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ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

SUPPLEMENTAL SITE INVESTIGATION REPORT ADDENDUM

January 23, 2018

Mr. Chue Yee Yang
Wisconsin Department of Natural Resources
2300 North Martin Luther King, Jr. Drive
Milwaukee, WI 53212



Re: Former Bayside Natural Cleaners
8828 North Port Washington Road, Bayside, WI
FID# 341140250, BRRTS# 02-41-548572

KPRG Project No. 18806.3

Dear Mr. Yang:

The following is a review of the recent correspondence between KPRG and the WDNR:

- October 6, 2014 - KPRG Supplemental SI Report
- February 20, 2015 - WDNR SI Denial Comment Letter
- March 16, 2015 - KPRG and WDNR Meeting
- June 26, 2015 - KPRG Comment Response Letter with Work Plan
- June 30, 2015 - WDNR Approval Letter
- November 10, 2015 - KPRG Supplemental SI Report
- April 20, 2016 - WDNR SI Denial Response
- May 31, 2016 - KPRG Comment Response with Work Plan and IRA
- November 2, 2016 - WDNR Work Plan Denial Response
- November 22, 2016 - KPRG Revised Work Plan
- December 22, 2016 - WDNR Work Plan Approval

This report addendum documents the additional work completed outlined in the November 22, 2016 work plan and approved by the WDNR December 22, 2016.

Sub-Slab Vapor Probe Installations/Sampling

On March 31, 2017, KPRG installed four additional sub-slab vapor probes SV-1, SV-2, SV-3, and SV-4 at locations shown on Figure 1. Cox-Colvin vapor pins were installed through the concrete floor per manufacturer directions and were tested for tightness using a helium gas shroud method. During testing at vapor probe SV-4, water was drawn up while the probe was under vacuum. As a result, SV-4 was not able to be sampled. There were no water issues at the remaining probes. As requested by the WDNR, the Sub-Slab Depressurization System (SSDS)

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was shut down prior to sample collection. Once SV-1, SV-2 and SV-3 were determined to be air tight, sub-slab vapor samples were collected at each vapor point using a six-liter, Summa Canister with 1-hour flow controller. Samples were sent under completed chain-of-custody to a Pace Analytical laboratory for analysis of chlorinated volatile organic compounds (CVOCs) using Method TO15.

Check Working Condition of Existing SSDS

In 2012, KPRG installed a SSDS in the vicinity of the defined PCE impacts and conducted a field extension test verifying that the system had influence over the area of concern. As requested by the WDNR, an additional round of testing was completed on September 20, 2017. As shown on Figure 2, the field testing confirmed the previous conclusion that the system depressurization covers the area of concern. In addition and as requested by the WDNR, KPRG measured the exhaust vapors of the system with a photo-ionization detector (PID). There were no PID readings above 0.0 ppm observed that day.

Additional Soil Borings

KPRG advanced soil borings, GP-20 through GP-24, MW-3D and MW-5 at locations shown on Figure 1. Soil borings GP-20 through GP-24 were advanced with a Geoprobe and extended to 12 feet below ground surface (bgs). Borings MW-3D and MW-5 were also advanced with a Geoprobe and then followed by hollow-stem augers and extended to 50 and 25 feet bgs, respectively. Continuous soil core samples were collected from all borings. Soils were field screened with a PID for total organic vapors and logged using the Unified Soil Classification System (USCS). Borings MW-3D and MW-5 were converted into NR141 compliant monitoring wells and the remainder of the borings were abandoned with granular bentonite to the surface and hydrated. Copies of the boring logs, abandonment forms are included in Attachment 1.

In accordance with the approved work plan and based on the results of the field screening, two soil samples were collected from each boring except for MW-3D which was located adjacent to MW-3. The soil samples were analyzed for chlorinated volatile organic compounds (CVOCs). Appropriate sample aliquots were placed into laboratory prepared containers and placed on ice. All samples were transported under a completed chain-of-custody and were transported to Pace Analytical Services, Inc. for analysis of CVOCs using Method 8260B.

Additional Well Installations and Groundwater Sampling

As noted above, and in accordance with the approved work plan, two additional wells were installed using hollow stem auger drilling. The well locations are shown on Figure 1. Well MW-5 was constructed as a water table monitoring well with a depth of 25 feet with 10 feet of screen. Well MW-3D was constructed as a piezometer with a depth of 48 feet bgs with 5 feet of screen. Each well was constructed with 2-inch PVC and 0.010' slot screen. The wells were completed by placing a silica sand filter pack to approximately two feet above the top of the screen followed by a 2-foot bentonite seal that was placed and hydrated atop the filter sand. The remainder of the annulus was filled with granular bentonite and hydrated. Surface completions were flush mount well vaults anchored within concrete. All drill cuttings were containerized in

labeled 55-gallon drums and temporarily staged on the east side of the property for subsequent proper disposal.

The wells were developed using the pump and surge method. Purging continued until the well was dry or until field parameters of pH, specific conductance and temperature showed stable conditions. Purge water was also containerized in labeled 55-gallon drums for subsequent proper disposal. Monitoring well construction and development forms are included in Attachment 1.

Upon completion, the well locations and top of casing elevations were surveyed by a Wisconsin licensed surveyor.

Groundwater samples were collected per the approved work plan. One round of groundwater samples were collected from all monitoring wells associated with the site followed by a confirmation round of the two new wells MW-3D and MW-5. The samples were collected for analysis with dedicated bottom filling bailers and transferred directly into laboratory prepared containers, preserved as necessary, and placed on ice. Samples were shipped to Pace Analytical laboratory under completed chain-of-custody procedure for analysis of chlorinated volatile organic compounds.

Analytical Results

As noted above, three sub-slab vapor samples were collected at locations shown on Figure 1. All vapor samples were collected via Summa canisters and analyzed for CVOCs. The analytical data is presented in Table 1 and the laboratory packages are provided in Attachment 2. Table 1 includes WDNR Vapor Risk Screening Levels (VRSLs) for small commercial properties and also the sub-slab levels. A review of the data indicates that there are no non-residential exceedances in any of the samples collected. The only detection in any of the samples was for trichloroethene (TCE) and was present in all three samples.

As part of this site investigation, a total of 12 additional soil samples were collected from 6 soil boring locations (GP-20 through GP-24 and MW-5) as shown on Figure 1. Soil sampling intervals were determined in the field based on PID field screening data to assist in defining the horizontal and vertical extent of impacts. As noted above all soil samples were analyzed for CVOCs. The soil data is summarized on Table 2 and shown on Figure 3. Analytical data packages are provided in Attachment 2. There were detections of selected CVOCs in all soil samples collected as part of this additional investigation. GP-21 was the only boring which contained soils exceeding any RCL. There were exceedances of the soil-to-groundwater standard in the remaining samples.

Table 3 includes the historical groundwater data along with the WDNR NR140 preventative action limits (PALs) and enforcement standards (ESs). A groundwater impact map is provided on Figure 4. As noted above, one complete round of groundwater samples were collected followed by a confirmation round of the two new wells, MW-3D and MW-5. During the first round, GP-10 was not located, presumed buried, and therefore was not sampled. A review of the recent data for the first round indicates that the concentrations in the wells were consistent with previous levels. There were no detections of any CVOC in either of the two new wells MW-3D

or MW-5. The second round results showed detections above the PAL at new well MW-5 for PCE and TCE.

Depth to groundwater water has been measured for the wells on the site for about ten years. The direction of flow has been consistently to the south east. The most recent round of water levels do not allow for a flow direction to be determined, potentially as a result of the time since the last round, or as a result of the recent change of potable water for the Bayside area from groundwater to water obtained from Lake Michigan.

Conclusions

Based on the above data summary discussions, the following conclusions are made:

- The installation and sampling of three additional sub-slab vapor probes revealed that there are no results above any standard with the SSDS temporarily turned off.
- The SSDS field extension was retested resulting in a similar sufficient radius of influence as initially reported.
- The additional soil samples collected confirmed that the source of impacts appears focused around MW-2. Additional areas of impacts above the soil-to-groundwater standard have been documented surrounding the source area.
- The installation of two additional groundwater monitoring wells confirm that the impacts are focused around the source in the area of MW-2. Results from MW-3D show that the deeper impacts also appear to be focused around the source area. Results from the monitoring MW-5 to the north were inconclusive.

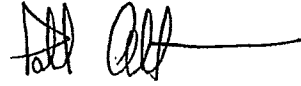
KPRG and Associates, Inc. believes that the site investigation is now complete and that the site can proceed with obtaining remediation bids.

KPRG and Natural Cleaners appreciate the continued cooperation with WDNR in addressing these issues. If there are any questions, please contact us at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

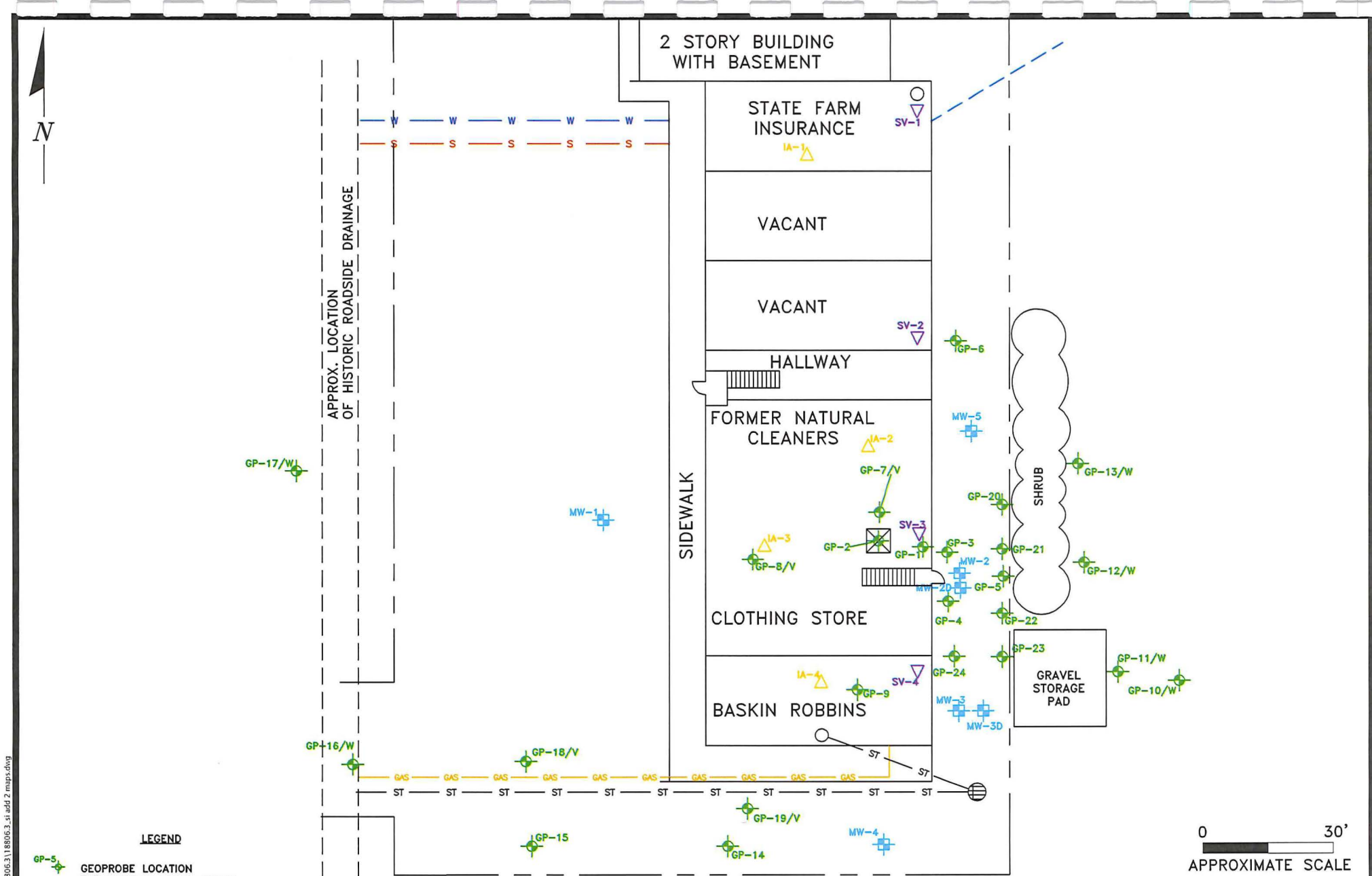


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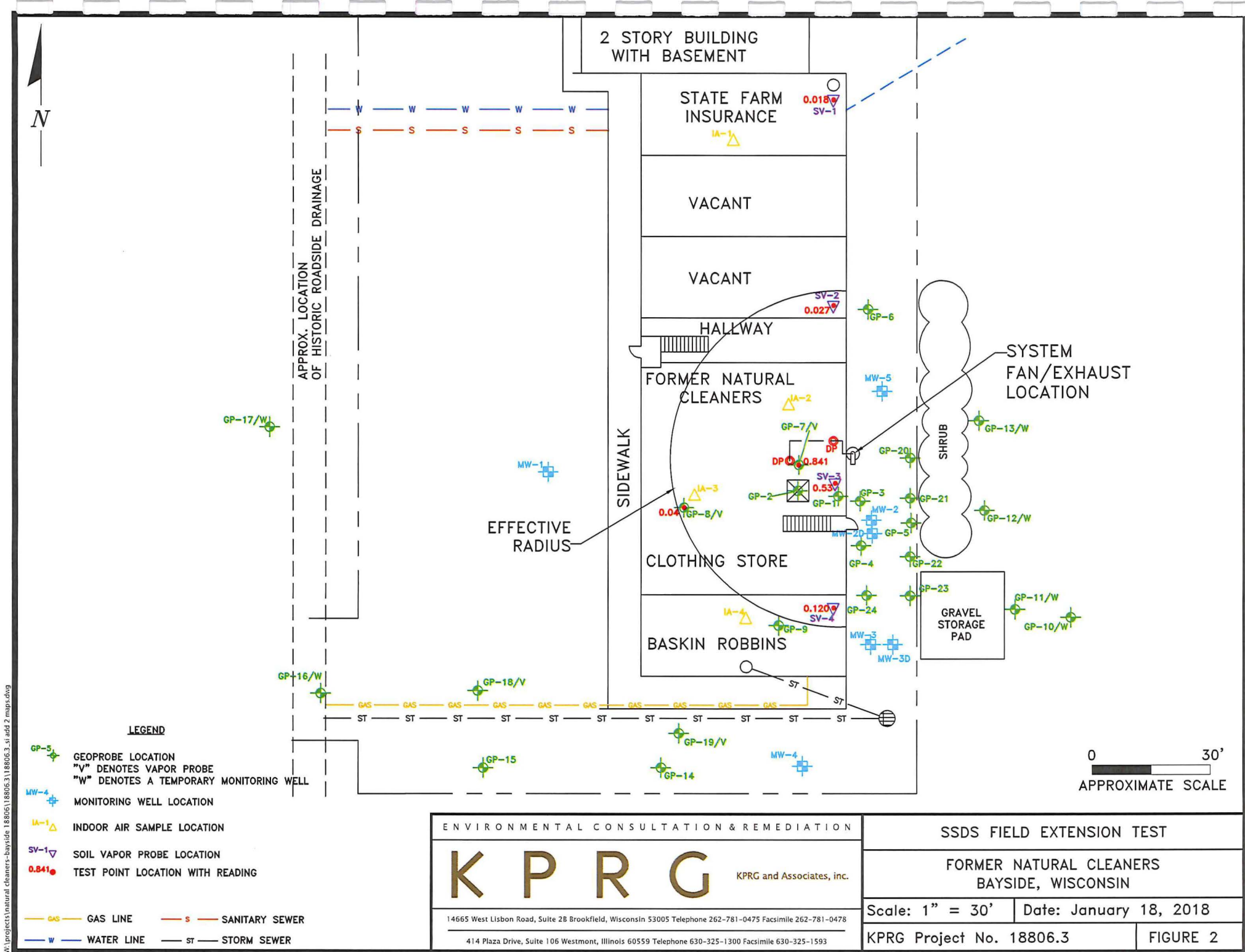
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SAMPLE LOCATION MAP

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30'	Date: January 18, 2018
KPRG Project No. 18806.3	FIGURE 1

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LEGEND

- GP-5 GEOPROBE LOCATION
"V" DENOTES VAPOR PROBE
"W" DENOTES A TEMPORARY MONITORING WELL
- MW-4 MONITORING WELL LOCATION
- IA-1 INDOOR AIR SAMPLE LOCATION
- SV-1 SOIL VAPOR PROBE LOCATION
- 0.841 TEST POINT LOCATION WITH READING
- GAS GAS LINE S SANITARY SEWER
- W WATER LINE ST STORM SEWER

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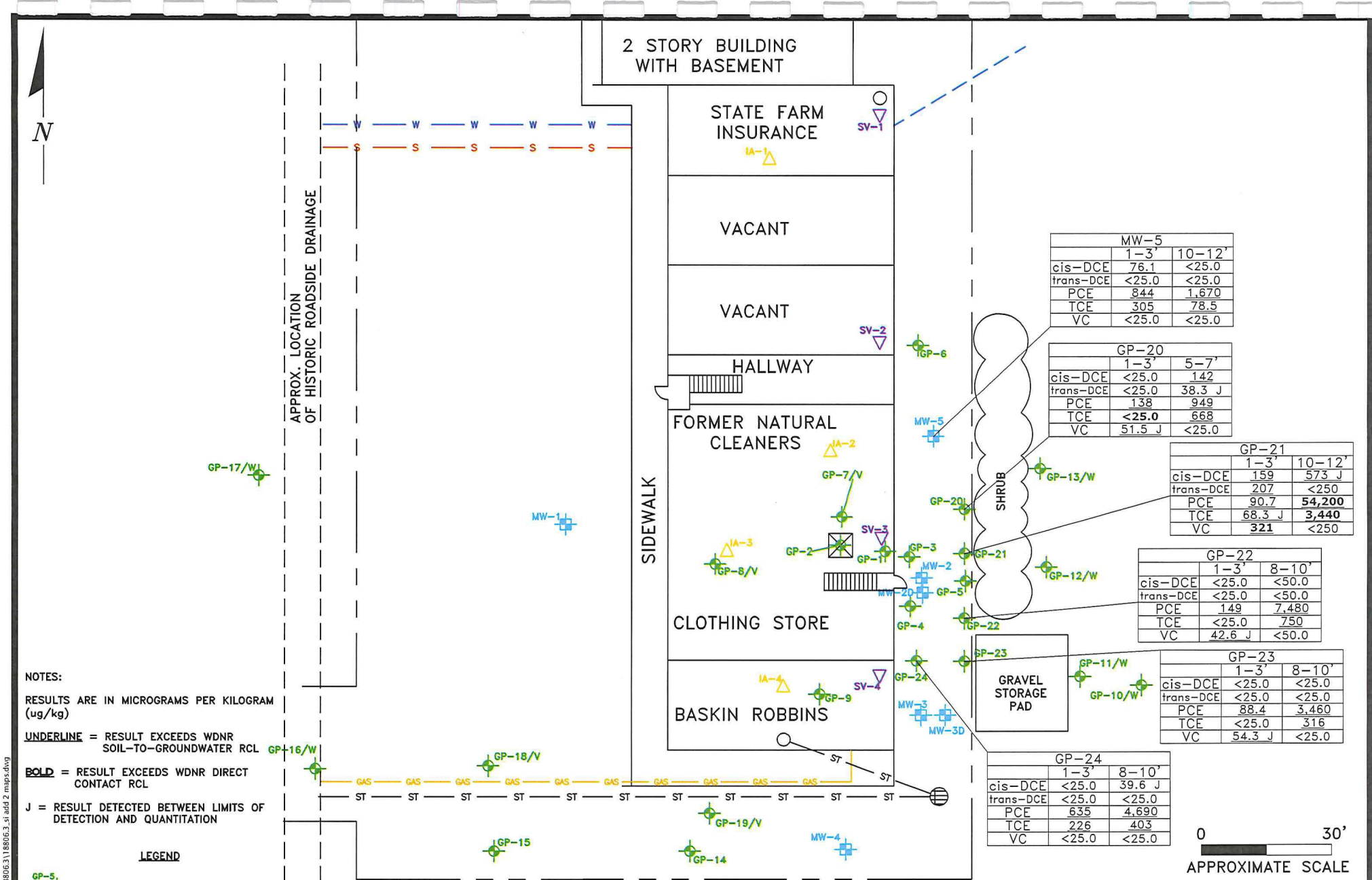
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SSDS FIELD EXTENSION TEST

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30'	Date: January 18, 2018
KPRG Project No. 18806.3	FIGURE 2

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NOTES:

RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

UNDERLINE = RESULT EXCEEDS WDNR SOIL-TO-GROUNDWATER RCL

BOLD = RESULT EXCEEDS WDNR DIRECT CONTACT RCL

J = RESULT DETECTED BETWEEN LIMITS OF DETECTION AND QUANTIFICATION

- LEGEND**
- GP-5 GEOPROBE LOCATION
 - "V" DENOTES VAPOR PROBE
 - "W" DENOTES A TEMPORARY MONITORING WELL
 - MW-4 MONITORING WELL LOCATION
 - IA-1 INDOOR AIR SAMPLE LOCATION
 - SV-1 SOIL VAPOR PROBE LOCATION
 - GAS GAS LINE
 - S SANITARY SEWER
 - W WATER LINE
 - ST STORM SEWER

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EXTENT OF SOIL IMPACTS

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

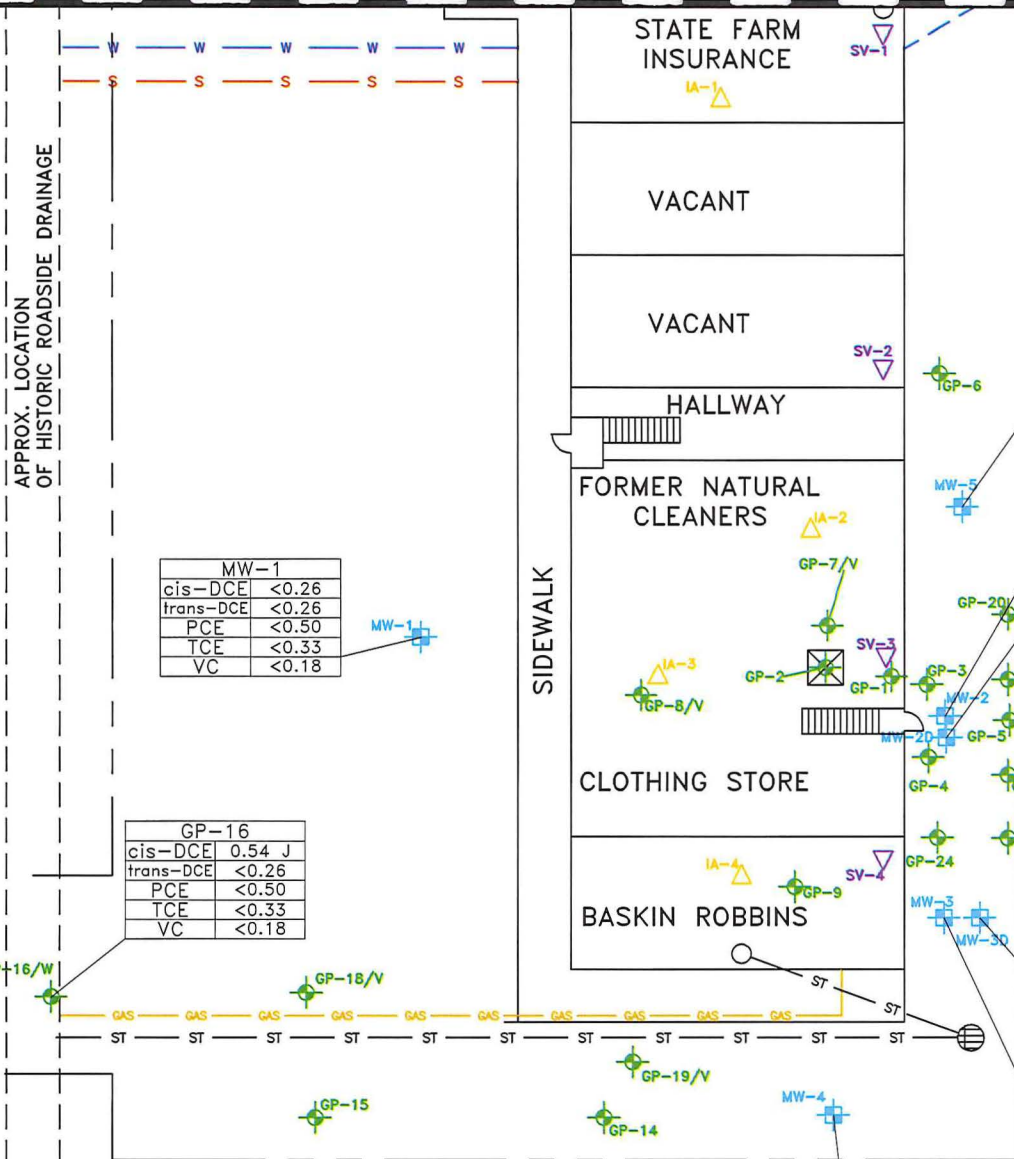
Scale: 1" = 30' Date: January 18, 2018

KPRG Project No. 18806.3 **FIGURE 3**

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APPROX. LOCATION OF HISTORIC ROADSIDE DRAINAGE



GP-17	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-1	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

GP-16	
cis-DCE	0.54 J
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-5	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-2	
cis-DCE	311
trans-DCE	80.3
PCE	1,080
TCE	179
VC	13.4

MW-2D	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	0.61 J
TCE	<0.33
VC	<0.18

GP-13	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

GP-12	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

GP-11	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-3D	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-3	
cis-DCE	2.0
trans-DCE	0.42 J
PCE	<0.50
TCE	<0.33
VC	<0.18

MW-4	
cis-DCE	<0.26
trans-DCE	<0.26
PCE	<0.50
TCE	<0.33
VC	<0.18

NOTES:
 RESULTS ARE IN MICROGRAMS PER LITER (ug/L)
BOLD = RESULT EXCEEDS WDNR PAL
BOLD = RESULT EXCEEDS WDNR ES
 J = RESULT DETECTED BETWEEN LIMITS OF DETECTION AND QUANTITATION
 SAMPLES COLLECTED ON 5/17/17 AND 5/18/17

LEGEND

- GEOPROBE LOCATION
- "V" DENOTES VAPOR PROBE
- "W" DENOTES A TEMPORARY MONITORING WELL
- MONITORING WELL LOCATION
- INDOOR AIR SAMPLE LOCATION
- SOIL VAPOR PROBE LOCATION
- GAS LINE
- SANITARY SEWER
- WATER LINE
- STORM SEWER



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EXTENT OF GROUNDWATER IMPACTS

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30' | Date: January 18, 2018

KPRG Project No. 18806.3 | FIGURE 4

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Table 1 - Summary of Sub-Slab Vapor Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Sample Name	WDNR Small Commercial		GP-18	GP-19	SV-1	SV-2	SV-3	
Parameter	Date	Indoor VAL	Sub-Slab VRSL	10/06/15	10/06/15	03/31/17	03/31/17	03/31/17
1,1-Dichloroethane		77	2,600	<0.74	<0.79	<0.23	<0.24	<0.24
1,1-Dichloroethene		4.7	160	<1.1	<1.2	<0.34	<0.37	<0.37
cis-1,2-Dichloroethene		NV	NV	<1.2	<1.2	0.66 J	<0.38	8.7
trans-1,2-Dichloroethene		NV	NV	NA	NA	<0.55	<0.60	7.8
Tetrachloroethene		180	6,000	<1.3	4.9	2.5	0.68 J	175
1,1,1-Trichloroethane		22,000	730,000	<1.2	<1.2	<0.36	<0.38	0.36 J
Trichloroethene		8.8	290	<1.3	1.7 J	0.49 J	<0.43	32
Vinyl Chloride		28	930	<0.92	<0.99	<0.28	<0.30	<0.30

Notes : All values in ug/m³.

SV samples collected while SSDS shut off as directed by the WDNR.

VAL - Vapor Action Level

VRSL - Vapor Risk Screening Level

NA - Not Analyzed

NV - No Value

BOLD - Result exceeds the Sub-Slab VRSL

Table 2. Soil Sampling Analytical Results For Detected CVOC - Former Natural Cleaners, Bayside, WI

Parameter	Boring Depth	WDNR Non-Industrial Standards		GP-20	GP-20	GP-21	GP-21	GP-22	GP-22
		RCL	Soil-GW	1-3	5-7	1-3	10-12	1-3	8-10
cis-1,2-Dichloroethene		156,000	41.2	<25.0	<u>142</u>	<u>159</u>	<u>573 J</u>	<25.0	<50.0
trans-1,2-Dichloroethene		1,560,000	62.6	<25.0	38.3 J	<u>207</u>	<250	<25.0	<50.0
Tetrachloroethene		33,000	4.5	<u>138</u>	<u>949</u>	<u>90.7</u>	54,200	<u>149</u>	<u>7,480</u>
Trichloroethene		1,300	3.6	<25.0	<u>668</u>	<u>68.3 J</u>	3,440	<25.0	<u>750</u>
Vinyl chloride		67	0.1	<u>51.5 J</u>	<25.0	321	<250	<u>42.6 J</u>	<50.0

Parameter	Boring Depth	WDNR Non-Industrial Standards		GP-23	GP-23	GP-24	GP-24	MW-5	MW-5
		RCL	Soil-GW	1-3	8-10	1-3	8-10	1-3	10-12
cis-1,2-Dichloroethene		156,000	41.2	<25.0	<25.0	<25.0	39.6 J	<u>76.1</u>	<25.0
trans-1,2-Dichloroethene		1,560,000	62.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene		33,000	4.5	<u>88.4</u>	<u>3,460</u>	<u>635</u>	<u>4,690</u>	<u>844</u>	<u>1,670</u>
Trichloroethene		1,300	3.6	<25.0	<u>316</u>	<u>226</u>	<u>403</u>	<u>305</u>	<u>78.5</u>
Vinyl chloride		67	0.1	<u>54.3 J</u>	<25.0	<25.0	<25.0	<25.0	<25.0

Notes: All results are in ug/kg.

RCL - Residual Contaminant Level

Soil-GW - Soil to Groundwater RCL

Underline - Value exceeds the WDNR soil-to-gw RCL

Bold - Value exceeds the WDNR non-industrial direct contact RCL

J - Detected between the limits of detection and quantitation

Table 3. Summary of Groundwater Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Parameter Name	WDNR NR 140		MW-1											MW-2										
	PAL	ES	1/24/2008	6/4/2008	8/28/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.75	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.90	0.67 J	1.3	1.1 J	1.4 J	<0.72	<0.72	1.5 J	<2.4	<1.9	1.6 J
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	180	168	187	221	276	247	218	258	366	299	311	
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	23	18.1	22.8	32.3	43.3	40.7	34.3	40.1	74.6	56.9	80.3	
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<1.5	<0.61	<0.61	<1.2	<1.2	<1.2	<1.2	<1.2	NA	NA	NA	
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	320	164	199	412	565	539	450	507	1070	757	1080	
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	5.1 Q	3.1	4.8	7.1	7.4	8.6	7.7	6.9	9.0	7.2	7.1	
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	58	33	50.1	76.3	95.6	99.6	86.9	97.5	161	129	179	
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	7.2	<0.18	4.3	11.9	14.6	2.1	<0.36	1.6 J	56.9	2.6 J	13.4	
Dissolved Oxygen (mg/l)	NE	NE	1.32	0.70	0.48	1.03	0.39	0.20	0.27	0.60	0.71	0.69	1.04	0.64	0.69	1.14	0.28	0.32	0.28	0.81	0.21	0.97	0.52	
Oxidation-Reduction Potential	NE	NE	163	16.9	174	135	111.5	113	-30.3	59.9	93.0	-84.2	112.6	170	2.0	145.0	93.8	63.6	119.0	-64.4	50.1	87.4	-73.1	101.7

Parameter Name	WDNR NR 140		MW-2D											MW-3											MW-3D	
	PAL	ES	1/24/2008	6/4/2008	8/28/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	5/18/2017	12/1/2017
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	1.2	<0.26	< 0.83	<0.83	1.3	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	1.7	0.88 J	2.0	<0.26	<0.26
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	0.42 J	<0.26	<0.26
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	< 0.45	<0.45	0.51 J	<0.45	<0.57 J	0.64 J	1.0	0.62 J	1.1	3.0	0.61 J	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	0.58 J	<0.33	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	<0.33	
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.42 Q	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Dissolved Oxygen (mg/l)	NE	NE	2.13	1.01	4.35	1.00	0.69	0.84	0.65	0.44	0.49	0.70	0.53	1.40	0.86	0.91	1.13	1.97	0.40	0.89	0.63	0.60	0.90	0.58	1.44	1.46
Oxidation-Reduction Potential	NE	NE	169	3.7	108	11.6	-30.1	87.4	-30.6	1.1	4.4	-74.9	-28	170	12.5	146	96.6	46.3	95.4	-23.2	57.6	23.5	-71.7	176.8	137.9	-24.6

Parameter Name	WDNR NR 140		MW-4											MW-5		GP-10						
	PAL	ES	1/24/2008	6/4/2008	8/28/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	5/18/2017	12/1/2017	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/19/2014
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48
cis-1,2-Dichloroethene	7	70	< 0.83	0.86 J	< 0.83	< 0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	<0.26	1.7	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	< 0.89	< 0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	
Methyl-tert-butyl ether	12	60	<0.61	9.3	9.0	23.6	28.9	22.4	20.3	21.8	NA	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	4.0	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	1.5	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
Dissolved Oxygen (mg/l)	NE	NE	1.30	0.78	0.60	1.14	0.21	0.29	0.42	0.57	3.378	0.30	0.57	4.89	0.45	6.66	1.41	1.26	4.56	1.99	1.0	NM
Oxidation-Reduction Potential	NE	NE	150	11.5	179	56.5	-13.1	46.8	-24.8	62.2	89.0	-74.8	-12.5	157.5	86.5	116	29.8	27.1	-21.3	141.1	31.5	NM

Parameter Name	WDNR NR 140		GP-11			GP-12			GP-13			GP-16				GP-17			Sump-N	Sump-S
	PAL	ES	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	10/1/2015	5/17/2017	11/11/2013	2/19/2014	5/17/2017	2/20/2014	2/20/2014
1,2-Dichloroethane	0.5	5	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48	NA	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48
cis-1,2-Dichloroethene	7	70	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	1.7	1.4	1.2	0.54 J	<0.42	<0.42	<0.26	<0.42	<0.42
trans-1,2-Dichloroethene	20	100	<0.37	<0.37	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37	NA	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37
Methyl-tert-butyl ether	12	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47
1,1,1-Trichloroethane	40	200	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44
Trichloroethene	0.5	5	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36
Vinyl Chloride	0.02	0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.40 J	0.33 J	<0.18	<0					

Table 4. Monitoring Well Casing and Water Level Elevations - Natural Cleaners, Bayside, WI

WELL	Elev USGS Datum	1/24/2008		6/11/2008		8/26/2008		6/25/2009	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.75	18.86	668.89	12.46	675.29	6.79	680.96	6.16	681.59
MW-2	687.69	8.22	679.47	9.58	678.11	9.35	678.34	7.35	680.34
MW-2D	687.64	32.19	655.45	33.08	654.56	30.47	657.17	28.03	659.61
MW-3	686.99	22.05	664.94	18.72	668.27	14.85	672.14	13.82	673.17
MW-4	686.62	22.84	663.78	14.43	672.19	8.94	677.68	6.75	679.87

WELL	Elev USGS Datum	6/3/2010		9/16/2010		12/15/2010		4/5/2011	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.75	10.27	677.48	5.50	682.25	9.98	677.77	9.50	678.25
MW-2	687.69	7.62	680.07	7.47	680.22	11.83	675.86	7.20	680.49
MW-2D	687.64	28.38	659.26	28.49	659.15	32.10	655.54	28.00	659.64
MW-3	686.99	15.15	671.84	14.33	672.66	16.20	670.79	15.61	671.38
MW-4	686.62	7.06	679.56	9.39	677.23	12.00	674.62	9.38	677.24

WELL	Elev USGS Datum	11/11/2013		2/19/2014		5/17/2017	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.80	4.74	683.06	11.01	676.79	7.03	680.77
MW-2	687.74	7.96	679.78	9.22	678.52	7.54	680.20
MW-2D	687.66	28.50	659.16	28.35	659.31	27.11	660.55
MW-3	687.05	13.98	673.07	15.90	671.15	14.34	672.71
MW-3D	687.01	NI	NI	NI	NI	48.35	638.66
MW-4	686.68	8.51	678.17	10.92	675.76	7.92	678.76
MW-5	687.57	NI	NI	NI	NI	20.70	666.87
GP-10	684.27	6.60	677.67	4.17	680.10	NS	NS
GP-11	684.43	3.95	680.48	3.33	681.10	0.51	683.92
GP-12	684.70	5.38	679.32	7.89	676.81	1.40	683.30
GP-13	686.92	7.05	679.87	5.06	681.86	1.25	685.67
GP-16	686.74	2.71	684.03	3.89	682.85	1.85	684.89
GP-17	687.92	3.40	684.52	4.17	683.75	3.23	684.69

Notes: All Water Elevations are in feet above mean sea level.

NI - Not Installed

NS - Not Sampled

ATTACHMENT 1

Boring Logs, Abandonment Forms, Well Construction Reports, and
Well Development Forms

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Page 1 of 1

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number GP-20	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name no well	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin (estimated:) or Boring Location State Plane _____ N, _____ E SW 1/4 of SE 1/4 of Section <u>5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location _____ Feet _____ N _____ E _____ Feet _____ S _____ W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
4			2	Asphalt over Brown gravel base rock				1.9						
			4	Dark Brown Clayey Gravel, some sand. Tan Gravel Base Rock.				1.6						
5			6	-2' Brown Silty Clay, trace med sand, mod stiff, some gray stringers, sl moist.				5.6						
			8					0.9						
2			10	- no stringers				1.2						
			12											
			14	End of boring at 12 feet. Boring abandoned upon completion.										
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

This form is authorized by Chapters 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:
 Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information				2. Facility / Owner Information			
WI Unique Well No.		DNR Well ID No.		County Milwaukee		Facility Name Former Natural Cleaners	
Common Boring Name GP-20			Gov't Lot # (if applicable)			Facility ID	License/Permit/Monitoring No
City, Village or Town Bayside		Street Address of Boring 8828 North Port Washington Road	Present Well Owner	Original Well Owner			Street Address or Route of Owner
1/4 SW	1/4 SE	Section 5	Township 8 N	Range 22	<input checked="" type="checkbox"/> E	<input type="checkbox"/> W	City State ZIP Code
Grid Location Feet		Local Grid Origin		Street Address or Route of Owner			
<input type="checkbox"/> N <input type="checkbox"/> S		<input type="checkbox"/> E <input type="checkbox"/> W		<input type="checkbox"/> (estimated) OR <input type="checkbox"/> Well Location			
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		City State ZIP Code			
N		W		Reason For Abandonment Soil Boring Only			
WI Unique Well No. of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material					

3. Well / Drillhole / Borehole Information	
<input type="checkbox"/> Monitoring Well	Original Construction Date 03/15/2017
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Dug	<input checked="" type="checkbox"/> Other (specify): Geoprobe
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Groundsurface (ft.) 12.0	Casing Diameter (in.) NA
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) NA
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain):
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work		DNR Use Only	
Name of Person or Firm Doing Sealing Work Horizon Drilling	Date of Abandonment 03/15/2017	Date Received	Noted By
Street or Route 764 Tower Drive	Telephone Number ()	Comments	
City Fredonia	State WI	ZIP Code 53021	Signature of Person Doing Work
			Date Signed

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Page 1 of 1

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number GP-21	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: <u>Adam/Dan</u> Last Name: _____ Firm: <u>Horizon Construction</u>		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> <small>m m/ d d/ y y y y</small>	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> <small>m m/ d d/ y y y y</small>	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name no well	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 2 inches
Local Grid Origin (estimated:) or Boring Location State Plane <u>SW 1/4 of SE 1/4 of Section 5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location Lat _____ N _____ E Long _____ S _____ W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
2	4		2	Asphalt over Brown gravel base rock Dark Brown Clayey Gravel, some sand. Tan Gravel Base Rock. -2' Dark Brown Silty Clay, trace med sand. Brown Silty Clay, trace med sand. Brown Silt Clay, mod stiff, trace med sand, gray stringers, sl moist. - fine sand and silt layer 2"				8.9							
			4					33							
			6					31.7							
			8					55							
2			10												
			12	End of boring at 12 feet. Boring abandoned upon completion.											
			14												
			16												
			18												
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

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Route to:
 Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information **2. Facility / Owner Information**

VI Unique Well No.		DNR Well ID No.		County Milwaukee		Facility Name Former Natural Cleaners		
Common Boring Name GP-21			Gov't Lot # (if applicable)			Facility ID	License/Permit/Monitoring No	City, Village or Town Bayside
1/4 SW	1/4 SE	Section 5	Township 8 N	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Street Address of Boring 8828 North Port Washington Road		
Grid Location East		<input type="checkbox"/> N <input type="checkbox"/> S		<input type="checkbox"/> E <input type="checkbox"/> W		<input type="checkbox"/> Local Grid Origin	Present Well Owner	Original Well Owner
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		Street Address or Route of Owner				
City		State		ZIP Code				
Reason For Abandonment Soil Boring Only		WI Unique Well No. of Replacement Well						

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well		Original Construction Date 03/15/2017	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type:			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)	<input type="checkbox"/> Dug
<input checked="" type="checkbox"/> Other (specify): Geoprobe			
Formation Type:			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock	
Total Well Depth From Groundsurface (ft.) 12.0		Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) NA	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material				
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain):		
Sealing Materials				
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:				
<input checked="" type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Sealing Work Horizon Drilling		Date of Abandonment 03/15/2017		DNR Use Only	
Street or Route 764 Tower Drive		Telephone Number ()		Date Received	
City Fredonia		State WI		Noted By	
ZIP Code 53021		Signature of Person Doing Work		Comments	
				Date Signed	

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Page 1 of 1

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number GP-22	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name no well	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin (estimated:) or Boring Location State Plane N, _____ E SW 1/4 of SE 1/4 of Section <u>5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location _____ Feet _____ N _____ E _____ Feet _____ S _____ Feet _____ W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties							RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
3.5			2	Asphalt over Brown gravel base rock				41								
			4	Dark Brown Clayey Gravel, some sand.												
			6	Tan Gravel Base Rock.												
5			8	Dark Brown Silty Clay, trace med sand.				49								
			10	- 2' Brown Silt Clay, mod stiff, trace coarse sand, gray stringers, sl moist.					56							
2			12	- no stringers				4.1								
			14	End of boring at 12 feet.												
			16	Boring abandoned upon completion.												
			18													
			20													
			22													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

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Route to:
 Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County Milwaukee
Common Boring Name GP-22		Gov't Lot # (if applicable)
1/4 SW	1/4 SE	Section 5
Township 8 N		Range 22 W
Grid Location Feet: <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W		<input type="checkbox"/> Local Grid Origin <input type="checkbox"/> (estimated) OR <input type="checkbox"/> Well Location
Latitude: DEG MIN SEC N		Longitude: DEG MIN SEC W
Reason For Abandonment Soil Boring Only		WI Unique Well No. of Replacement Well

2. Facility / Owner Information

Facility Name Former Natural Cleaners		
Facility ID	License/Permit/Monitoring No	City, Village or Town Bayside
Street Address of Boring 8828 North Port Washington Road		
Present Well Owner		Original Well Owner
Street Address or Route of Owner		
City	State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date 03/15/2017
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Geoprobe	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Total Well Depth From Groundsurface (ft.) 12.0	Casing Diameter (in.) NA
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) NA
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet)

Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain):
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Sealing Work Horizon Drilling	Date of Abandonment 03/15/2017	DNR Use Only	
		Date Received	Noted By
Street or Route 764 Tower Drive	Telephone Number ()	Comments	
City Fredonia	State WI	ZIP Code 53021	Signature of Person Doing Work Date Signed

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Page 1 of 1

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number GP-23	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name no well	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin (estimated:) or Boring Location State Plane <u>N</u> , <u>E</u> SW <u>1/4</u> of SE <u>1/4</u> of Section <u>5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location _____ Feet <u>N</u> <u>E</u> _____ Feet <u>S</u> <u>W</u>		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
2.5	5		2	Asphalt over Brown gravel base rock				1.2							
			4	Dark Brown Clayey Gravel, some sand.				0.8							
			6	Tan Gravel Base Rock.					1.4						
			8	Dark Brown Silty Clay, trace med sand.					2.8						
2			10	-2' Brown Silty Clay, trace med sand.				0.9							
			12	-5' Brown Silt Clay, mod stiff, trace coarse sand, gray stringers, sl moist.											
			14	End of boring at 12 feet.											
			16	Boring abandoned upon completion.											
			18												
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

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Route to:
 Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information **2. Facility / Owner Information**

WI Unique Well No.		DNR Well ID No.		County Milwaukee		Facility Name Former Natural Cleaners	
Common Boring Name GP-23		Gov't Lot # (if applicable)		Facility ID		License/Permit/Monitoring No	
City, Village or Town Bayside		Street Address of Boring 8828 North Port Washington Road		Present Well Owner		Original Well Owner	
Latitude: DEG MIN SEC N		Longitude: DEG MIN SEC W		City		State ZIP Code	

Reason For Abandonment: Soil Boring Only WI Unique Well No. of Replacement Well: _____

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date 03/15/2017		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Geoprobe		If a Well Construction Report is available, please attach.		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Information Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Groundsurface (ft.) 12.0		Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) NA		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips	
Depth to Water (feet)		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Sealing Work Horizon Drilling		Date of Abandonment 03/15/2017		Date Received		Noted By	
Street or Route 764 Tower Drive		Telephone Number ()		Comments			
City Fredonia		State WI		ZIP Code 53021		Signature of Person Doing Work	
						Date Signed	

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number GP-24	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name no well	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin (estimated:) or Boring Location State Plane _____ N, _____ E SW 1/4 of SE 1/4 of Section <u>5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location _____ Feet _____ N _____ E _____ Feet _____ S _____ W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
3			2	Asphalt over Brown gravel base rock				1.8							
			4	Dark Brown Sandy Gravel, some fines.				0.5							
			6	Tan Gravel Base Rock.				1.7							
5			8	-1' Dark Brown Silty Clay, trace med sand.											
			10	-3' Brown Silty Clay, soft, moist				2.9							
2			12	-5' Brown Silt Clay, mod stiff, trace sand and gravel, gray stringers, sl moist.				1.7							
			14	- silt seam											
			16	- no stringers											
			18												
			20												
			22												
				End of boring at 12 feet. Boring abandoned upon completion.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

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Route to:
 Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information **2. Facility / Owner Information**

VI Unique Well No.		DNR Well ID No.		County Milwaukee		Facility Name Former Natural Cleaners	
Common Boring Name GP-24				Gov't Lot # (if applicable)		Facility ID	License/Permit/Monitoring No
City, Village or Town Bayside		Street Address of Boring 8828 North Port Washington Road					
1/4 SW		1/4 SE		Section 5		Township 8 N	
						Range 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Grid Location				Local Grid Origin <input type="checkbox"/>			
Feet <input type="checkbox"/> N <input type="checkbox"/> S		Feet <input type="checkbox"/> E <input type="checkbox"/> W		(estimated) OR <input type="checkbox"/> Well Location			
Latitude: DEG MIN SEC		Longitude: DEG MIN SEC		City			
				State		ZIP Code	
Reason For Abandonment Soil Boring Only		WI Unique Well No. of Replacement Well					

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date 03/15/2017	
If a Well Construction Report is available, please attach.			
Construction Type:			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)	
<input checked="" type="checkbox"/> Other (specify): Geoprobe		<input type="checkbox"/> Dug	
Formation Type:			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock	
Total Well Depth From Groundsurface (ft.) 12.0		Casing Diameter (in.) NA	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) NA	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	
Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain):	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input checked="" type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch		Surface	0.5		
Chipped bentonite		0.5	12.0		

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Sealing Work Horizon Drilling		Date of Abandonment 03/15/2017	Date Received	Noted By
Street or Route 764 Tower Drive		Telephone Number ()	Comments	
City Fredonia	State WI	ZIP Code 53021	Signature of Person Doing Work	
			Date Signed	

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number MW-3D	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe then HSA	
WI Unique Well No.	DNR Well ID No.	Well Name MW-3D	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 2 then 8 inches
Local Grid Origin (estimated:) or Boring Location State Plane N, E SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E			Local Grid Location _____ Feet S _____ Feet W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties							RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
			2	Boring blind drilled to 25 feet. Please see boring log MW-3 for description.												
			4													
			6													
			8													
			10													
			12													
			14													
			16													
			18													
			20													
			22													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name former Natural Cleaners	County Name Milwaukee	Well Name MW-3D	
Facility License, Permit or Monitoring Number	County Code 41	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other

3. Time spent developing well _____ 80 _____ min.

4. Depth of well (from top of well casing) _____ 50.3 _____ ft.

5. Inside diameter of well _____ 2 _____ in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well _____ 2.5 _____ gal.

8. Volume of water added (if any) _____ 0 _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 46.1 _____ ft.	_____ 50.3 _____ ft.
Date	b. _____ 05 / 11 / 2017 _____	_____ 05 / 11 / 2017 _____
Time	c. _____ 12 : 45 _____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	_____ 14 : 05 _____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0 _____ inches	_____ 0 _____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe)	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Patrick Last Name: Allenstein
Firm: KPRG and Associates, Inc.

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____

Facility/Firm: _____ former Natural Cleaners _____

Street: _____ 8828 Port Washington Road _____

City/State/Zip: _____ Bayside, WI _____

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: _____ Patrick Allenstein _____

Firm: _____ KPRG and Associates, Inc. _____

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed / Wastewater Waste Management
Remediation / Redevelopment Other

Page 1 of 2

Facility/Project Name former Natural Cleaners		License/Permit/Monitoring Number		Boring Number MW-5	
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: <u>Adam/Dan</u> Last Name: _____ Firm: <u>Horizon Construction</u>		Date Drilling Started <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Date Drilling Completed <u>0 3 1 5 2 0 1 7</u> m m/ d d/ y y y y y	Drilling Method Geoprobe then HSA	
WI Unique Well No.	DNR Well ID No.	Well Name MW-05	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter 2 then 8 inches
Local Grid Origin (estimated:) or Boring Location State Plane _____ N, _____ E SW <u>1/4</u> of SE <u>1/4</u> of Section <u>5</u> , T <u>8</u> N, R <u>22</u> E			Local Grid Location Lat _____ Long _____ _____ Feet _____ N _____ Feet _____ S _____ Feet _____ E _____ Feet _____ W		
Facility ID 341140250	County Milwaukee	County Code 41	Civil Town / City / or Village Bayside		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
3			2	Asphalt over Brown gravel base rock											
			4	Dark Brown Sandy Gravel, some fines.				2.4							
			4	Tan Gravel Base Rock.				1.3							
5			6	-1' Dark Brown Silty Clay, trace med sand.				4.1							
			8	-2' Brown Silty Clay, mod soft, sl moist				3.2							
			10	-5' Brown Silt Clay, trace med to coarse sand, gray stringers, sl moist.				812							
5			12	- no stringers				430							
			14	- silt and fine sand seam											
			16	Gray Silty Clay, trace med sand, sl moist.				520							
2			18					333							
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm **KPRG and Associates, Inc.**

This form is authorized by Chapters 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample		Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD / Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			24	from above Gray Silty Clay, trace med sand, sl moist.				510							
			26	End of Boring at 25 feet. Boring converted to monitoring well.											
			28												
			30												
			32												
			34												
			36												
			38												
			40												
			42												
			44												
			46												
			48												
			50												
			52												
			54												
			56												
			58												
			60												
			62												

Facility/Project Name Former Natural Cleaners	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID 341140250	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 0 3 / 1 5 / 2 0 1 7 m m d d y y v v y
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SE 1/4 of Sec. 5, T. 8 N, R. 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm A. Sweet
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		Horizon Drilling _____

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. <input type="checkbox"/> 12 b. Length: _____ ft. <input type="checkbox"/> 1 c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or _____ 1 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Geoprobe/HSA _____ Other <input checked="" type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or _____ 1 ft.	10. Screen material: a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ 8 ft.	b. Manufacturer _____ c. Slot size: _____ 0. 010 in. d. Slotted length: _____ 15 ft.
G. Filter pack, top _____ ft. MSL or _____ 8 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or _____ 10 ft.	
I. Well bottom _____ ft. MSL or _____ 25 ft.	
J. Filter pack, bottom _____ ft. MSL or _____ 25 ft.	
K. Borehole, bottom _____ ft. MSL or _____ 25 ft.	
L. Borehole, diameter _____ 8 in.	
M. O.D. well casing _____ in.	
N. I.D. well casing _____ 2.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm KPRG and Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name former Natural Cleaners	County Name Milwaukee	Well Name MW-5	
Facility License, Permit or Monitoring Number	County Code 41	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____

3. Time spent developing well _____ 60 _____ min.

4. Depth of well (from top of well casing) _____ 25.2 _____ ft.

5. Inside diameter of well _____ 2 _____ in.

6. Volume of water in filter pack and well casing _____ gal.

7. Volume of water removed from well _____ 5 . 0 gal.

8. Volume of water added (if any) _____ 0 _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 10.2 _____ ft.	_____ 25.2 _____ ft.
Date	b. _____ 05 / 11 / 2017 _____	_____ 05 / 11 / 2017 _____
Time	c. _____ 13 : 45 _____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	_____ 14 : 45 _____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ 0 _____ inches	_____ 0 _____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Patrick Last Name: Allenstein

Firm: KPRG and Associates, Inc.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: former Natural Cleaners

Street: 8828 Port Washington Road

City/State/Zip: Bayside, WI

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: _____

Print Name: Patrick Allenstein

Firm: KPRG and Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

ATTACHMENT 2

Analytical Data Packages

December 07, 2017

Rich Gnat
KPRG and Associates, Inc.
14665 W. Lisbon Rd.
Suite 2B
Brookfield, WI 53005

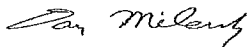
RE: Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Dear Rich Gnat:

Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2017. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Josh Davenport, KPRG and Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161815001	MW-3D	Water	12/01/17 11:50	12/05/17 08:15
40161815002	MW-5	Water	12/01/17 13:00	12/05/17 08:15
40161815003	DUP	Water	12/01/17 00:00	12/05/17 08:15
40161815004	TRIP BLANK	Water	12/01/17 00:00	12/05/17 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40161815001	MW-3D	EPA 8260	HNW	13	PASI-G
40161815002	MW-5	EPA 8260	HNW	13	PASI-G
40161815003	DUP	EPA 8260	HNW	13	PASI-G
40161815004	TRIP BLANK	EPA 8260	HNW	13	PASI-G

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SUMMARY OF DETECTION

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161815002	MW-5					
EPA 8260	Tetrachloroethene	4.0	ug/L	1.0	12/06/17 16:32	
EPA 8260	Trichloroethene	1.5	ug/L	1.0	12/06/17 16:32	
EPA 8260	cis-1,2-Dichloroethene	1.7	ug/L	1.0	12/06/17 16:32	
40161815003	DUP					
EPA 8260	Tetrachloroethene	3.6	ug/L	1.0	12/06/17 16:54	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	12/06/17 16:54	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	12/06/17 16:54	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: MW-3D Lab ID: 40161815001 Collected: 12/01/17 11:50 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/06/17 16:10	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/06/17 16:10	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/06/17 16:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/06/17 16:10	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/06/17 16:10	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/06/17 16:10	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/06/17 16:10	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/06/17 16:10	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 16:10	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 16:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		12/06/17 16:10	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		12/06/17 16:10	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/06/17 16:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: MW-5 Lab ID: 40161815002 Collected: 12/01/17 13:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/06/17 16:32	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/06/17 16:32	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/06/17 16:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/06/17 16:32	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/06/17 16:32	107-06-2	
Tetrachloroethene	4.0	ug/L	1.0	0.50	1		12/06/17 16:32	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		12/06/17 16:32	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/06/17 16:32	75-01-4	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.26	1		12/06/17 16:32	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 16:32	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/06/17 16:32	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		12/06/17 16:32	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/06/17 16:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: DUP Lab ID: 40161815003 Collected: 12/01/17 00:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/06/17 16:54	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/06/17 16:54	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/06/17 16:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/06/17 16:54	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/06/17 16:54	107-06-2	
Tetrachloroethene	3.6	ug/L	1.0	0.50	1		12/06/17 16:54	127-18-4	
Trichloroethene	1.3	ug/L	1.0	0.33	1		12/06/17 16:54	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/06/17 16:54	75-01-4	
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.26	1		12/06/17 16:54	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 16:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/06/17 16:54	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		12/06/17 16:54	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/06/17 16:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: TRIP BLANK Lab ID: 40161815004 Collected: 12/01/17 00:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/06/17 12:54	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		12/06/17 12:54	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/06/17 12:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/06/17 12:54	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		12/06/17 12:54	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/06/17 12:54	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/06/17 12:54	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		12/06/17 12:54	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 12:54	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		12/06/17 12:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		12/06/17 12:54	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		12/06/17 12:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/06/17 12:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

QC Batch: 276249 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161815001, 40161815002, 40161815003, 40161815004

METHOD BLANK: 1624805 Matrix: Water
Associated Lab Samples: 40161815001, 40161815002, 40161815003, 40161815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/06/17 09:15	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/06/17 09:15	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/06/17 09:15	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/06/17 09:15	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/06/17 09:15	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/06/17 09:15	
Tetrachloroethene	ug/L	<0.50	1.0	12/06/17 09:15	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/06/17 09:15	
Trichloroethene	ug/L	<0.33	1.0	12/06/17 09:15	
Vinyl chloride	ug/L	<0.18	1.0	12/06/17 09:15	
4-Bromofluorobenzene (S)	%	91	61-130	12/06/17 09:15	
Dibromofluoromethane (S)	%	100	67-130	12/06/17 09:15	
Toluene-d8 (S)	%	105	70-130	12/06/17 09:15	

LABORATORY CONTROL SAMPLE: 1624806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	71-132	
1,1-Dichloroethene	ug/L	50	53.0	106	75-130	
1,2-Dichloroethane	ug/L	50	54.7	109	70-131	
cis-1,2-Dichloroethene	ug/L	50	55.8	112	70-130	
Tetrachloroethene	ug/L	50	54.2	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.0	106	75-132	
Trichloroethene	ug/L	50	55.3	111	70-130	
Vinyl chloride	ug/L	50	49.2	98	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			103	67-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624938 1624939

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40161867012 Result	Conc.	Conc.	Result						
1,1,1-Trichloroethane	ug/L	<2.5	1000	1000	978	1040	98	104	70-134	6	20
1,1,2-Trichloroethane	ug/L	<0.99	1000	1000	1050	1210	105	121	70-130	14	20
1,1-Dichloroethane	ug/L	<1.2	1000	1000	1030	1070	103	107	71-133	4	20

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QUALITY CONTROL DATA

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624938		1624939		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40161867012 Result	MS Spike Conc.	MSD Spike Conc.								
1,1-Dichloroethene	ug/L	<2.1	1000	1000	1050	1070	105	107	75-136	2	20	
1,2-Dichloroethane	ug/L	<0.84	1000	1000	997	1090	100	109	70-131	9	20	
cis-1,2-Dichloroethene	ug/L	<1.3	1000	1000	962	1010	96	101	70-130	5	20	
Tetrachloroethene	ug/L	<2.5	1000	1000	1030	1120	103	112	70-130	8	20	
trans-1,2-Dichloroethene	ug/L	<1.3	1000	1000	1050	1080	105	108	75-135	3	20	
Trichloroethene	ug/L	<1.7	1000	1000	1030	1090	103	109	70-130	6	20	
Vinyl chloride	ug/L	<0.88	1000	1000	1040	1080	104	108	56-143	3	20	
4-Bromofluorobenzene (S)	%						99	97	61-130			
Dibromofluoromethane (S)	%						102	105	67-130			
Toluene-d8 (S)	%						103	102	70-130			

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QUALIFIERS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161815001	MW-3D	EPA 8260	276249		
40161815002	MW-5	EPA 8260	276249		
40161815003	DUP	EPA 8260	276249		
40161815004	TRIP BLANK	EPA 8260	276249		

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Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40161815**

Client Name: KPRGI



Courier: Fed Ex UPS Client Pace Other: US Logistics
Tracking #: _____

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/15/17
Initials: KJ

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>no MS/MSD K& 12/15/17</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>386</u>		

Client Notification/ Resolution: _____ Date/Time: _____
Person Contacted: _____
Comments/ Resolution: _____

Project Manager Review: RAR for DM Date: 12/15/17

March 23, 2017

Rich Gnat
KPRG and Associates, Inc.
14665 W. Lisbon Rd.
Suite 2B
Brookfield, WI 53005

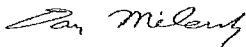
RE: Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Dear Rich Gnat:

Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2017. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Josh Davenport, KPRG and Associates, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40146960001	GP-20 1-3	Solid	03/15/17 10:00	03/18/17 08:30
40146960002	GP-20 5-7	Solid	03/15/17 10:05	03/18/17 08:30
40146960003	GP-21 1-3	Solid	03/15/17 10:30	03/18/17 08:30
40146960004	GP-21 10-12	Solid	03/15/17 10:35	03/18/17 08:30
40146960005	GP-22 1-3	Solid	03/15/17 11:00	03/18/17 08:30
40146960006	GP-22 8-10	Solid	03/15/17 11:05	03/18/17 08:30
40146960007	GP-23 1-3	Solid	03/15/17 15:20	03/18/17 08:30
40146960008	GP-23 8-10	Solid	03/15/17 15:25	03/18/17 08:30
40146960009	GP-24 1-3	Solid	03/15/17 16:00	03/18/17 08:30
40146960010	GP-24 8-10	Solid	03/15/17 16:05	03/18/17 08:30
40146960011	MW-5 1-3	Solid	03/15/17 11:30	03/18/17 08:30
40146960012	MW-5 10-12	Solid	03/15/17 11:35	03/18/17 08:30

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SAMPLE ANALYTE COUNT

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40146960001	GP-20 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960002	GP-20 5-7	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960003	GP-21 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960004	GP-21 10-12	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960005	GP-22 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960006	GP-22 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960007	GP-23 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960008	GP-23 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960009	GP-24 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960010	GP-24 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960011	MW-5 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960012	MW-5 10-12	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40146960001	GP-20 1-3					
EPA 8260	Tetrachloroethene	138	ug/kg	71.6	03/22/17 13:01	
EPA 8260	Vinyl chloride	51.5J	ug/kg	71.6	03/22/17 13:01	
ASTM D2974-87	Percent Moisture	16.2	%	0.10	03/20/17 10:38	
40146960002	GP-20 5-7					
EPA 8260	cis-1,2-Dichloroethene	142	ug/kg	70.7	03/21/17 17:46	
EPA 8260	trans-1,2-Dichloroethene	38.3J	ug/kg	70.7	03/21/17 17:46	
EPA 8260	Tetrachloroethene	949	ug/kg	70.7	03/21/17 17:46	
EPA 8260	Trichloroethene	668	ug/kg	70.7	03/21/17 17:46	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	03/20/17 10:38	
40146960003	GP-21 1-3					
EPA 8260	cis-1,2-Dichloroethene	159	ug/kg	71.6	03/21/17 18:09	
EPA 8260	trans-1,2-Dichloroethene	207	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Tetrachloroethene	90.7	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Trichloroethene	68.3J	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Vinyl chloride	321	ug/kg	71.6	03/21/17 18:09	
ASTM D2974-87	Percent Moisture	16.1	%	0.10	03/20/17 10:38	
40146960004	GP-21 10-12					
EPA 8260	cis-1,2-Dichloroethene	573J	ug/kg	698	03/21/17 20:25	
EPA 8260	Tetrachloroethene	54200	ug/kg	698	03/21/17 20:25	
EPA 8260	Trichloroethene	3440	ug/kg	698	03/21/17 20:25	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	03/20/17 10:38	
40146960005	GP-22 1-3					
EPA 8260	Tetrachloroethene	149	ug/kg	72.9	03/21/17 18:31	
EPA 8260	Vinyl chloride	42.6J	ug/kg	72.9	03/21/17 18:31	
ASTM D2974-87	Percent Moisture	17.7	%	0.10	03/20/17 10:38	
40146960006	GP-22 8-10					
EPA 8260	Tetrachloroethene	7480	ug/kg	137	03/21/17 20:47	
EPA 8260	Trichloroethene	750	ug/kg	137	03/21/17 20:47	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	03/20/17 10:38	
40146960007	GP-23 1-3					
EPA 8260	Tetrachloroethene	88.4	ug/kg	70.9	03/21/17 18:54	
EPA 8260	Vinyl chloride	54.3J	ug/kg	70.9	03/21/17 18:54	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	03/20/17 10:38	
40146960008	GP-23 8-10					
EPA 8260	Tetrachloroethene	3460	ug/kg	70.5	03/21/17 19:17	
EPA 8260	Trichloroethene	316	ug/kg	70.5	03/21/17 19:17	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	03/20/17 10:38	
40146960009	GP-24 1-3					
EPA 8260	Tetrachloroethene	635	ug/kg	72.0	03/22/17 13:24	
EPA 8260	Trichloroethene	226	ug/kg	72.0	03/22/17 13:24	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	03/18/17 12:13	

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SUMMARY OF DETECTION

Project: 18806-3 FMR NATURAL CLEANERS
 Pace Project No.: 40146960

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40146960010	GP-24 8-10					
EPA 8260	cis-1,2-Dichloroethene	39.6J	ug/kg	69.5	03/22/17 14:09	
EPA 8260	Tetrachloroethene	4690	ug/kg	69.5	03/22/17 14:09	
EPA 8260	Trichloroethene	403	ug/kg	69.5	03/22/17 14:09	
ASTM D2974-87	Percent Moisture	13.7	%	0.10	03/18/17 12:13	
40146960011	MW-5 1-3					
EPA 8260	cis-1,2-Dichloroethene	76.1	ug/kg	75.9	03/22/17 13:46	
EPA 8260	Tetrachloroethene	844	ug/kg	75.9	03/22/17 13:46	
EPA 8260	Trichloroethene	305	ug/kg	75.9	03/22/17 13:46	
ASTM D2974-87	Percent Moisture	20.9	%	0.10	03/18/17 12:13	
40146960012	MW-5 10-12					
EPA 8260	Tetrachloroethene	1670	ug/kg	70.2	03/22/17 12:39	
EPA 8260	Trichloroethene	78.5	ug/kg	70.2	03/22/17 12:39	
ASTM D2974-87	Percent Moisture	14.5	%	0.10	03/18/17 12:13	

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-20 1-3 Lab ID: 40146960001 Collected: 03/15/17 10:00 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	156-60-5	W
Tetrachloroethene	138	ug/kg	71.6	29.8	1	03/22/17 07:00	03/22/17 13:01	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	79-01-6	W
Vinyl chloride	51.5J	ug/kg	71.6	29.8	1	03/22/17 07:00	03/22/17 13:01	75-01-4	
Surrogates									
Dibromofluoromethane (S)	108	%	53-165		1	03/22/17 07:00	03/22/17 13:01	1868-53-7	
Toluene-d8 (S)	109	%	54-163		1	03/22/17 07:00	03/22/17 13:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	03/22/17 07:00	03/22/17 13:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	16.2	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-20 5-7 Lab ID: 40146960002 Collected: 03/15/17 10:05 Received: 03/18/17 08:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-35-4	W
cis-1,2-Dichloroethene	142	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	156-59-2	
trans-1,2-Dichloroethene	38.3J	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	156-60-5	
Tetrachloroethene	949	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	79-00-5	W
Trichloroethene	668	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	125	%	53-165		1	03/21/17 07:30	03/21/17 17:46	1868-53-7	
Toluene-d8 (S)	117	%	54-163		1	03/21/17 07:30	03/21/17 17:46	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-138		1	03/21/17 07:30	03/21/17 17:46	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.1	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-21 1-3 Lab ID: 40146960003 Collected: 03/15/17 10:30 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	75-35-4	W
cis-1,2-Dichloroethene	159	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	156-59-2	
trans-1,2-Dichloroethene	207	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	156-60-5	
Tetrachloroethene	90.7	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	79-00-5	W
Trichloroethene	68.3J	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	79-01-6	
Vinyl chloride	321	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	75-01-4	
Surrogates									
Dibromofluoromethane (S)	106	%	53-165		1	03/21/17 07:30	03/21/17 18:09	1868-53-7	
Toluene-d8 (S)	102	%	54-163		1	03/21/17 07:30	03/21/17 18:09	2037-26-5	
4-Bromofluorobenzene (S)	91	%	48-138		1	03/21/17 07:30	03/21/17 18:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	16.1	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
 Pace Project No.: 40146960

Sample: GP-21 10-12 Lab ID: 40146960004 Collected: 03/15/17 10:35 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-34-3	W
1,2-Dichloroethane	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	107-06-2	W
1,1-Dichloroethene	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-35-4	W
cis-1,2-Dichloroethene	573J	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	156-59-2	
trans-1,2-Dichloroethene	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	156-60-5	W
Tetrachloroethene	54200	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	127-18-4	
1,1,1-Trichloroethane	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	71-55-6	W
1,1,2-Trichloroethane	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	79-00-5	W
Trichloroethene	3440	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	79-01-6	
Vinyl chloride	<250	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	118	%	53-165		10	03/21/17 07:30	03/21/17 20:25	1868-53-7	
Toluene-d8 (S)	109	%	54-163		10	03/21/17 07:30	03/21/17 20:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-138		10	03/21/17 07:30	03/21/17 20:25	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.1	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
 Pace Project No.: 40146960

Sample: GP-22 1-3 Lab ID: 40146960005 Collected: 03/15/17 11:00 Received: 03/18/17 08:30 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	156-60-5	W
Tetrachloroethene	149	ug/kg	72.9	30.4	1	03/21/17 07:30	03/21/17 18:31	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	79-01-6	W
Vinyl chloride	42.6J	ug/kg	72.9	30.4	1	03/21/17 07:30	03/21/17 18:31	75-01-4	
Surrogates									
Dibromofluoromethane (S)	93	%	53-165		1	03/21/17 07:30	03/21/17 18:31	1868-53-7	
Toluene-d8 (S)	87	%	54-163		1	03/21/17 07:30	03/21/17 18:31	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-138		1	03/21/17 07:30	03/21/17 18:31	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.7	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
 Pace Project No.: 40146960

Sample: GP-22 8-10 Lab ID: 40146960006 Collected: 03/15/17 11:05 Received: 03/18/17 08:30 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-34-3	W
1,2-Dichloroethane	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	107-06-2	W
1,1-Dichloroethene	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-35-4	W
cis-1,2-Dichloroethene	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	156-59-2	W
trans-1,2-Dichloroethene	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	156-60-5	W
Tetrachloroethene	7480	ug/kg	137	57.1	2	03/21/17 07:30	03/21/17 20:47	127-18-4	
1,1,1-Trichloroethane	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	71-55-6	W
1,1,2-Trichloroethane	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	79-00-5	W
Trichloroethene	750	ug/kg	137	57.1	2	03/21/17 07:30	03/21/17 20:47	79-01-6	
Vinyl chloride	<50.0	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	119	%	53-165		2	03/21/17 07:30	03/21/17 20:47	1868-53-7	
Toluene-d8 (S)	115	%	54-163		2	03/21/17 07:30	03/21/17 20:47	2037-26-5	
4-Bromofluorobenzene (S)	105	%	48-138		2	03/21/17 07:30	03/21/17 20:47	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
 Pace Project No.: 40146960

Sample: GP-23 1-3 Lab ID: 40146960007 Collected: 03/15/17 15:20 Received: 03/18/17 08:30 Matrix: Solid
 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	156-60-5	W
Tetrachloroethene	88.4	ug/kg	70.9	29.6	1	03/21/17 07:30	03/21/17 18:54	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	79-01-6	W
Vinyl chloride	54.3J	ug/kg	70.9	29.6	1	03/21/17 07:30	03/21/17 18:54	75-01-4	
Surrogates									
Dibromofluoromethane (S)	111	%	53-165		1	03/21/17 07:30	03/21/17 18:54	1868-53-7	
Toluene-d8 (S)	106	%	54-163		1	03/21/17 07:30	03/21/17 18:54	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-138		1	03/21/17 07:30	03/21/17 18:54	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.4	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-23 8-10 Lab ID: 40146960008 Collected: 03/15/17 15:25 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	156-60-5	W
Tetrachloroethene	3460	ug/kg	70.5	29.4	1	03/21/17 07:30	03/21/17 19:17	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	79-00-5	W
Trichloroethene	316	ug/kg	70.5	29.4	1	03/21/17 07:30	03/21/17 19:17	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	113	%	53-165		1	03/21/17 07:30	03/21/17 19:17	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	03/21/17 07:30	03/21/17 19:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%	48-138		1	03/21/17 07:30	03/21/17 19:17	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.9	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-24 1-3 Lab ID: 40146960009 Collected: 03/15/17 16:00 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	156-60-5	W
Tetrachloroethene	635	ug/kg	72.0	30.0	1	03/22/17 07:00	03/22/17 13:24	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	79-00-5	W
Trichloroethene	226	ug/kg	72.0	30.0	1	03/22/17 07:00	03/22/17 13:24	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	110	%	53-165		1	03/22/17 07:00	03/22/17 13:24	1868-53-7	
Toluene-d8 (S)	101	%	54-163		1	03/22/17 07:00	03/22/17 13:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	48-138		1	03/22/17 07:00	03/22/17 13:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	16.7	%	0.10	0.10	1		03/18/17 12:13		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-24 8-10 Lab ID: 40146960010 Collected: 03/15/17 16:05 Received: 03/18/17 08:30 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-35-4	W
cis-1,2-Dichloroethene	39.6J	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	156-59-2	
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	156-60-5	W
Tetrachloroethene	4690	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	79-00-5	W
Trichloroethene	403	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	115	%	53-165		1	03/22/17 07:00	03/22/17 14:09	1868-53-7	
Toluene-d8 (S)	110	%	54-163		1	03/22/17 07:00	03/22/17 14:09	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	03/22/17 07:00	03/22/17 14:09	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.7	%	0.10	0.10	1		03/18/17 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: MW-5 1-3 Lab ID: 40146960011 Collected: 03/15/17 11:30 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-35-4	W
cis-1,2-Dichloroethene	76.1	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	156-59-2	
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	156-60-5	W
Tetrachloroethene	844	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	79-00-5	W
Trichloroethene	305	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	03/22/17 07:00	03/22/17 13:46	1868-53-7	
Toluene-d8 (S)	107	%	54-163		1	03/22/17 07:00	03/22/17 13:46	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-138		1	03/22/17 07:00	03/22/17 13:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	20.9	%	0.10	0.10	1		03/18/17 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: MW-5 10-12 Lab ID: 40146960012 Collected: 03/15/17 11:35 Received: 03/18/17 08:30 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	156-60-5	W
Tetrachloroethene	1670	ug/kg	70.2	29.2	1	03/22/17 07:00	03/22/17 12:39	127-18-4	
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	79-00-5	W
Trichloroethene	78.5	ug/kg	70.2	29.2	1	03/22/17 07:00	03/22/17 12:39	79-01-6	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	115	%	53-165		1	03/22/17 07:00	03/22/17 12:39	1868-53-7	
Toluene-d8 (S)	109	%	54-163		1	03/22/17 07:00	03/22/17 12:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	48-138		1	03/22/17 07:00	03/22/17 12:39	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.5	%	0.10	0.10	1		03/18/17 12:13		

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250720 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008

METHOD BLANK: 1479754 Matrix: Solid
Associated Lab Samples: 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/21/17 11:21	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/21/17 11:21	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/21/17 11:21	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/21/17 11:21	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/21/17 11:21	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/21/17 11:21	
Tetrachloroethene	ug/kg	<12.9	50.0	03/21/17 11:21	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/21/17 11:21	
Trichloroethene	ug/kg	<23.6	50.0	03/21/17 11:21	
Vinyl chloride	ug/kg	<21.1	50.0	03/21/17 11:21	
4-Bromofluorobenzene (S)	%	93	48-138	03/21/17 11:21	
Dibromofluoromethane (S)	%	103	53-165	03/21/17 11:21	
Toluene-d8 (S)	%	101	54-163	03/21/17 11:21	

LABORATORY CONTROL SAMPLE: 1479755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2840	114	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2570	103	70-130	
1,1-Dichloroethane	ug/kg	2500	2830	113	70-133	
1,1-Dichloroethene	ug/kg	2500	2650	106	70-130	
1,2-Dichloroethane	ug/kg	2500	3110	124	70-138	
cis-1,2-Dichloroethene	ug/kg	2500	2590	104	70-130	
Tetrachloroethene	ug/kg	2500	2430	97	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2540	102	70-130	
Trichloroethene	ug/kg	2500	2560	102	70-130	
Vinyl chloride	ug/kg	2500	2750	110	57-130	
4-Bromofluorobenzene (S)	%			102	48-138	
Dibromofluoromethane (S)	%			109	53-165	
Toluene-d8 (S)	%			104	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479756 1479757

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40146959005 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
1,1,1-Trichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1610	1660	105	109	70-130	3	20	
1,1,2-Trichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1530	1640	100	107	70-130	7	20	

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Parameter	Units	40146959005		1479756		1479757		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,1-Dichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1740	1720	114	113	64-133	1	20			
1,1-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1490	1300	98	85	56-130	14	24			
1,2-Dichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1910	1980	125	130	70-138	4	20			
cis-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1600	1640	105	108	70-130	2	20			
Tetrachloroethene	ug/kg	<0.025 mg/kg	1530	1530	1400	1380	92	90	70-130	2	20			
trans-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1480	1550	97	101	70-130	4	20			
Trichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1550	1550	102	102	70-130	0	20			
Vinyl chloride	ug/kg	<0.025 mg/kg	1530	1530	1280	1310	84	86	26-130	2	20			
4-Bromofluorobenzene (S)	%						104	109	48-138					
Dibromofluoromethane (S)	%						114	119	53-165					
Toluene-d8 (S)	%						112	113	54-163					

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250782 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40146960001, 40146960009, 40146960010, 40146960011, 40146960012

METHOD BLANK: 1479976 Matrix: Solid
Associated Lab Samples: 40146960001, 40146960009, 40146960010, 40146960011, 40146960012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/22/17 09:34	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/22/17 09:34	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/22/17 09:34	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/22/17 09:34	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/22/17 09:34	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/22/17 09:34	
Tetrachloroethene	ug/kg	<12.9	50.0	03/22/17 09:34	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/22/17 09:34	
Trichloroethene	ug/kg	<23.6	50.0	03/22/17 09:34	
Vinyl chloride	ug/kg	<21.1	50.0	03/22/17 09:34	
4-Bromofluorobenzene (S)	%	97	48-138	03/22/17 09:34	
Dibromofluoromethane (S)	%	112	53-165	03/22/17 09:34	
Toluene-d8 (S)	%	108	54-163	03/22/17 09:34	

LABORATORY CONTROL SAMPLE: 1479977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2640	106	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2250	90	70-130	
1,1-Dichloroethane	ug/kg	2500	2550	102	70-133	
1,1-Dichloroethene	ug/kg	2500	2500	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2860	114	70-138	
cis-1,2-Dichloroethene	ug/kg	2500	2400	96	70-130	
Tetrachloroethene	ug/kg	2500	2240	90	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2300	92	70-130	
Trichloroethene	ug/kg	2500	2410	97	70-130	
Vinyl chloride	ug/kg	2500	2700	108	57-130	
4-Bromofluorobenzene (S)	%			93	48-138	
Dibromofluoromethane (S)	%			101	53-165	
Toluene-d8 (S)	%			98	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479978 1479979

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40146960012 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/kg	<25.0	1460	1460	1550	1420	106	97	70-130	8	20
1,1,2-Trichloroethane	ug/kg	<25.0	1460	1460	1480	1680	102	115	70-130	13	20
1,1-Dichloroethane	ug/kg	<25.0	1460	1460	1680	1530	115	104	64-133	10	20

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479978		1479979		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40146960012 Result	MS Spike Conc.	MSD Spike Conc.								
1,1-Dichloroethene	ug/kg	<25.0	1460	1460	1490	1330	102	91	56-130	11	24	
1,2-Dichloroethane	ug/kg	<25.0	1460	1460	1760	1850	120	127	70-138	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1460	1460	1590	1510	107	102	70-130	5	20	
Tetrachloroethene	ug/kg	1670	1460	1460	3100	3160	98	102	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1460	1460	1450	1340	99	91	70-130	8	20	
Trichloroethene	ug/kg	78.5	1460	1460	1540	1510	100	98	70-130	2	20	
Vinyl chloride	ug/kg	<25.0	1460	1460	1250	1130	86	77	26-130	10	20	
4-Bromofluorobenzene (S)	%						103	106	48-138			
Dibromofluoromethane (S)	%						121	114	53-165			
Toluene-d8 (S)	%						110	114	54-163			

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250536	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40146960009, 40146960010, 40146960011, 40146960012	

SAMPLE DUPLICATE: 1479177

Parameter	Units	40146961001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	17.3	5	10	

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch:	250538	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40146960001, 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008		

SAMPLE DUPLICATE: 1479179

Parameter	Units	40146961006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.9	5	10	

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QUALIFIERS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40146960001	GP-20 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960002	GP-20 5-7	EPA 5035/5030B	250720	EPA 8260	250723
40146960003	GP-21 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960004	GP-21 10-12	EPA 5035/5030B	250720	EPA 8260	250723
40146960005	GP-22 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960006	GP-22 8-10	EPA 5035/5030B	250720	EPA 8260	250723
40146960007	GP-23 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960008	GP-23 8-10	EPA 5035/5030B	250720	EPA 8260	250723
40146960009	GP-24 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960010	GP-24 8-10	EPA 5035/5030B	250782	EPA 8260	250783
40146960011	MW-5 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960012	MW-5 10-12	EPA 5035/5030B	250782	EPA 8260	250783
40146960001	GP-20 1-3	ASTM D2974-87	250538		
40146960002	GP-20 5-7	ASTM D2974-87	250538		
40146960003	GP-21 1-3	ASTM D2974-87	250538		
40146960004	GP-21 10-12	ASTM D2974-87	250538		
40146960005	GP-22 1-3	ASTM D2974-87	250538		
40146960006	GP-22 8-10	ASTM D2974-87	250538		
40146960007	GP-23 1-3	ASTM D2974-87	250538		
40146960008	GP-23 8-10	ASTM D2974-87	250538		
40146960009	GP-24 1-3	ASTM D2974-87	250536		
40146960010	GP-24 8-10	ASTM D2974-87	250536		
40146960011	MW-5 1-3	ASTM D2974-87	250536		
40146960012	MW-5 10-12	ASTM D2974-87	250536		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO#: 40146960

Client Name: KPRG

Courier: Fed Ex UPS Client Pace Other: CS LOGISTICS



Tracking #:
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: RDI /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 3-18-17
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, and Trip Blank Present.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: [Signature] Date: 3/18/17

April 17, 2017

Patrick Allenstein
KPRG and Associates, Inc.
14665 W. Lisbon Road
Brookfield, WI 53005

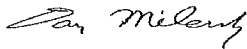
RE: Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Dear Patrick Allenstein:

Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2017. 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.

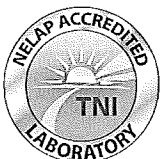
If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414	Minnesota Certification #: 027-053-137
A2LA Certification #: 2926.01	Mississippi Certification #: MN00064
Alabama Certification #: 40770	Montana Certification #: CERT0092
Alaska Contaminated Sites Certification #: UST-078	Nebraska Certification #: NE-OS-18-06
Alaska DW Certification #: MN00064	Nevada Certification #: MN00064
Arizona Certification #: AZ0014	New Hampshire Certification #: 2081
Arkansas Certification #: 88-0680	New Jersey Certification #: MN002
California Certification #: MN00064	New York Certification #: 11647
CNMI Saipan Certification #: MP0003	North Carolina DW Certification #: 27700
Colorado Certification #: MN00064	North Carolina WW Certification #: 530
Connecticut Certification #: PH-0256	North Dakota Certification #: R-036
EPA Region 8 Certification #: 8TMS-L	Ohio DW Certification #: 41244
Florida Certification #: E87605	Ohio VAP Certification #: CL101
Georgia Certification #: 959	Oklahoma Certification #: 9507
Guam EPA Certification #: MN00064	Oregon NwTPH Certification #: MN300001
Hawaii Certification #: MN00064	Oregon Secondary Certification #: MN200001
Idaho Certification #: MN00064	Pennsylvania Certification #: 68-00563
Illinois Certification #: 200011	Puerto Rico Certification #: MN00064
Indiana Certification #: C-MN-01	South Carolina Certification #: 74003001
Iowa Certification #: 368	Tennessee Certification #: TN02818
Kansas Certification #: E-10167	Texas Certification #: T104704192
Kentucky DW Certification #: 90062	Utah Certification #: MN00064
Kentucky WW Certification #: 90062	Virginia Certification #: 460163
Louisiana DEQ Certification #: 03086	Washington Certification #: C486
Louisiana DW Certification #: MN00064	West Virginia DW Certification #: 9952 C
Maine Certification #: MN00064	West Virginia WW Certification #: 382
Maryland Certification #: 322	Wisconsin Certification #: 999407970
Michigan Certification #: 9909	Wyoming via EPA Region 8 Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147644001	SV-1	Air	03/31/17 14:58	04/03/17 12:15
40147644002	SV-2	Air	03/31/17 14:52	04/03/17 12:15
40147644003	SV-3	Air	03/31/17 15:08	04/03/17 12:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147644001	SV-1	TO-15	MJL	10	PASI-M
40147644002	SV-2	TO-15	MJL	10	PASI-M
40147644003	SV-3	TO-15	MJL	10	PASI-M

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40147644001	SV-1					
TO-15	cis-1,2-Dichloroethene	0.66J	ug/m3	1.2	04/16/17 21:30	
TO-15	Tetrachloroethene	2.5	ug/m3	0.99	04/16/17 21:30	
TO-15	Trichloroethene	0.49J	ug/m3	0.79	04/16/17 21:30	
40147644002	SV-2					
TO-15	Tetrachloroethene	0.68J	ug/m3	1.1	04/16/17 21:58	
40147644003	SV-3					
TO-15	cis-1,2-Dichloroethene	8.7	ug/m3	1.3	04/16/17 22:26	
TO-15	trans-1,2-Dichloroethene	7.8	ug/m3	1.3	04/16/17 22:26	
TO-15	Tetrachloroethene	175	ug/m3	1.1	04/16/17 22:26	
TO-15	1,1,1-Trichloroethane	0.63J	ug/m3	1.7	04/16/17 22:26	
TO-15	Trichloroethene	32.0	ug/m3	0.85	04/16/17 22:26	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-1 Lab ID: 40147644001 Collected: 03/31/17 14:58 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,1-Dichloroethane	<0.23	ug/m3	1.2	0.23	1.44		04/16/17 21:30	75-34-3	
1,2-Dichloroethane	<0.30	ug/m3	0.59	0.30	1.44		04/16/17 21:30	107-06-2	
1,1-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.44		04/16/17 21:30	75-35-4	
cis-1,2-Dichloroethene	0.66J	ug/m3	1.2	0.35	1.44		04/16/17 21:30	156-59-2	
trans-1,2-Dichloroethene	<0.55	ug/m3	1.2	0.55	1.44		04/16/17 21:30	156-60-5	
Tetrachloroethene	2.5	ug/m3	0.99	0.40	1.44		04/16/17 21:30	127-18-4	
1,1,1-Trichloroethane	<0.36	ug/m3	1.6	0.36	1.44		04/16/17 21:30	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.79	0.35	1.44		04/16/17 21:30	79-00-5	
Trichloroethene	0.49J	ug/m3	0.79	0.40	1.44		04/16/17 21:30	79-01-6	
Vinyl chloride	<0.28	ug/m3	0.37	0.28	1.44		04/16/17 21:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-2 Lab ID: 40147644002 Collected: 03/31/17 14:52 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethane	<0.24	ug/m3	1.3	0.24	1.55		04/16/17 21:58	75-34-3	
1,2-Dichloroethane	<0.32	ug/m3	0.64	0.32	1.55		04/16/17 21:58	107-06-2	
1,1-Dichloroethene	<0.37	ug/m3	1.3	0.37	1.55		04/16/17 21:58	75-35-4	
cis-1,2-Dichloroethene	<0.38	ug/m3	1.3	0.38	1.55		04/16/17 21:58	156-59-2	
trans-1,2-Dichloroethene	<0.60	ug/m3	1.3	0.60	1.55		04/16/17 21:58	156-60-5	
Tetrachloroethene	0.68J	ug/m3	1.1	0.43	1.55		04/16/17 21:58	127-18-4	
1,1,1-Trichloroethane	<0.38	ug/m3	1.7	0.38	1.55		04/16/17 21:58	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.85	0.38	1.55		04/16/17 21:58	79-00-5	
Trichloroethene	<0.43	ug/m3	0.85	0.43	1.55		04/16/17 21:58	79-01-6	
Vinyl chloride	<0.30	ug/m3	0.40	0.30	1.55		04/16/17 21:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-3 Lab ID: 40147644003 Collected: 03/31/17 15:08 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
1,1-Dichloroethane	<0.24	ug/m3	1.3	0.24	1.55		04/16/17 22:26	75-34-3	
1,2-Dichloroethane	<0.32	ug/m3	0.64	0.32	1.55		04/16/17 22:26	107-06-2	
1,1-Dichloroethene	<0.37	ug/m3	1.3	0.37	1.55		04/16/17 22:26	75-35-4	
cis-1,2-Dichloroethene	8.7	ug/m3	1.3	0.38	1.55		04/16/17 22:26	156-59-2	
trans-1,2-Dichloroethene	7.8	ug/m3	1.3	0.60	1.55		04/16/17 22:26	156-60-5	
Tetrachloroethene	175	ug/m3	1.1	0.43	1.55		04/16/17 22:26	127-18-4	
1,1,1-Trichloroethane	0.63J	ug/m3	1.7	0.38	1.55		04/16/17 22:26	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.85	0.38	1.55		04/16/17 22:26	79-00-5	
Trichloroethene	32.0	ug/m3	0.85	0.43	1.55		04/16/17 22:26	79-01-6	
Vinyl chloride	<0.30	ug/m3	0.40	0.30	1.55		04/16/17 22:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

QC Batch: 468777 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 40147644001, 40147644002, 40147644003

METHOD BLANK: 2560516 Matrix: Air
Associated Lab Samples: 40147644001, 40147644002, 40147644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	04/16/17 09:25	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	04/16/17 09:25	MN
1,1-Dichloroethane	ug/m3	<0.16	0.82	04/16/17 09:25	
1,1-Dichloroethene	ug/m3	<0.24	0.81	04/16/17 09:25	
1,2-Dichloroethane	ug/m3	<0.20	0.41	04/16/17 09:25	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	04/16/17 09:25	
Tetrachloroethene	ug/m3	<0.28	0.69	04/16/17 09:25	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	04/16/17 09:25	
Trichloroethene	ug/m3	<0.28	0.55	04/16/17 09:25	
Vinyl chloride	ug/m3	<0.20	0.26	04/16/17 09:25	

LABORATORY CONTROL SAMPLE: 2560517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	53.5	97	70-134	
1,1,2-Trichloroethane	ug/m3	55.5	56.2	101	70-130	
1,1-Dichloroethane	ug/m3	41.1	43.5	106	70-130	
1,1-Dichloroethene	ug/m3	40.3	41.3	102	70-130	
1,2-Dichloroethane	ug/m3	41.1	41.1	100	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	42.3	105	70-133	
Tetrachloroethene	ug/m3	68.9	67.9	98	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.3	102	70-131	
Trichloroethene	ug/m3	54.6	59.1	108	70-130	
Vinyl chloride	ug/m3	26	28.2	109	70-130	

SAMPLE DUPLICATE: 2560903

Parameter	Units	10384709002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.33			25
1,1,2-Trichloroethane	ug/m3	ND	<0.33			25
1,1-Dichloroethane	ug/m3	ND	<0.21			25
1,1-Dichloroethene	ug/m3	ND	<0.32			25
1,2-Dichloroethane	ug/m3	ND	<0.27			25
cis-1,2-Dichloroethene	ug/m3	ND	<0.33			25
Tetrachloroethene	ug/m3	136	138	1		25
trans-1,2-Dichloroethene	ug/m3	ND	<0.51			25
Trichloroethene	ug/m3	ND	<0.37			25
Vinyl chloride	ug/m3	ND	<0.26			25

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

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 LOD.
J - Estimated concentration at or above the LOD and below the LOQ.
LOD - Limit of Detection adjusted for dilution factor and percent moisture.
LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.
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 at or above the adjusted LOD.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147644001	SV-1	TO-15	468777		
40147644002	SV-2	TO-15	468777		
40147644003	SV-3	TO-15	468777		

REPORT OF LABORATORY ANALYSIS

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May 31, 2017

Patrick Allenstein
KPRG and Associates, Inc.
14665 W. Lisbon Road
Brookfield, WI 53005

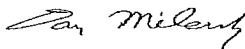
RE: Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Dear Patrick Allenstein:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2017. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150308001	MW-1	Water	05/17/17 14:26	05/19/17 13:27
40150308002	MW-2	Water	05/18/17 14:33	05/19/17 13:27
40150308003	MW-2D	Water	05/18/17 13:42	05/19/17 13:27
40150308004	MW-3	Water	05/18/17 10:40	05/19/17 13:27
40150308005	MW-3D	Water	05/18/17 09:45	05/19/17 13:27
40150308006	MW-4	Water	05/17/17 15:54	05/19/17 13:27
40150308007	MW-5	Water	05/18/17 11:40	05/19/17 13:27
40150308008	GP-11	Water	05/17/17 11:15	05/19/17 13:27
40150308009	GP-12	Water	05/17/17 11:45	05/19/17 13:27
40150308010	GP-13	Water	05/17/17 12:05	05/19/17 13:27
40150308011	GP-16	Water	05/17/17 13:10	05/19/17 13:27
40150308012	GP-17	Water	05/17/17 13:30	05/19/17 13:27
40150308013	DUP	Water	05/18/17 00:00	05/19/17 13:27
40150308014	FIELD BLANK	Water	05/18/17 00:00	05/19/17 13:27

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40150308001	MW-1	EPA 8260	HNW	13	PASI-G
40150308002	MW-2	EPA 8260	HNW	13	PASI-G
40150308003	MW-2D	EPA 8260	HNW	13	PASI-G
40150308004	MW-3	EPA 8260	HNW	13	PASI-G
40150308005	MW-3D	EPA 8260	HNW	13	PASI-G
40150308006	MW-4	EPA 8260	HNW	13	PASI-G
40150308007	MW-5	EPA 8260	HNW	13	PASI-G
40150308008	GP-11	EPA 8260	HNW	13	PASI-G
40150308009	GP-12	EPA 8260	HNW	13	PASI-G
40150308010	GP-13	EPA 8260	HNW	13	PASI-G
40150308011	GP-16	EPA 8260	HNW	13	PASI-G
40150308012	GP-17	EPA 8260	HNW	13	PASI-G
40150308013	DUP	EPA 8260	LAP	13	PASI-G
40150308014	FIELD BLANK	EPA 8260	LAP	13	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit	Analyzed
40150308002	MW-2				
EPA 8260	1,1,1-Trichloroethane	7.1	ug/L	4.0	05/27/17 01:08
EPA 8260	1,1-Dichloroethane	3.5J	ug/L	4.0	05/27/17 01:08
EPA 8260	1,1-Dichloroethene	1.8J	ug/L	4.0	05/27/17 01:08
EPA 8260	1,2-Dichloroethane	1.6J	ug/L	4.0	05/27/17 01:08
EPA 8260	Tetrachloroethene	1080	ug/L	4.0	05/27/17 01:08
EPA 8260	Trichloroethene	179	ug/L	4.0	05/27/17 01:08
EPA 8260	Vinyl chloride	13.4	ug/L	4.0	05/27/17 01:08
EPA 8260	cis-1,2-Dichloroethene	311	ug/L	4.0	05/27/17 01:08
EPA 8260	trans-1,2-Dichloroethene	80.3	ug/L	4.0	05/27/17 01:08
40150308003	MW-2D				
EPA 8260	Tetrachloroethene	0.61J	ug/L	1.0	05/26/17 20:05
40150308004	MW-3				
EPA 8260	cis-1,2-Dichloroethene	2.0	ug/L	1.0	05/26/17 20:27
EPA 8260	trans-1,2-Dichloroethene	0.42J	ug/L	1.0	05/26/17 20:27
40150308011	GP-16				
EPA 8260	cis-1,2-Dichloroethene	0.54J	ug/L	1.0	05/26/17 22:58

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-1 Lab ID: 40150308001 Collected: 05/17/17 14:26 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 19:43	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 19:43	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 19:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 19:43	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 19:43	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 19:43	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 19:43	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 19:43	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 19:43	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 19:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 19:43	460-00-4	
Dibromofluoromethane (S)	105	%	67-124		1		05/26/17 19:43	1868-53-7	
Toluene-d8 (S)	97	%	80-120		1		05/26/17 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-2 Lab ID: 40150308002 Collected: 05/18/17 14:33 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	7.1	ug/L	4.0	2.0	4		05/27/17 01:08	71-55-6	
1,1,2-Trichloroethane	<0.79	ug/L	4.0	0.79	4		05/27/17 01:08	79-00-5	
1,1-Dichloroethane	3.5J	ug/L	4.0	0.97	4		05/27/17 01:08	75-34-3	
1,1-Dichloroethene	1.8J	ug/L	4.0	1.6	4		05/27/17 01:08	75-35-4	
1,2-Dichloroethane	1.6J	ug/L	4.0	0.67	4		05/27/17 01:08	107-06-2	
Tetrachloroethene	1080	ug/L	4.0	2.0	4		05/27/17 01:08	127-18-4	
Trichloroethene	179	ug/L	4.0	1.3	4		05/27/17 01:08	79-01-6	
Vinyl chloride	13.4	ug/L	4.0	0.70	4		05/27/17 01:08	75-01-4	
cis-1,2-Dichloroethene	311	ug/L	4.0	1.0	4		05/27/17 01:08	156-59-2	
trans-1,2-Dichloroethene	80.3	ug/L	4.0	1.0	4		05/27/17 01:08	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-118		4		05/27/17 01:08	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		4		05/27/17 01:08	1868-53-7	
Toluene-d8 (S)	98	%	80-120		4		05/27/17 01:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-2D Lab ID: 40150308003 Collected: 05/18/17 13:42 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 20:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 20:05	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 20:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 20:05	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 20:05	107-06-2	
Tetrachloroethene	0.61J	ug/L	1.0	0.50	1		05/26/17 20:05	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 20:05	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 20:05	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 20:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 20:05	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 20:05	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		1		05/26/17 20:05	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-3 Lab ID: 40150308004 Collected: 05/18/17 10:40 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 20:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 20:27	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 20:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 20:27	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 20:27	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 20:27	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 20:27	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 20:27	75-01-4	
cis-1,2-Dichloroethene	2.0	ug/L	1.0	0.26	1		05/26/17 20:27	156-59-2	
trans-1,2-Dichloroethene	0.42J	ug/L	1.0	0.26	1		05/26/17 20:27	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 20:27	460-00-4	
Dibromofluoromethane (S)	105	%	67-124		1		05/26/17 20:27	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 20:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-3D Lab ID: 40150308005 Collected: 05/18/17 09:45 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 20:48	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 20:48	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 20:48	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 20:48	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 20:48	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 20:48	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 20:48	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 20:48	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 20:48	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 20:48	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 20:48	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 20:48	1868-53-7	
Toluene-d8 (S)	98	%	80-120		1		05/26/17 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-4 Lab ID: 40150308006 Collected: 05/17/17 15:54 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 21:10	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 21:10	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 21:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 21:10	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 21:10	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 21:10	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 21:10	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 21:10	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:10	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-118		1		05/26/17 21:10	460-00-4	
Dibromofluoromethane (S)	103	%	67-124		1		05/26/17 21:10	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 21:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-5 Lab ID: 40150308007 Collected: 05/18/17 11:40 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 21:31	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 21:31	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 21:31	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 21:31	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 21:31	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 21:31	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 21:31	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 21:31	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:31	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:31	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-118		1		05/26/17 21:31	460-00-4	
Dibromofluoromethane (S)	103	%	67-124		1		05/26/17 21:31	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-11 Lab ID: 40150308008 Collected: 05/17/17 11:15 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 21:53	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 21:53	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 21:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 21:53	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 21:53	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 21:53	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 21:53	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 21:53	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:53	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 21:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 21:53	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 21:53	1868-53-7	
Toluene-d8 (S)	98	%	80-120		1		05/26/17 21:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-12 Lab ID: 40150308009 Collected: 05/17/17 11:45 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 22:15	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 22:15	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 22:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 22:15	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 22:15	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 22:15	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 22:15	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 22:15	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 22:15	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 22:15	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-118		1		05/26/17 22:15	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 22:15	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 22:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
 Pace Project No.: 40150308

Sample: GP-13 Lab ID: 40150308010 Collected: 05/17/17 12:05 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 22:36	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 22:36	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 22:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 22:36	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 22:36	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 22:36	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 22:36	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 22:36	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 22:36	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 22:36	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 22:36	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 22:36	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 22:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
 Pace Project No.: 40150308

Sample: GP-16 Lab ID: 40150308011 Collected: 05/17/17 13:10 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 22:58	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 22:58	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 22:58	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 22:58	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 22:58	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 22:58	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 22:58	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 22:58	75-01-4	
cis-1,2-Dichloroethene	0.54J	ug/L	1.0	0.26	1		05/26/17 22:58	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 22:58	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 22:58	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 22:58	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 22:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-17 Lab ID: 40150308012 Collected: 05/17/17 13:30 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/26/17 23:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/26/17 23:20	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/26/17 23:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/26/17 23:20	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/26/17 23:20	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/26/17 23:20	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/26/17 23:20	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/26/17 23:20	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 23:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/26/17 23:20	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 23:20	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 23:20	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 23:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: DUP Lab ID: 40150308013 Collected: 05/18/17 00:00 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/17 09:22	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/17 09:22	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/17 09:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/17 09:22	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/17 09:22	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/17 09:22	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/17 09:22	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/17 09:22	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 09:22	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 09:22	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-118		1		05/30/17 09:22	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/30/17 09:22	1868-53-7	
Toluene-d8 (S)	96	%	80-120		1		05/30/17 09:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: FIELD BLANK Lab ID: 40150308014 Collected: 05/18/17 00:00 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/17 09:45	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/17 09:45	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/17 09:45	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/17 09:45	75-35-4	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/17 09:45	107-06-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/17 09:45	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/17 09:45	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/17 09:45	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 09:45	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/17 09:45	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-118		1		05/30/17 09:45	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		1		05/30/17 09:45	1868-53-7	
Toluene-d8 (S)	93	%	80-120		1		05/30/17 09:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

QC Batch: 256302 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40150308001, 40150308002, 40150308003, 40150308004, 40150308005, 40150308006, 40150308007, 40150308008, 40150308009, 40150308010, 40150308011, 40150308012

METHOD BLANK: 1511135 Matrix: Water
Associated Lab Samples: 40150308001, 40150308002, 40150308003, 40150308004, 40150308005, 40150308006, 40150308007, 40150308008, 40150308009, 40150308010, 40150308011, 40150308012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/26/17 15:02	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/26/17 15:02	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/26/17 15:02	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/26/17 15:02	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/26/17 15:02	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/26/17 15:02	
Tetrachloroethene	ug/L	<0.50	1.0	05/26/17 15:02	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/26/17 15:02	
Trichloroethene	ug/L	<0.33	1.0	05/26/17 15:02	
Vinyl chloride	ug/L	<0.18	1.0	05/26/17 15:02	
4-Bromofluorobenzene (S)	%	96	61-118	05/26/17 15:02	
Dibromofluoromethane (S)	%	101	67-124	05/26/17 15:02	
Toluene-d8 (S)	%	101	80-120	05/26/17 15:02	

LABORATORY CONTROL SAMPLE: 1511136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	85-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	80-120	
1,1-Dichloroethane	ug/L	50	54.4	109	71-132	
1,1-Dichloroethene	ug/L	50	53.6	107	75-130	
1,2-Dichloroethane	ug/L	50	52.6	105	79-131	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	83-129	
Tetrachloroethene	ug/L	50	42.3	85	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	75-132	
Trichloroethene	ug/L	50	47.7	95	80-120	
Vinyl chloride	ug/L	50	58.9	118	57-136	
4-Bromofluorobenzene (S)	%			106	61-118	
Dibromofluoromethane (S)	%			98	67-124	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1511596 1511597

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result					
1,1,1-Trichloroethane	ug/L	<0.00050 mg/L	50	50	44.8	39.8	90	80	85-134	12 20 M1

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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1511596		1511597		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40150234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result									
1,1,2-Trichloroethane	ug/L	<0.00020 mg/L	50	50	46.3	42.2	93	84	80-120	9	20			
1,1-Dichloroethane	ug/L	<0.00024 mg/L	50	50	44.3	40.6	89	81	71-133	9	20			
1,1-Dichloroethene	ug/L	<0.00041 mg/L	50	50	47.4	39.3	95	79	75-136	19	20			
1,2-Dichloroethane	ug/L	<0.00017 mg/L	50	50	48.7	45.1	97	90	79-131	8	20			
cis-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	45.1	39.8	90	80	83-129	12	20	M1		
Tetrachloroethene	ug/L	<0.00050 mg/L	50	50	36.5	33.4	73	67	80-120	9	20	M1		
trans-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	45.1	38.8	90	78	75-135	15	20			
Trichloroethene	ug/L	<0.00033 mg/L	50	50	42.5	39.3	85	79	80-120	8	20	M1		
Vinyl chloride	ug/L	<0.00018 mg/L	50	50	41.1	37.1	82	74	56-143	10	20			
4-Bromofluorobenzene (S)	%							102	100	61-118				
Dibromofluoromethane (S)	%							104	103	67-124				
Toluene-d8 (S)	%							99	98	80-120				

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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

QC Batch: 256768 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40150308013, 40150308014

METHOD BLANK: 1513263 Matrix: Water
Associated Lab Samples: 40150308013, 40150308014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/30/17 06:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/30/17 06:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/30/17 06:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/30/17 06:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/30/17 06:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:32	
Tetrachloroethene	ug/L	<0.50	1.0	05/30/17 06:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:32	
Trichloroethene	ug/L	<0.33	1.0	05/30/17 06:32	
Vinyl chloride	ug/L	<0.18	1.0	05/30/17 06:32	
4-Bromofluorobenzene (S)	%	84	61-118	05/30/17 06:32	
Dibromofluoromethane (S)	%	103	67-124	05/30/17 06:32	
Toluene-d8 (S)	%	92	80-120	05/30/17 06:32	

LABORATORY CONTROL SAMPLE: 1513264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	85-130	
1,1,2-Trichloroethane	ug/L	50	48.4	97	80-120	
1,1-Dichloroethane	ug/L	50	50.9	102	71-132	
1,1-Dichloroethene	ug/L	50	59.6	119	75-130	
1,2-Dichloroethane	ug/L	50	49.3	99	79-131	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	83-129	
Tetrachloroethene	ug/L	50	52.1	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-132	
Trichloroethene	ug/L	50	56.0	112	80-120	
Vinyl chloride	ug/L	50	51.5	103	57-136	
4-Bromofluorobenzene (S)	%			100	61-118	
Dibromofluoromethane (S)	%			97	67-124	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514092 1514093

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40150525023 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.9	50.4	108	101	85-134	7	20
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.7	46.3	103	93	80-120	11	20
1,1-Dichloroethane	ug/L	<0.24	50	50	54.1	52.3	108	105	71-133	3	20

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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Parameter	Units	1514092		1514093		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40150525023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1-Dichloroethene	ug/L	<0.41	50	50	63.9	58.7	128	117	75-136	8	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	52.1	48.7	104	97	79-131	7	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	54.4	48.4	109	97	83-129	12	20		
Tetrachloroethene	ug/L	<0.50	50	50	53.9	52.5	108	105	80-120	3	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	53.6	51.9	107	104	75-135	3	20		
Trichloroethene	ug/L	<0.33	50	50	56.5	57.0	113	114	80-120	1	20		
Vinyl chloride	ug/L	<0.18	50	50	60.4	51.7	121	103	56-143	16	20		
4-Bromofluorobenzene (S)	%						104	95	61-118				
Dibromofluoromethane (S)	%						100	93	67-124				
Toluene-d8 (S)	%						100	103	80-120				

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QUALIFIERS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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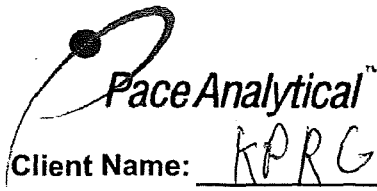
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150308001	MW-1	EPA 8260	256302		
40150308002	MW-2	EPA 8260	256302		
40150308003	MW-2D	EPA 8260	256302		
40150308004	MW-3	EPA 8260	256302		
40150308005	MW-3D	EPA 8260	256302		
40150308006	MW-4	EPA 8260	256302		
40150308007	MW-5	EPA 8260	256302		
40150308008	GP-11	EPA 8260	256302		
40150308009	GP-12	EPA 8260	256302		
40150308010	GP-13	EPA 8260	256302		
40150308011	GP-16	EPA 8260	256302		
40150308012	GP-17	EPA 8260	256302		
40150308013	DUP	EPA 8260	256768		
40150308014	FIELD BLANK	EPA 8260	256768		

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: KPRG & Associates

Project #: **WO# : 40150308**



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: No I /Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 5/19/17
Initials: SSA

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	<u>010 - ID on samples is "GP-13/W"</u> <u>029 - ID on samples is "GP-12/W"</u> <u>028 - ID on samples is "GP-8/W"</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <input checked="" type="checkbox"/> VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>379</u>	

SSA 5/19/17
NO collect time

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 010 - ID on samples is "GP-17/W" SSA 5/19/17
029 - ID on samples is "GP-16/W"

Project Manager Review: R. New for PM Date: 5/19/17