	0.0050	10/29/16 04:38	
Dibromochloromethane	mg/kg	ND	0.0050	10/29/16 04:38	
Dibromomethane	mg/kg	ND	0.0050	10/29/16 04:38	
Dichlorodifluoromethane	mg/kg	ND	0.0050	10/29/16 04:38	
Ethyl methacrylate	mg/kg	ND	0.10	10/29/16 04:38	
Ethylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0050	10/29/16 04:38	
Iodomethane	mg/kg	ND	0.10	10/29/16 04:38	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	10/29/16 04:38	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	10/29/16 04:38	
Methylene Chloride	mg/kg	ND	0.020	10/29/16 04:38	
n-Butylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
n-Hexane	mg/kg	ND	0.0050	10/29/16 04:38	
n-Propylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Naphthalene	mg/kg	ND	0.0050	10/29/16 04:38	
p-Isopropyltoluene	mg/kg	ND	0.0050	10/29/16 04:38	
sec-Butylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Styrene	mg/kg	ND	0.0050	10/29/16 04:38	
tert-Butylbenzene	mg/kg	ND	0.0050	10/29/16 04:38	
Tetrachloroethene	mg/kg	ND	0.0050	10/29/16 04:38	
Toluene	mg/kg	ND	0.0050	10/29/16 04:38	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	10/29/16 04:38	
trans-1,3-Dichloropropene	mg/kg	ND	0.0050	10/29/16 04:38	
trans-1,4-Dichloro-2-butene	mg/kg	ND	0.10	10/29/16 04:38	
Trichloroethene	mg/kg	ND	0.0050	10/29/16 04:38	
Trichlorofluoromethane	mg/kg	ND	0.0050	10/29/16 04:38	
Vinyl acetate	mg/kg	ND	0.10	10/29/16 04:38	
Vinyl chloride	mg/kg	ND	0.0050	10/29/16 04:38	
Xylene (Total)	mg/kg	ND	0.010	10/29/16 04:38	
4-Bromofluorobenzene (S)	%.	104	65-127	10/29/16 04:38	
Dibromofluoromethane (S)	%.	103	70-128	10/29/16 04:38	
Toluene-d8 (S)	%.	101	72-139	10/29/16 04:38	

LABORATORY CONTROL SAMPLE: 1658631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	.05	0.045	90	67-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.049	97	67-129	
1,1-Dichloroethene	mg/kg	.05	0.050	99	64-133	
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	86	66-118	
1,2-Dichloropropane	mg/kg	.05	0.049	97	74-119	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

LABORATORY CONTROL SAMPLE: 1658631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.05	0.047	93	72-120	
Chlorobenzene	mg/kg	.05	0.044	89	72-115	
Chloroform	mg/kg	.05	0.045	89	66-116	
cis-1,2-Dichloroethene	mg/kg	.05	0.047	94	74-115	
Ethylbenzene	mg/kg	.05	0.047	94	70-121	
Isopropylbenzene (Cumene)	mg/kg	.05	0.045	91	78-130	
Methyl-tert-butyl ether	mg/kg	.05	0.047	95	68-123	
Naphthalene	mg/kg	.05	0.040	80	63-125	
Tetrachloroethene	mg/kg	.05	0.046	92	66-118	
Toluene	mg/kg	.05	0.046	93	68-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.048	96	71-120	
Trichloroethene	mg/kg	.05	0.047	94	73-120	
Vinyl chloride	mg/kg	.05	0.071	141	54-155	
Xylene (Total)	mg/kg	.15	0.13	88	69-122	
4-Bromofluorobenzene (S)	%.			98	65-127	
Dibromofluoromethane (S)	%.			94	70-128	
Toluene-d8 (S)	%.			105	72-139	

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QUALITY CONTROL DATA

Project: Norge Laundry / 16948
Pace Project No.: 50157392

QC Batch: 358472 | Analysis Method: SM 2540G
QC Batch Method: SM 2540G | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 50157392008, 50157392009, 50157392010, 50157392011, 50157392012, 50157392013, 50157392014, 50157392015

SAMPLE DUPLICATE: 1657060

Parameter	Units	50157392014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.8	6.1	10	5	R1

SAMPLE DUPLICATE: 1657061

Parameter	Units	50157392015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.1	5.6	10	5	R1

SAMPLE DUPLICATE: 1657062

Parameter	Units	50157455008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.7	9.5	36	5	R1

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QUALIFIERS

Project: Norge Laundry / 16948
Pace Project No.: 50157392

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 0.034 mg/kg, based on the MDL. TMW 10-31-16
D4	Sample was diluted due to the presence of high levels of target analytes.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Norge Laundry / 16948
Pace Project No.: 50157392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50157392001	**TB**	EPA 8260	358751		
50157392002	**KB-1W**	EPA 8260	358751		
50157392003	**KB-1W DUP**	EPA 8260	358753		
50157392004	**KB-2W**	EPA 8260	358751		
50157392005	**KB-3W**	EPA 8260	358753		
50157392006	**KB-4W**	EPA 8260	358753		
50157392007	**TB**	EPA 8260	358785		
50157392008	**KB-1(0-1')**	EPA 8260	358785		
50157392009	**KB-2(0-1')**	EPA 8260	358785		
50157392010	**KB-3(12-14')**	EPA 8260	358785		
50157392011	**KB-4(1-2')**	EPA 8260	358799		
50157392012	**KB-4(1-2')DUP**	EPA 8260	358803		
50157392013	**HA-1(0-1')**	EPA 8260	358785		
50157392014	**HA-2(0-1')**	EPA 8260	358785		
50157392015	**HA-3(0-1')**	EPA 8260	358785		
50157392008	**KB-1(0-1')**	SM 2540G	358472		
50157392009	**KB-2(0-1')**	SM 2540G	358472		
50157392010	**KB-3(12-14')**	SM 2540G	358472		
50157392011	**KB-4(1-2')**	SM 2540G	358472		
50157392012	**KB-4(1-2')DUP**	SM 2540G	358472		
50157392013	**HA-1(0-1')**	SM 2540G	358472		
50157392014	**HA-2(0-1')**	SM 2540G	358472		
50157392015	**HA-3(0-1')**	SM 2540G	358472		

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KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

Project No.: 16948
Project Name: Norge Laundry
Report to: Mike Devir mdevir@keramida.com
Sampled by: KERAMIDA Inc. (Samplers Print & Sign)
QA/QC Level *(List Levels with Analyses): IF
Detection Level: RCG Res
Project State: IN
Time Zone: EST

Analyses & QA/QC Level(s)*: IF

and Type of Containers

	Sample ID/Description	Date	Time	Comp	Grab	HCl	HNO_3	H_2SO_4	5035 Kit	Unpreserved	Other	VOC	MATRIX	Comments
														50157392
1	TB	10/24/16	800			3						X	GW	-001
2	TB	↓	800		Grab				1			X	Soil	-007
3	KB-1 (0-1')		1210		X				1			X	↓	-008
4	KB-2 (0-1')		1410		↓				1			X		-009
5	KB-3 (12-14')		1040						1			X		-010
6	KB-4 (1-2')		1145						1			X		-011
7	KB-4 (1-2') Dup	↓	1145		↓				1			X	↓	-012
8	KB-1W		1351		X	3						X	GW	-002
9	KB-1W Dup	↓	1351		X	3						X	↓	-003
10	KB-2W ms/msD	↓	1510		X	9						X		-004 ms/msD
11	KB-3W	↓	1530		X					3		X		-005
12	KB-4W	↓	1520		X					3		X	↓	-006

Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time
10/25/16 1215	10/25/16 1215	10/25/16 1305	10/25/16 1305
Relinquished by: Sign/Date/Time	Received by: Sign/Date/Time	Relinquished by: Sign/Date/Time	Received for Lab: Sign/Date/Time

Lab Name: Pace
Due Date: Standard TAT
Requested analysis filter type:
Field/Lab (circle one)

1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Other Remarks:

Sample Condition: Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 5.5°C
Samples on ice? Yes/No

Revised: 1/8/2016

KERAMIDA
401 North College Avenue
Indianapolis, IN 46202
(317) 685-6600 - FAX (317) 685-6610

CHAIN OF CUSTODY RECORD

Project No.: 16948
Project Name: Norge Laundry
Report to: mdeur@Keramida.com
Sampled by: KERAMIDA Inc. (Samplers Print & Sign): [signature]
QA/QC Level *(List Levels with Analyses):
Detection Level: RLG Res
Project State: IN
Time Zone: EST

50757892

Sample ID/Description	Date	Time	Comp	Grab	HCl	HNO_3	H_2SO_4	5035 Kit	Unpreserved	Other	VOC	Matrix	Comments
HA-1 (0-1)	10/25/16	932		X				1			X	Soil	-013
HA-2 (0-1) ms/msd	↓	1000		X				3			X	↓	ms/msD -014
HA-3 (0-1)	↓	1015		X				1			X	↓	-015

Relinquished by: Sign/Date/Time: [signature] 10/25/16 1215
Received by: Sign/Date/Time: Nathaniel Cullen 10/25/16 1215
Relinquished by: Sign/Date/Time: Nathaniel Cullen 10/25/16 1305
Received for Lab: Sign/Date/Time: [signature] 10/25/16 1305

Relinquished by: Sign/Date/Time
Received by: Sign/Date/Time
Relinquished by: Sign/Date/Time
Received for Lab: Sign/Date/Time

Lab Name: Pace
Due Date: Standard TAT
Requested analysis filter type: Field/Lab (circle one)

1) No method substitution will be performed by the laboratory without KERAMIDA's authorization
2) Please notify KERAMIDA immediately upon receipt, if sample integrity is in question
3) If analysis cannot be conducted within required holding times, please notify KERAMIDA immediately
4) If requested detection limits cannot be achieved, please contact KERAMIDA immediately

Other Remarks:

Sample Condition: Bottle Intact? Yes/No
Field Filtered? Yes/No
COC Seals Present & Intact? Yes/No
VOC Free of Headspace? Yes/No
VOC Preserved? Yes/No
Temperature upon Receipt: 5.5°C
Samples on ice? Yes/No

Revised: 1/8/2016

Sample Condition Upon Receipt

Pace Analytical

Client Name: KERAMIDA Project # 50157392

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer 1 2 3 4 (5) 6 A B C D E F **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 5.5° / 5.5° **Ice Visible in Sample Containers:** ☐ yes ☐ no

Temp should be above freezing to 6°C

Date/Time 5035A kits placed in freezer 10-25-16 8:58 am

Date and Initials of person examining contents: ML 10-25-16

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? **exceptions: VOA, coliform, TOC, O&G** All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 10/25/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: KERAMIDA

COC PAGE 1 of 2

COC ID# _____

Project # 5057392

Sample Line Item	DG9H	VG9H	AG1U	WGFU	AG0U	R (Bulk Kit)	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Sl/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3																									
2						4																				
3						4																				
4						4																				
5						4																				
6						4																				
7						4																				
8	3																									
9	3																									
10	9																									
11	3																									
12	3																									

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: KERAMIDA

COC PAGE 2 of 2

COC ID#

Project # 50157392

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R Bulk Kit	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Sl/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1						4																			
2					ML	~~8~~ 12																			
3						4																			
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag