Stantec Consulting Services Inc.
12075 Corporate Parkway, Suite 200, Mequon WI 53092

September 20, 2018

Attention: Jeff Ackerman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397

Reference: Additional Investigation for Care'n Cleaners, 735 West Main Street, Waupun, Wisconsin; WDNR BRRTS #02-14-552053

Dear Mr. Ackerman:

Stantec Consulting Services Inc. (Stantec) continues to investigate a tetrachloroethene (PCE) release at the above-referenced property (the Site, the Property), which is presently occupied by an active dry-cleaning business. In a September 30, 2016 letter, you requested additional investigation at the Site (Ackerman, 2016). During October 2016, Cal Lemmenes and I met with you to discuss a scope of work to further evaluate the extent of soil contamination east of borehole B4 and groundwater contamination to the east-northeast of the Site. Stantec then developed a workplan to complete the additional investigation (Stantec, 2017). In an October 19, 2017 letter, the WDNR approved the workplan and stated that the investigation is eligible for reimbursement under the Drycleaner Environmental Response Fund (DERF) (Ackerman, 2017). This letter summarizes the results of additional investigation activities outlined in the workplan.

METHODS OF INVESTIGATION

The additional investigation included soil sample collection, groundwater monitoring well installation, and collection of groundwater samples from monitoring wells. Details of this work are provided below. The Site layout is illustrated on Figure 1.

Soil

On June 22, 2018, Stantec collected soil samples from three boreholes (B27, B28, and B29) advanced by Geiss Soil & Samples (Geiss) using direct-push soil sampling equipment at the locations shown on Figure 1. These soil borings were advanced on the east-adjoining property to further evaluate the extent of PCE in soil east of the Site. Each borehole was located within approximately 15 feet of borehole B4, where elevated PCE concentrations were detected in sub-surface soil during July 2008. Each boring was advanced until refusal was encountered, present between five and eight feet below grade (fbg) (believed to be the bedrock surface).

Stantec personnel placed a portion of each sample into re-sealable plastic bags and field screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with an 11.7 electron volt (eV) lamp. Stratigraphic borehole logs were prepared in general conformance with the American Society for Testing and Materials (ASTM) Method D-2488. Geologic logs for the soil boreholes are presented in Attachment A. All soil sampling equipment was washed with a detergent solution and double rinsed with potable water before collecting each soil sample to prevent sample cross-contamination. Select soil samples were immediately containerized in laboratory provided containers, sealed, and placed in a cooler with ice for shipment under chain-of-custody record to TestAmerica Laboratories, Inc. (TestAmerica) for VOC analysis.

Groundwater

On June 22, 2018, Badger State Drilling, Inc. (BSD) installed groundwater monitoring well MW10 near the northeast corner of the adjoining property east of the Site to further investigate the downgradient extent of PCE in groundwater and provide additional groundwater flow data. The location of MW10 is shown on Figure 1. The well was constructed using hollow-stem auger (unconsolidated soil) and air-rotary (bedrock) drilling methods, in accordance with state requirements (Chapter NR 141 Wisconsin Administrative Code).

BSD constructed the well to a total depth of approximately 30 fbg, using 2-inch diameter polyvinyl chloride threaded casing and 10 feet of 0.010-inch slotted screen from 18 to 28 fbg. No glues, solvents, or lubricants were used in well construction. Stantec surveyed the horizontal and vertical locations of the well and developed the well. The WDNR monitoring well construction form is included in Attachment A.

Stantec collected groundwater samples from existing groundwater monitoring wells MW1 through MW8 and new monitoring well MW10 on June 27, 2018. Prior to sampling, Stantec personnel measured water levels in all monitoring wells to evaluate groundwater flow conditions. Wells with expandable caps were opened and allowed to equilibrate prior to taking measurements. Measurements were made using a Slope Indicator electronic water level sensor (accuracy 0.01 feet). Stantec personnel recorded the water level depth, as well as the total well depth, in a bound field notebook. After measuring groundwater elevations, Stantec personnel purged and sampled groundwater from each monitoring well using a new polyethylene bailer in a manner such that disturbance to the water column was reduced. The groundwater samples were transferred to laboratory provided containers, placed on ice, and submitted to TestAmerica for laboratory analysis. A duplicate sample was collected from MW4. TestAmerica analyzed all groundwater samples VOCs.

ADDITIONAL SITE INVESTIGATION RESULTS

Soil

No unusual odors were observed in soil samples collected from the three soil boring samples. Elevated PID readings (i.e. greater than 1 instrument unit as isobutylene [iui]) were recorded in each sample, ranging from 3.0 to 7.4 iui. The soils observed in the boreholes consisted of a mix of silty, sandy clay, and sand and gravel. Borehole logs are included in Attachment A.

VOCs were not present above laboratory detection limits in the soil sample collected from B27. PCE concentrations in soil samples collected from B28 and B29 exceeded the non-industrial residual contaminant level (RCL) value for protection of groundwater. Field screening and laboratory analytical results are summarized in Table 1 which also lists applicable WDNR RCLs for each compound detected. Soil sample laboratory analysis reports and associated chain-of-custody records are included in Attachment B. The extent of PCE in soil is presented in Figure 1.

Groundwater

Groundwater elevations measured in the monitoring wells are summarized in Table 2. The June 27, 2018 water table elevations and flow direction are illustrated in Figure 2. Water level data indicates that groundwater flows generally east across the Site with hydraulic gradient of approximately 0.01 feet per foot and is generally consistent with historic groundwater flow.

Except for MW8, PCE concentrations in groundwater from each well exceeded the Chapter NR140 Wisconsin Administrative Code (NR 140) enforcement standard (ES) of 5.0 micrograms per liter (ug/L). PCE concentrations ranged from 7.7 to 84 ug/L. The groundwater sample collected from MW8 contained a PCE concentration (2.2 ug/L) that exceeded the NR 140 preventative action limit (PAL) of 0.5 ug/L but was less than the ES.

Trichloroethene (TCE) was detected in MW1 (0.84 ug/L) exceeding the NR 140 PAL, but was less than the ES of 5.0 ug/L. Cis 1,2-dichloroethene (cis 1,2-DCE) was also detected in this well, but the concentration was less than the limit of quantitation (LOQ) and also less than the PAL. TCE and cis 1,2-DCE were also detected in MW7, but the concentrations were less than the LOQ and did not exceed their respective PAL. No other VOCs were present above laboratory detection limits the groundwater samples collected from the groundwater monitoring wells.

Groundwater flow direction and extent of PCE in groundwater above the ES is shown on Figure 2. Groundwater quality results are summarized in Table 3. Groundwater laboratory analytical reports and chain of custody records are included in Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

Analytical data from soil samples collected during the additional investigation defined the extent of PCE contamination in soil exceeding the WDNR RCLs. The contaminated area is centered beneath the Site building, extends onto the western portion of the east-adjoining property and may extend onto adjoining properties to the north and south.

The extent of VOCs in groundwater has been adequately defined with PCE being the only compound detected in groundwater exceeding a NR 140 ES. In general, PCE concentrations are highest near the dry-cleaning machine area on the Site and decrease radially in all directions. The highest reported concentration during this event was 84 ug/L in groundwater collected from MW4.

The extent of PCE released to soil and soil vapor is defined and no additional soil or soil vapor investigation is warranted. Stantec recommends additional groundwater monitoring to allow continued evaluation of groundwater flow and contaminant trends associated with the historic PCE release at the Site.

LIMITATIONS

Soil and groundwater sampling activities were performed in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies at the same time and in the same geographical area as the work conducted by Stantec. Stantec observed the degree of care and skill that are generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based on our professional judgment concerning the significance of the data gathered during the course of this investigation. Specifically, Stantec cannot represent that the Site does not contain any hazardous or toxic materials or other latent conditions beyond that observed by Stantec during the course of the investigation. Additionally, due to limitations of this investigation process and the necessary use of data furnished by others, Stantec and its subcontractors cannot assume liability if actual conditions differ from the information presented in this report.

Reference: Additional Investigation for Care'n Cleaners, 735 West Main Street, Waupun, Wisconsin; WDNR BRRTS #02-14-552053

Regards,

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c: Cal Lemmenes

REFERENCES

Ackerman, Jeff (WDNR) letter to Cal Lemmenes (Care'n Cleaners LLC), "Meeting Request and Review of Stantec's 'Additional Site Investigation Results' for the Care'n Cleaners Case at 735 West Main Street, Waupun, Wisconsin, DNR #02-14-552053" August 30, 2016.

Stantec Consulting Services Inc. letter to Jeff Ackerman (WDNR), "Workplan and Cost Estimate – Additional Investigation, Care'n Cleaners, 735 West Main Street, Waupun, Wisconsin; WDNR BRRTS #02-14-552053" August 2, 2017.

Ackerman, Jeff (WNDR) letter to Cal Lemmenes (Care'n Cleaners LLC), "Change Order Request for Care'n Cleaners, 735 West Main Street, Waupun, Wisconsin; DNR BRRTS Activity # 02-14-552053" October 19, 2017.

Wisconsin Department of Natural Resources, "Groundwater Monitoring Well Requirements," Wisconsin Administrative Code, Chapter NR 141, June 2015.

Wisconsin Department of Natural Resources, "Groundwater Quality," Wisconsin Administrative Code, Chapter NR 140, February 2017.

TABLES

Table 1: Soil Sample Field Screening and Laboratory Analytical Results, Care'n Cleaners, Waupun, WI

Borehole Number	Sample Number	Date Sampled	Sample Depth (fbg)	PID Response (iui)	Description	Detected VOCs (micrograms per kilogram)			
						Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Total Xylenes
WDNR RCL for Protection from Direct Contact Risk(non-industrial)						33,000	818,000	1,300	260,000
WDNR RCL for Protection of Groundwater*** (non-industrial)						4.5	1,107.2	3.6	3,960
B1	B1-8	07/11/08	8	0	Clayey silt	81	<23	<20	<48
B2	B2-8	07/11/08	8	0	Clayey silt	103	<23	<20	<48
B3	B3-8	07/11/08	8	0	Clayey silt	268	<23	<20	<48
B4	B4-11	07/11/08	11	0	Clayey silt	1480	26.3 J	<20	36 "J"
B5	S501	08/01/11	2-4	9	fine silty sand	30.8 "J"	<50	<17	<136
	S502	08/01/11	4-6	18	fine silty sand	142	<50	62	<136
	S503	08/01/11	6-8	3	fine silty sand	-	-	-	-
B6	S601	08/01/11	2-4	12	silty sand	49 "J"	<50	<17	<136
	S602	08/01/11	4-6	7	silty sand	-	-	-	-
	S603	08/01/11	6-8	1	silty sand	-	-	-	-
B7	S701	08/01/11	2-4	2	silty sand	<24	<50	<17	<136
	S702	08/01/11	4-6	1	silty sand	-	-	-	-
	S703	08/01/11	6-8	1	Silty clay	-	-	-	-
	S704	08/01/11	8-10	1	Silty clay	-	-	-	-
	S705	08/01/11	10-12	2	Silty clay	25 "J"	<50	22.2 "J"	<136
B8	S801	08/01/11	2-4	1	fine silty sand	<24	<50	<17	<136
	S802	08/01/11	4-6	2	fine silty sand	-	-	-	-
	S803	08/01/11	6-8	1	fine silty sand	-	-	-	-
	S803	08/01/11	8-10	2	fine silty sand	-	-	-	-
B9	S901	08/01/11	1.0-1.5	4	silty sand	620	<50	<17	<136
	S902	08/01/11	2.0-2.5	2	silty sand	-	-	-	-
B10 (inside basement)	S1001	08/01/11	7.0-7.5	2	silty sand	-	-	-	-
	S1002	08/01/11	7.5-8.0	4	silty sand	109	<50	<17	<136
B11	S1101	04/20/12	2-4	0	fine silty sand	<24	<50	<17	<136
	S1102	04/20/12	4-6	0	fine silty sand	-	-	-	-
	S1103	04/20/12	6-7	0	sandy clay, bedrock encountered at 7 feet	-	-	-	-
B12	S1201	04/20/12	2-4	0	fine silty sand	<24	<50	<17	<136
	S1202	04/20/12	4.5-6.5	0	fine silty sand	-	-	-	-
	S1203	04/20/12	7-9	0	fine silty sand	-	-	-	-
B13	S1301	06/01/12	0-2	4	topsoil	-	-	-	-
	S1302	06/01/12	2-4	7	silty clay	-	-	-	-
	S1303	06/01/12	4-6	10	fine silty sand	-	-	-	-
	S1304	06/01/12	6-8	12	silty clay	<24	<50	<17	<136
B14	S1401	06/01/12	0-2	0	3" concrete, then topsoil	-	-	-	
	S1402	06/01/12	2-4	0	Silty clay	<24	<50	<17	<136
	S1403	06/01/12	4-6	0	fine silty sand	-	-	-	
	S1404	06/01/12	4-7	0	fine silty sand	<24	<50	<17	<136
B15	S1501	06/01/12	0-2	0	6-inches topsoil then fine silty sand	-	-	-	
	S1502	06/01/12	2-4	0	silty clay	<24	<50	<17	<136
	S1503	06/01/12	4-6	0	fine silty sand	-	-	-	
	S1504	06/01/12	6-8	0	fine silty sand	<24	<50	<17	<136

Table 1: Soil Sample Field Screening and Laboratory Analytical Results, Care'n Cleaners, Waupun, WI

Borehole Number	Sample Number	Date Sampled	Sample Depth (fbg)	PID Response (iui)	Description	Detected VOCs (micrograms per kilogram)			
						Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)	Total Xylenes
B16	S1601	06/01/12	0-2	0	1 foot topsoil then fine silty sand	-	-	-	
	S1602	06/01/12	2-4	0	fine silty sand	<24	<50	<17	<136
	S1603	06/01/12	4-6	0	fine silty sand	-	-	-	
	S1604	06/01/12	6-8	0	fine silty sand	<24	<50	<17	<136
B17	-	08/04/14	Blind Drilled - no soil samples collected						
B18	S1801	08/04/14	1-3	0	fine silty sand	<49	-	<28	-
	S1802	08/04/14	3-5	0	fine silty sand	-	-	-	-
	S1803	08/04/14	5-7	0	fine silty sand	-	-	-	-
	S1804	08/04/14	7-7.5	0	fine silty sand, bedrock encountered at 7.5 feet	<49	-	<28	-
B19	-	08/04/14	Blind Drilled - no soil samples collected						
B20	-	05/20/16	Blind Drilled - no soil samples collected						
B21	S2101	05/20/16	0-2	3.1	sandy gravel	1100	<14	<16	<21
	S2102	05/20/16	2-4	1.5	silty clay with sand	170	<14	<16	<21
B22	S2201	05/20/16	0-2	18.1	topsoil	4100	<18	<20	<27
	S2202	05/20/16	2-4	8.1	silty clay with sand	1500	<15	<17	<23
B23	S2301	05/20/16	0-2	0.7	gravel and silty sand	570	<14	<16	<22
	S2302	05/20/16	2-4	0.3	silty clay with sand	570	<18	<20	<27
B24	S2401	05/20/16	0-2	0.3	1 foot topsoil underlain by silty clay	<39	<15	<17	<23
	S2402	05/20/16	2-4	0.3	silty sandy clay	<39	<15	<17	<23
B25	S2501	05/20/16	0-2	0.1	1 foot topsoil underlain by silty clay	<39	<16	<17	<23
	S2502	05/20/16	2-4	0.3	silty sandy clay	<39	<14	<16	<22
B26	S2601	05/20/16	0-2	0.3	1 foot topsoil underlain by silty clay	<39	<16	<17	<23
	S2602	05/20/16	2-4	0.7	silty sandy clay	<39	<16	<17	<23
B27	S27(6-8)	06/22/18	6-8	7.4	silty sandy clay	<23	<9.1	<10	<14
B28	S28(6-8)	06/22/18	6-8	4.8	Sand and Gravel	130	<9.0	<10	<13
B29	S29(4-6)	06/22/18	4-6	3.9	Sand and Gravel	140	<9.5	<11	<14
B30	-	06/22/18	Blind Drilled - no soil samples collected						

Note:

PID = photoionization detector
iui = instrument units as isobutylene
<x = Not detected above Laboratory Limit of Detection (LOD) of X.
- = Not Analyzed
J = analyte detected between the limit of detection and the limit of quantitation
fbg = feet below ground surface
*** = dilution factor of 2 used since site investigation is complete and extent of contamination has been defined
VOC = volatile organic compounds
XXX = concentrations exceeds WDNR proposed RCL for protection from direct contact risk (non-industrial)
XXX = exceeds WDNR proposed RCL for protection of groundwater (non-industrial)

Notes: All analyzed samples consist of soil unless otherwise noted.
WDNR soil RCL Summary table (June 2018) used to establish RCLs for groundwater protection and direct contact.

Table 2: Water Level Data, Care'n Cleaners, 735 W Main St., Waupun, WI

Well ID	Ground Surface Elevation (feet)	Reference Point Elevation (feet)	Date	Depth to Water (Feet Below Riser)	Water Table Elevation (feet)
MW1	97.77	97.28	08/09/11	22.83	74.45
			09/27/11	22.92	74.36
			04/20/12	21.21	76.07
			05/01/12	21.18	76.10
			08/28/12	24.45	72.83
			11/28/12	24.03	73.25
			08/07/14	22.50	74.78
			12/18/14	22.31	74.97
			06/03/16	21.63	75.65
			06/27/18	22.30	74.98
MW2	97.52	96.89	08/09/11	21.96	74.93
			09/27/11	22.30	74.59
			04/20/12	20.62	76.27
			05/01/12	20.57	76.32
			08/28/12	23.86	73.03
			11/28/12	23.41	73.48
			08/07/14	21.87	75.02
			12/18/14	21.69	75.20
			06/03/16	21.03	75.86
			06/27/18	21.89	75.00
MW3	97.48	97.02	08/09/11	22.23	74.79
			09/27/11	22.66	74.36
			04/20/12	20.94	76.08
			05/01/12	20.92	76.10
			08/28/12	24.22	72.80
			11/28/12	23.78	73.24
			08/07/14	22.20	74.82
			12/18/14	22.04	74.98
			06/03/16	21.38	75.64
			06/27/18	22.25	74.77
MW4	98.13	97.57	08/09/11	22.87	74.70
			09/27/11	23.14	74.43
			04/20/12	21.39	76.18
			05/01/12	21.33	76.24
			08/28/12	24.71	72.86
			11/28/12	24.27	73.30
			08/07/14	22.71	74.86
			12/18/14	22.30	75.27
			06/03/16	21.83	75.74
			06/27/18	22.78	74.79
MW5	98.19	97.56	04/20/12	-	-
			05/01/12	21.34	76.22
			08/28/12	24.77	72.79
			11/28/12	24.32	73.24
			08/07/14	22.75	74.81
			12/18/14	22.55	75.01
			06/03/16	21.81	75.75
			06/27/18	22.84	74.72
MW6	97.58	97.10	04/20/12	-	-
			05/01/12	20.98	76.12
			08/28/12	24.12	72.98
			11/28/12	23.71	73.39
			08/07/14	22.83	74.27
			12/18/14	22.00	75.10
			06/03/16	21.41	75.69
			06/27/18	22.21	74.89
MW7	97.45	96.79	08/07/14	22.83	73.96
			12/18/14	22.70	74.09
			06/03/16	21.71	75.08
			06/27/18	22.88	73.91
MW8	97.26	96.58	08/07/14	21.56	75.02
			12/18/14	21.39	75.19
			06/03/16	20.73	75.85
			06/27/18	21.65	74.93
MW9	95.88	95.39	08/07/14	20.02	75.37
			12/18/14	19.84	75.55
			06/03/16	19.26	76.13
			08/26/16	20.37	75.02
MW10	97.00	96.84	06/27/18	22.92	73.92
PZ1	98.13	97.86	06/03/16	22.08	75.78
			06/27/18	23.09	74.77

Note:
1) Bench mark is top bolt of fire hydrant (assigned an elevation of 100 feet) on northside of Main Street east of Fox Lake Road

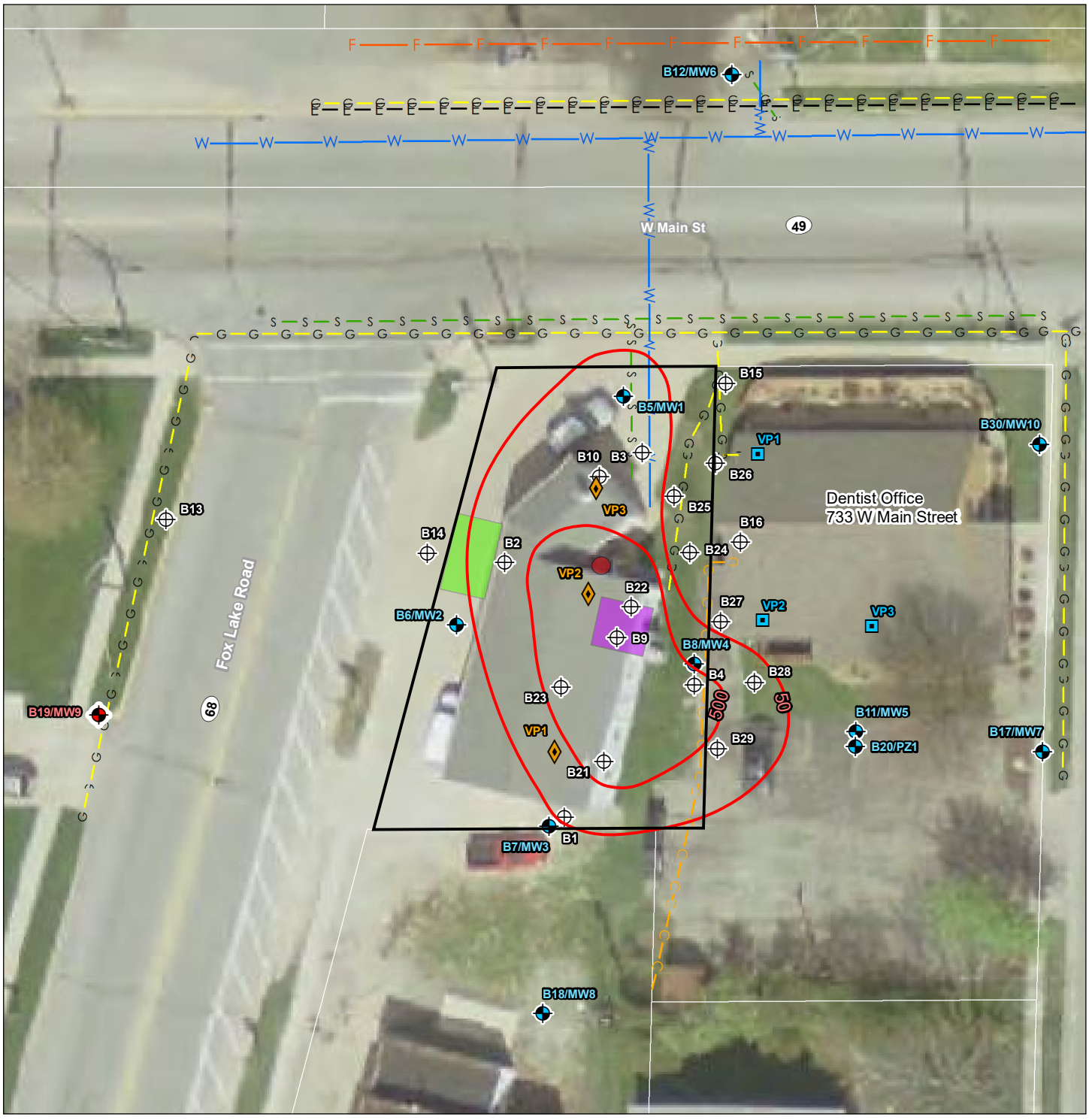
Table 3 Groundwater Analytical Results, Care'n Cleaners, Waupun, Wisconsin

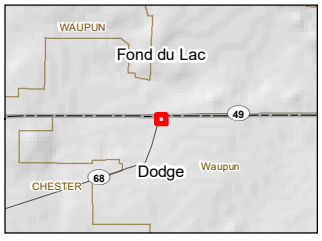
Well ID	Date Sampled	Water Table Elevation (feet)	Relevant and Significant VOC Analytical Results (µg/l)												
			Petroleum-Related VOCs							Chlorinated VOCs					
			n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	Trimethylbenzenes	Tetrachloroethene	Trichloroethene	cis 1,2-DCE	trans 1,2-DCE	Vinyl Chloride
NR 140 Preventive Action Limit (µg/l)			NE	NE	140	NE	NE	NE	96	0.5	0.5	7	20	0.02
NR 140 Enforcement Standard (µg/l)			NE	NE	700	NE	NE	NE	480	5	5	70	100	0.2
MW1	08/09/11	74.45	8.3	9.9	1.33 J	6.2	10.7	8.8	18.5	**9.8**	<0.47	<0.74	<0.79	<0.18
	8/9/2011*	74.45	9.6	8.4	1.28 "J"	5.9	10.9	9.0	18.6	**10**	<0.47	<0.74	<0.79	<0.18
	05/01/12	76.10	<18	<20	<15.6	<18.4	<18.4	<11.8	<30.8	**236**	<9.4	<14.8	<15.8	<3.6
	08/28/12	72.83	<9	<10	<7.8	<9.2	<9.2	<5.9	<15.4	**91**	<4.7	<7.4	<7.9	<1.8
	11/28/12	73.25	<9	<10	<7.8	<9.2	<9.2	<5.9	<15.4	**82**	<4.7	<7.4	<7.9	<1.8
	11/28/12*	73.25	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**90**	2.2	<0.74	<0.79	<0.18
	08/07/14	74.78	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	**21**	<0.33	<0.38	<0.35	<0.18
	12/18/14	74.97	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**35**	**17**	6.4	3.8	<0.10
	06/03/16	75.65	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**42**	<0.16	<0.41	<0.35	<0.20
	06/27/18	74.98	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**51**	0.84	0.90 J	<0.35	<0.20
MW2	08/09/11	74.93	<0.9	< 1	< 0.78	<0.92	< 0.92	< 0.59	< 0.82	1.21 J	< 0.82	< 0.82	< 0.82	< 0.82
	05/01/12	76.32	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**52**	<0.47	<0.74	<0.79	<0.18
	08/28/12	73.03	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**26.2**	<0.47	<0.74	<0.79	<0.18
	11/28/12	73.48	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**52**	<0.47	<0.74	<0.79	<0.18
	08/07/14	75.02	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	**41**	<0.33	<0.38	<0.35	<0.18
	12/18/14	75.20	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**45**	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.86	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**11**	<0.16	<0.41	<0.35	<0.20
	06/27/18	75.00	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**68**	<0.16	<0.41	<0.35	<0.20
MW3	08/09/11	74.79	< 0.9	< 1	< 0.78	< 0.92	< 0.82	< 0.59	< 0.82	**8.3**	< 0.82	< 0.82	< 0.82	< 0.82
	05/01/12	76.10	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**27**	<0.47	<0.74	<0.79	<0.18
	08/28/12	72.80	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**19.1**	<0.47	<0.74	<0.79	<0.18
	11/28/12	73.24	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**10.3**	<0.47	<0.74	<0.79	<0.18
	08/07/14	74.82	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	3.6	<0.33	<0.38	<0.35	<0.18
	12/18/14	74.98	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**7.8**	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.64	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	2.5	<0.16	<0.41	<0.35	<0.20
	06/27/18	74.77	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**32**	<0.16	<0.41	<0.35	<0.20
MW4	08/09/11	74.70	< 0.9	< 1	< 0.78	< 0.92	< 0.82	< 0.59	< 0.82	**21.1**	< 0.82	< 0.82	< 0.82	< 0.82
	05/01/12	76.24	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**50**	<0.47	<0.74	<0.79	<0.18
	08/28/12	72.86	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**6.7**	<0.47	<0.74	<0.79	<0.18
	11/28/12	73.30	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**11.6**	<0.47	<0.74	<0.79	<0.18
	08/07/14	74.86	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	**30.1**	<0.33	<0.38	<0.35	<0.18
	12/18/14*	75.27	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**19**	<0.19	<0.12	<0.25	<0.10
	12/18/14	75.27	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**20**	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.74	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**27**	<0.16	<0.41	<0.35	<0.20
	06/03/16*	75.74	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**24**	<0.16	<0.41	<0.35	<0.20
	06/27/18	74.79	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**84**	<0.16	<0.41	<0.35	<0.20
	06/27/18*	74.79	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**81**	<0.16	<0.41	<0.35	<0.20
MW5	05/01/12	76.22	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**24.7**	3.4	11.8	<0.79	<0.18
	08/28/12	72.79	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**8.7**	<0.47	<0.74	<0.79	<0.18
	11/28/12	73.24	<0.9	<1	<0.78	<0.92	<0.92	<0.59	<1.54	**19.2**	<0.47	<0.74	<0.79	<0.18
	08/07/14	74.81	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	**33**	<0.33	<0.38	<0.35	<0.18
	12/18/14	75.01	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**11**	<0.19	<0.12	<0.25	<0.10
	06/27/18	74.72	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**44**	<0.16	<0.41	<0.35	<0.20
	06/03/16	75.75	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**16**	<0.16	<0.41	<0.35	<0.20
MW6	05/01/12	76.12	---	---	---	---	---	---	---	2.55	<0.47	<0.74	<0.79	<0.18
	08/28/12	72.98	---	---	---	---	---	---	---	**5**	<0.47	<0.74	<0.79	<0.18
	11/28/12	73.39	---	---	---	---	---	---	---	**6.4**	1.16 "J"	0.91 "J"	<0.79	<0.18
	08/07/14	74.27	---	---	---	---	---	---	---	**5.9**	<0.33	<0.38	<0.35	<0.18
	08/07/2014[1]	74.27	---	---	---	---	---	---	---	**5.3**	<0.33	<0.38	<0.35	<0.18
	12/18/14	75.10	---	---	---	---	---	---	---	**6.6**	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.69	---	---	---	---	---	---	---	2.0	<0.16	<0.41	<0.35	<0.20
	06/27/18	74.89	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**7.7**	<0.16	<0.41	<0.35	<0.20
MW7	08/07/14	73.96	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	1.8	<0.33	<0.38	<0.35	<0.18
	12/18/14	74.09	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	4.6	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.08	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	4.0	<0.16	<0.42	<0.35	<0.20
	06/27/18	73.91	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**8.9**	0.41 J	0.84 J	<0.35	<0.20
MW8	08/07/14	75.02	---	---	---	---	---	---	---	0.69 "J"	<0.33	<0.38	<0.35	<0.18
	12/18/14	75.19	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	0.78 "J"	<0.19	<0.12	<0.25	<0.10
	06/03/16	75.85	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	1.2	<0.16	<0.41	<0.35	<0.20
	06/27/18	74.93	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	2.2	<0.16	<0.41	<0.35	<0.20
MW9	08/07/14	75.37	<0.35	<0.33	<0.55	<0.3	<0.31	<0.25	<3.6	<0.33	<0.33	<0.38	<0.35	<0.18
	12/18/14	75.55	<0.13	<0.15	<0.13	<0.14	<0.17	<0.13	<0.14	**16**	<0.19	<0.12	<0.25	<0.10
	06/03/16	76.13	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	**24**	<0.16	<0.41	<0.35	<0.20
	08/26/16	75.02	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.61	**26**	<0.16	<0.41	<0.35	<0.20
MW10	06/27/18	73.92	<0.39	<0.40	<0.18	<0.39	<0.36	<0.41	<0.61	**9.7**	<0.16	<0.41	<0.35	<0.20
PZ1	06/03/16	75.78	<0.39	<0.40	<0.18	<0.28	<0.36	<0.41	<0.51	1.0	<0.16	<0.41	<0.35	<0.20

Key:

NA = not applicable
µg/l = micrograms per liter
cis 1,2-DCE = cis 1,2-dichloroethene
trans 1,2-DCE = trans 1,2-dichloroethene
< X = Not detected above Laboratory Limit of Detection (LOD) of X.
J = Analyte detected between Limit of Detection and Limit of Quantitation
VOC = Volatile Organic Compound
32 = NR 140 Preventive Action Limit Exceeded
32 = NR 140 Enforcement Standard Exceeded
* = duplicate sample

FIGURES





Notes
1. Coordinate System: NAD 1983 HARN WISCRS Dodge County Feet
2. Data Sources Include: Stantec, NADS Orthophotography: ESRI

Legend

- Approximate Site Boundary
- Abandoned Monitoring Well
- Borehole Location and Identification
- Soil Borehole / Monitoring Well Location and Identification
- Vapor Point inside 735 West Main Street
- Vapor Point inside 733 West Main Street
- Approximate PCE In Soil Isoconcentration Line (ug/Kg)
- AST - PCE - Removed 1980s
- Drycleaning Machine Area
- Former Gas UST Area
- E—E Electric
- F—F Fiber Optic Line
- G—G Buried Gas Line
- S—S Sanitary Sewer
- C—C Buried Communication Line
- W—W Water Line

Figure No.
1

Title
Site Layout and Approximate Extent of PCE in Soil

Client/Project
Care'N Cleaners
735 West Main Street
Waupun, Wisconsin

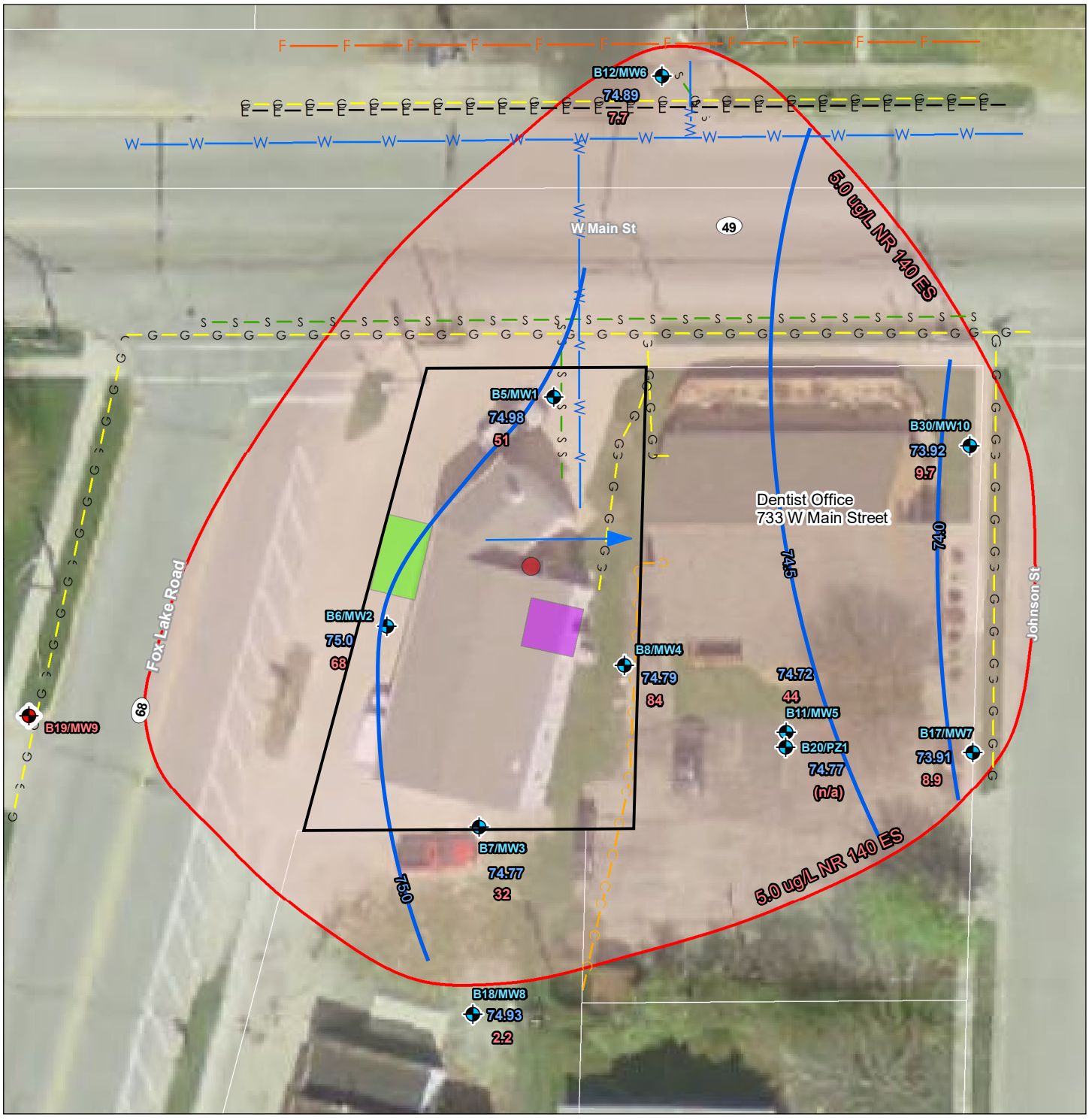
Project Location
T14N, R15E, S31
C. of Waupun,
Dodge Co., WI

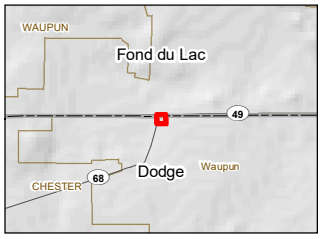
193702865
Prepared by AJS on 2016-07-05
Updated by AJS on 2018-09-18
Independent Review by CCH on 2016-10-04

0 15 30 Feet
1:360 (at original document size of 8.5x11)

N

Stantec





Notes
1. Coordinate System: NAD 1983 HARN WISCRS Dodge County Feet
2. Data Sources Include: Stantec, NADS Orthophotography: ESRI

Legend

- Approximate Site Boundary
- Abandoned Monitoring Well
- Soil Borehole / Monitoring Well Location and Identification
- AST - PCE - Removed 1980s
- Drycleaning Machine Area
- Former Gas UST Area
- Extent of Groundwater with PCE Concentrations Exceeding NR 140 ES
- Groundwater Contour Line
- E—E Electric
- F—F Fiber Optic Line
- G—G Buried Gas Line
- S—S Sanitary Sewer
- C—C Buried Communication Line
- W—W Water Line
- 74.77 Groundwater Elevation (ft)
- 32 PCE Concentration in Groundwater (ug/L)

Figure No.
2

Title
Groundwater Contour Map
June 27, 2018

Client/Project
Care'N Cleaners
735 West Main Street
Waupun, Wisconsin

Project Location
T14N, R15E, S31
C. of Waupun,
Dodge Co., WI

193702865
Prepared by AJS on 2016-07-05
Updated by AJS on 2018-09-18
Independent Review by CCH on 2016-10-04

0 15 30 Feet
1:360 (at original document size of 8.5x11)

N

Stantec

ATTACHMENT A

WNDR BOREHOLE LOGS AND ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: CARE'N Cleaner	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW- 10
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number: VR025 DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W	Date Well Installed: 06/22/2018 (m m d d y y)
Distance Well Is From Waste/Source Boundary: _____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): BADGER STATE DRILLING; DAKOTA Bevins
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation FLUSH ft. MSL
B. Well casing, top elevation -2.2 ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; 6" AIR HAMMER; Other ☒

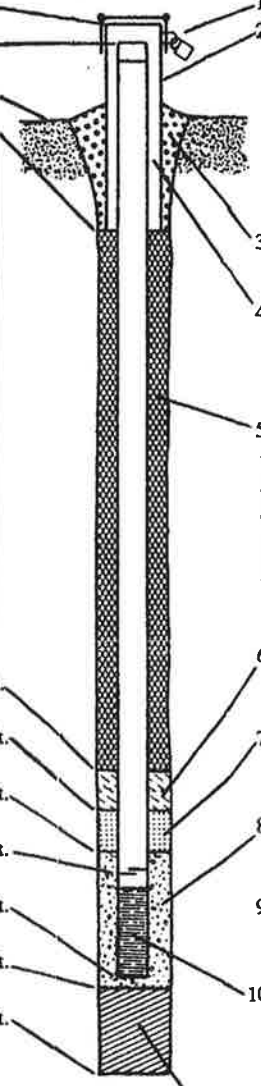
15. Drilling fluid used: Water ☐ 02; Air ☒ 01; Drilling Mud ☐ 03; None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 2 ft.
F. Fine sand, top _____ ft. MSL or 15 ft.
G. Filter pack, top _____ ft. MSL or 16 ft.
H. Screen joint, top _____ ft. MSL or 18 ft.
I. Well bottom _____ ft. MSL or 28 ft.
J. Filter pack, bottom _____ ft. MSL or 30.7 ft.
K. Borehole, bottom _____ ft. MSL or 30.7 ft.
L. Borehole, diameter 10/6 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐; Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. OHIO #7
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. OHIO #5
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐
10. Screen material: PVC SCH 40
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐
b. Manufacturer MONOFLEX
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐

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

Signature: Mark Larson | Firm: Badger State Drilling, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

BADGER STATE DRILLING CO., INC.

STOUGHTON, WISCONSIN

FIELD BORING LOG

Sheet _____ Of _____

FOR CAREN CLEANERS BSD# 7408

Job No. _____

LOCATION WAUPUN WI ELEV. _____

Boring No. MW-10

GROUND WATER

While drilling _____ Time after drilling _____ _____

Before casing removal _____ Depth to water _____ _____

After casing removal _____ Depth to cave-in _____ _____

Start 06-22-18

Unit D-50

Chief DB-DD

Sample No.	Moisture	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Recovery	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Casing/Probe Weight Drop	Unconfined Strength	Boulders	Blows on Casing Size	Blows on Probe Size	Drilling Method
						BLIND DRILL TO 11' Auger REFUSAL SWITCH TO AIR HAMMER				6¼		HSA
						HAMMER DOWN TO 30'9".						
						SET WELL AT 28 FT. USING 10' SCREEN						
						Filter sand 30.9 - 16'						AA
						chips 16' - 2'						
						(1) BAG Fine Sand						
						(6) BAGS Filter sand						
						(9) BAGS chips						
						(1) FLUSHMOUNT						
						(1) BAG SAKRETE						
						(2) DRUMS						
						WELL # VR075						

5 10 15 20 25 30 35 40 45 50

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Care'n Cleaners	0	B27

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Keith Weisman Geiss Soil & Samples	6/22/2018	6/22/2018	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☒ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 6, T 13 N, R 15 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dodge	14	Waupun

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S27(0-2) GEOPROBE	24 14			ASPHALT				5.0						
			1.5	SAND AND GRAVEL FILL										
S27(2-4) GEOPROBE	24 14			SILTY CLAY, medium plasticity, some medium to large gravel from 2 to 7 feet, brown (7.5YR 4/3) from 2 to 4 feet,				6.6						
			3.0	yellowish brown (10YR 5/4) from 4 to 7 feet, moist, no odor.	CL-ML									
S27(4-6) GEOPROBE	24 15		4.5					6.4						
S27(6-8) GEOPROBE	24 15		6.0					7.4						
				REFUSAL AT 7 FEET.										

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

Signature Firm Stantec Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Care'n Cleaners	0	B28

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Keith Weisman Geiss Soil & Samples	6/22/2018	6/22/2018	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☒ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 6, T 13 N, R 15 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dodge	14	Waupun

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S28(0-2) GEOPROBE	24 11		0	TOPSOIL				5.0						
			1.5	SILTY CLAY, medium plasticity, trace brick and large gravel from 4 to 6 feet, brown (7.5YR 4/2) from 0.6 to 4 feet, dark grey (7.5YR 4/1) from 4 to 6 feet, dry, no odor.	CL-ML									
S28(2-4) GEOPROBE	24 11		3.0					5.4						
S28(4-6) GEOPROBE	24 10		4.5					4.7						
S28(6-8) GEOPROBE	24 10		6.0	SAND AND GRAVEL, well graded, brown (7.5YR 6/3), moist, no odor.	GW			4.8						
			7.5	REFUSAL AT 7.5 FEET.										

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

Signature Firm Stantec Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Care'n Cleaners	0	B29

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Keith Weisman Geiss Soil & Samples	6/22/2018	6/22/2018	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☒ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 6, T 13 N, R 15 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dodge	14	Waupun

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S29(0-2) GEOPROBE	24 22			ASPHALT				3.8						
			1.5	SAND AND GRAVEL FILL										
S29(2-4) GEOPROBE	24 22		3.0	SILTY CLAY, medium plasticity, very dark grey (7.5YR 3/1) from 0.6 to 2 feet, brown (7.5YR 4/4) from 2 to 4 feet, moist, no odor.	CL-ML			3.0						
S29(4-6) GEOPROBE	24 10		4.5	SAND AND GRAVEL, well graded, some silt, yellowish brown (10YR 5/4), moist, no odor.	GW			3.9						
				REFUSAL AT 5 FEET.										

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

Signature Firm Stantec Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Care'n Cleaners	0	B30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dakota Bevins Badger State Drilling	6/22/2018	6/22/2018	HSA/Air Rotary

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW10	Feet MSL	Feet MSL	10.0 inches

Local Grid Origin ☒ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 6, T 13 N, R 15 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Dodge	14	Waupun

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.5 3.0 4.5 6.0 7.5 9.0 10.5 12.0 13.5 15.0 16.5 18.0 19.5	BLIND DRILLED - Lithology assumed to be similar to boring B17.										

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

Signature [signature] Firm Stantec Tel: Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B30 Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			21.0	BLIND DRILLED - Lithology assumed to be similar to boring B17. *(continued)*										
			22.5											
			24.0											
			25.5											
			27.0											
			28.5											
			30.0	END OF BORING AT 30 FEET.										

ATTACHMENT B

LABORATORY ANALYSIS REPORTS AND CHAIN-OF-CUSTODY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-147517-1
Client Project/Site: Care'n Cleaners - 193702865

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand

Authorized for release by:
7/9/2018 5:00:44 PM
Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Job ID: 500-147517-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-147517-1

Comments
No additional comments.

Receipt
The samples were received on 6/26/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
Method(s) 8260B: The extraction LCS associated with preparation batch 439286 had several analyte recoveries above control limits. The instrument LCS associated with analytical batch 439469 had one analyte recovery above control limits. Associated samples were non detect for those compounds; therefore re-analysis was not performed. The data have been reported and qualified.
S27 (6-8) (500-147517-1), S28 (6-8) (500-147517-2) and S29 (4-6) (500-147517-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Client Sample ID: S27 (6-8) — Lab Sample ID: 500-147517-1

No Detections.

Client Sample ID: S28 (6-8) — Lab Sample ID: 500-147517-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		61	23	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: S29 (4-6) — Lab Sample ID: 500-147517-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	140		65	24	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-147517-1	S27 (6-8)	Solid	06/22/18 09:28	06/26/18 09:00
500-147517-2	S28 (6-8)	Solid	06/22/18 09:35	06/26/18 09:00
500-147517-3	S29 (4-6)	Solid	06/22/18 09:41	06/26/18 09:00

Client Sample ID: S27 (6-8)
Date Collected: 06/22/18 09:28
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-1
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		62	28	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1,1-Trichloroethane	<23	*	62	23	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1-Dichloroethane	<25		62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,1-Dichloropropene	<18	*	62	18	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2,3-Trichloropropane	<25		62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2,4-Trimethylbenzene	<22	*	62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,2-Dichloropropane	<26		62	26	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,3,5-Trimethylbenzene	<23	*	62	23	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,3-Dichloropropane	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
1,4-Dichlorobenzene	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
2,2-Dichloropropane	<27	*	62	27	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
2-Chlorotoluene	<19		62	19	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Benzene	<9.0		15	9.0	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Bromobenzene	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Bromochloromethane	<26		62	26	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Bromoform	<30		62	30	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Bromomethane	<49		120	49	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Carbon tetrachloride	<24	*	62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Chlorobenzene	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Chloroethane	<31		62	31	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Chloroform	<23	*	120	23	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Chloromethane	<20		62	20	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Dibromomethane	<17		62	17	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Dichlorodifluoromethane	<42		120	42	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Ethylbenzene	<11	*	15	11	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Hexachlorobutadiene	<27		62	27	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Isopropyl ether	<17		62	17	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Isopropylbenzene	<24	*	62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Methylene Chloride	<100		310	100	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Naphthalene	<21		62	21	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
n-Butylbenzene	<24	*	62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
N-Propylbenzene	<25	*	62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
p-Isopropyltoluene	<22	*	62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Client Sample ID: S27 (6-8)
Date Collected: 06/22/18 09:28
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-1
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<25	*	62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Styrene	<24		62	24	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
tert-Butylbenzene	<25	*	62	25	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Toluene	<9.1		15	9.1	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Trichloroethene	<10		31	10	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Trichlorofluoromethane	<26		62	26	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Vinyl chloride	<16		62	16	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50
Xylenes, Total	<14		31	14	ug/Kg	☼	06/22/18 09:28	07/02/18 17:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*	*06/22/18 09:28*	*07/02/18 17:43*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*06/22/18 09:28*	*07/02/18 17:43*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*06/22/18 09:28*	*07/02/18 17:43*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*06/22/18 09:28*	*07/02/18 17:43*	*50*

Client Sample ID: S28 (6-8)
Date Collected: 06/22/18 09:35
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-2
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		61	28	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1,1-Trichloroethane	<23	*	61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1,2,2-Tetrachloroethane	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1,2-Trichloroethane	<22		61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1-Dichloroethane	<25		61	25	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1-Dichloroethene	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,1-Dichloropropene	<18	*	61	18	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2,3-Trichlorobenzene	<28		61	28	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2,3-Trichloropropane	<25		61	25	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2,4-Trichlorobenzene	<21		61	21	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2,4-Trimethylbenzene	<22	*	61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2-Dibromoethane	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2-Dichlorobenzene	<20		61	20	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2-Dichloroethane	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,2-Dichloropropane	<26		61	26	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,3,5-Trimethylbenzene	<23	*	61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,3-Dichlorobenzene	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,3-Dichloropropane	<22		61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
1,4-Dichlorobenzene	<22		61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
2,2-Dichloropropane	<27	*	61	27	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
2-Chlorotoluene	<19		61	19	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
4-Chlorotoluene	<21		61	21	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Benzene	<8.9		15	8.9	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Bromobenzene	<22		61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Bromochloromethane	<26		61	26	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Bromodichloromethane	<23		61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Bromoform	<30		61	30	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Bromomethane	<49		120	49	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Carbon tetrachloride	<23	*	61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Chlorobenzene	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Chloroethane	<31		61	31	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Chloroform	<23	*	120	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Chloromethane	<20		61	20	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
cis-1,2-Dichloroethene	<25		61	25	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
cis-1,3-Dichloropropene	<25		61	25	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Dibromochloromethane	<30		61	30	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Dibromomethane	<17		61	17	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Dichlorodifluoromethane	<41		120	41	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Ethylbenzene	<11	*	15	11	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Hexachlorobutadiene	<27		61	27	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Isopropyl ether	<17		61	17	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Isopropylbenzene	<23	*	61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Methyl tert-butyl ether	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Methylene Chloride	<100		310	100	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Naphthalene	<20		61	20	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
n-Butylbenzene	<24	*	61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
N-Propylbenzene	<25	*	61	25	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
p-Isopropyltoluene	<22	*	61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Client Sample ID: S28 (6-8)
Date Collected: 06/22/18 09:35
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-2
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<24	*	61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Styrene	<24		61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
tert-Butylbenzene	<24	*	61	24	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Tetrachloroethene	**130**		61	23	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Toluene	<9.0		15	9.0	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
trans-1,2-Dichloroethene	<21		61	21	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
trans-1,3-Dichloropropene	<22		61	22	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Trichloroethene	<10		31	10	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Trichlorofluoromethane	<26		61	26	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Vinyl chloride	<16		61	16	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50
Xylenes, Total	<13		31	13	ug/Kg	☼	06/22/18 09:35	07/02/18 18:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*06/22/18 09:35*	*07/02/18 18:10*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*06/22/18 09:35*	*07/02/18 18:10*	*50*
Dibromofluoromethane	*86*		*75 - 120*	*06/22/18 09:35*	*07/02/18 18:10*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*06/22/18 09:35*	*07/02/18 18:10*	*50*

Client Sample ID: S29 (4-6)
Date Collected: 06/22/18 09:41
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-3
Matrix: Solid
Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1,1-Trichloroethane	<25	*	65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1-Dichloroethane	<27		65	27	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1-Dichloroethene	<25		65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,1-Dichloropropene	<19	*	65	19	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2,4-Trichlorobenzene	<22		65	22	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2,4-Trimethylbenzene	<23	*	65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2-Dichloroethane	<25		65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,3,5-Trimethylbenzene	<25	*	65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,3-Dichloropropane	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
2,2-Dichloropropane	<29	*	65	29	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
2-Chlorotoluene	<20		65	20	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Benzene	<9.5		16	9.5	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Bromobenzene	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Bromochloromethane	<28		65	28	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Bromodichloromethane	<24		65	24	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Bromoform	<31		65	31	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Bromomethane	<52		130	52	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Carbon tetrachloride	<25	*	65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Chlorobenzene	<25		65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Chloroethane	<33		65	33	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Chloroform	<24	*	130	24	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Chloromethane	<21		65	21	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
cis-1,2-Dichloroethene	<26		65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Dibromochloromethane	<32		65	32	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Dibromomethane	<17		65	17	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Ethylbenzene	<12	*	16	12	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Isopropyl ether	<18		65	18	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Isopropylbenzene	<25	*	65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Methyl tert-butyl ether	<26		65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Methylene Chloride	<110		320	110	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Naphthalene	<22		65	22	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
n-Butylbenzene	<25	*	65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
N-Propylbenzene	<27	*	65	27	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
p-Isopropyltoluene	<23	*	65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50

Client Sample ID: S29 (4-6)
Date Collected: 06/22/18 09:41
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-3
Matrix: Solid
Percent Solids: 86.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26	*	65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Styrene	<25		65	25	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
tert-Butylbenzene	<26	*	65	26	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Tetrachloroethene	**140**		65	24	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Toluene	<9.5		16	9.5	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
trans-1,2-Dichloroethene	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
trans-1,3-Dichloropropene	<23		65	23	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Trichloroethene	<11		32	11	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Trichlorofluoromethane	<28		65	28	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Vinyl chloride	<17		65	17	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50
Xylenes, Total	<14		32	14	ug/Kg	☼	06/22/18 09:41	07/02/18 18:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*06/22/18 09:41*	*07/02/18 18:36*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*06/22/18 09:41*	*07/02/18 18:36*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*06/22/18 09:41*	*07/02/18 18:36*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*06/22/18 09:41*	*07/02/18 18:36*	*50*

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

GC/MS VOA

Prep Batch: 439286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147517-1	S27 (6-8)	Total/NA	Solid	5035	
500-147517-2	S28 (6-8)	Total/NA	Solid	5035	
500-147517-3	S29 (4-6)	Total/NA	Solid	5035	
LB3 500-439286/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-439286/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 439469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147517-1	S27 (6-8)	Total/NA	Solid	8260B	439286
500-147517-2	S28 (6-8)	Total/NA	Solid	8260B	439286
500-147517-3	S29 (4-6)	Total/NA	Solid	8260B	439286
LB3 500-439286/21-A	Method Blank	Total/NA	Solid	8260B	439286
MB 500-439469/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-439286/22-A	Lab Control Sample	Total/NA	Solid	8260B	439286
LCS 500-439469/4	Lab Control Sample	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 438608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147517-1	S27 (6-8)	Total/NA	Solid	Moisture	
500-147517-2	S28 (6-8)	Total/NA	Solid	Moisture	
500-147517-3	S29 (4-6)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-147517-1	S27 (6-8)	90	93	87	100
500-147517-2	S28 (6-8)	91	92	86	100
500-147517-3	S29 (4-6)	91	94	87	100
LB3 500-439286/21-A	Method Blank	91	94	89	97
LCS 500-439286/22-A	Lab Control Sample	89	93	91	99
LCS 500-439469/4	Lab Control Sample	86	93	89	100
MB 500-439469/6	Method Blank	89	95	86	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-439286/21-A
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439286

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1-Dichloroethane	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1-Dichloroethene	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,1-Dichloropropene	<15		50	15	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2-Dibromoethane	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2-Dichloroethane	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,2-Dichloropropane	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,3-Dichloropropane	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
2,2-Dichloropropane	<22		50	22	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
2-Chlorotoluene	<16		50	16	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
4-Chlorotoluene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Benzene	<7.3		13	7.3	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Bromobenzene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Bromochloromethane	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Bromodichloromethane	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Bromoform	<24		50	24	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Bromomethane	<40		100	40	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Carbon tetrachloride	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Chlorobenzene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Chloroethane	<25		50	25	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Chloroform	<19		100	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Chloromethane	<16		50	16	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Dibromochloromethane	<24		50	24	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Dibromomethane	<14		50	14	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Hexachlorobutadiene	<22		50	22	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Isopropyl ether	<14		50	14	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Isopropylbenzene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Methylene Chloride	<82		250	82	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Naphthalene	<17		50	17	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
n-Butylbenzene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
N-Propylbenzene	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-439286/21-A
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439286

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
sec-Butylbenzene	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Styrene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
tert-Butylbenzene	<20		50	20	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Tetrachloroethene	<19		50	19	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Toluene	<7.4		13	7.4	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Trichloroethene	<8.2		25	8.2	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Trichlorofluoromethane	<21		50	21	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Vinyl chloride	<13		50	13	ug/Kg		06/29/18 17:30	07/02/18 19:02	50
Xylenes, Total	<11		25	11	ug/Kg		06/29/18 17:30	07/02/18 19:02	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*06/29/18 17:30*	*07/02/18 19:02*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*06/29/18 17:30*	*07/02/18 19:02*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*06/29/18 17:30*	*07/02/18 19:02*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*06/29/18 17:30*	*07/02/18 19:02*	*50*

Lab Sample ID: LCS 500-439286/22-A
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2920		ug/Kg		117	70 - 125
1,1,1-Trichloroethane	2500	3370	*	ug/Kg		135	70 - 125
1,1,2,2-Tetrachloroethane	2500	2390		ug/Kg		95	67 - 127
1,1,2-Trichloroethane	2500	2560		ug/Kg		103	70 - 122
1,1-Dichloroethane	2500	2950		ug/Kg		118	70 - 125
1,1-Dichloroethene	2500	2890		ug/Kg		116	67 - 122
1,1-Dichloropropene	2500	3260	*	ug/Kg		131	70 - 121
1,2,3-Trichlorobenzene	2500	2000		ug/Kg		80	55 - 140
1,2,3-Trichloropropane	2500	2480		ug/Kg		99	50 - 133
1,2,4-Trichlorobenzene	2500	2470		ug/Kg		99	66 - 127
1,2,4-Trimethylbenzene	2500	3170	*	ug/Kg		127	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2070		ug/Kg		83	56 - 123
1,2-Dibromoethane	2500	2670		ug/Kg		107	70 - 125
1,2-Dichlorobenzene	2500	2930		ug/Kg		117	70 - 125
1,2-Dichloroethane	2500	2770		ug/Kg		111	68 - 127
1,2-Dichloropropane	2500	2720		ug/Kg		109	67 - 130
1,3,5-Trimethylbenzene	2500	3250	*	ug/Kg		130	70 - 123
1,3-Dichlorobenzene	2500	2980		ug/Kg		119	70 - 125
1,3-Dichloropropane	2500	2740		ug/Kg		110	62 - 136
1,4-Dichlorobenzene	2500	2960		ug/Kg		118	70 - 120
2,2-Dichloropropane	2500	4140	*	ug/Kg		166	58 - 129
2-Chlorotoluene	2500	3090		ug/Kg		123	70 - 125
4-Chlorotoluene	2500	3110		ug/Kg		124	68 - 124
Benzene	2500	2970		ug/Kg		119	70 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-439286/22-A
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2850		ug/Kg		114	70 - 122
Bromochloromethane	2500	2730		ug/Kg		109	65 - 122
Bromodichloromethane	2500	2840		ug/Kg		114	69 - 120
Bromoform	2500	2520		ug/Kg		101	56 - 132
Bromomethane	2500	2790		ug/Kg		112	40 - 130
Carbon tetrachloride	2500	3300	*	ug/Kg		132	65 - 122
Chlorobenzene	2500	2950		ug/Kg		118	70 - 120
Chloroethane	2500	2730		ug/Kg		109	45 - 127
Chloroform	2500	3200	*	ug/Kg		128	70 - 120
Chloromethane	2500	1920		ug/Kg		77	54 - 147
cis-1,2-Dichloroethene	2500	3030		ug/Kg		121	70 - 125
cis-1,3-Dichloropropene	2500	2860		ug/Kg		114	64 - 127
Dibromochloromethane	2500	2590		ug/Kg		104	68 - 125
Dibromomethane	2500	2560		ug/Kg		103	70 - 120
Dichlorodifluoromethane	2500	2280		ug/Kg		91	40 - 150
Ethylbenzene	2500	3030	*	ug/Kg		121	70 - 120
Hexachlorobutadiene	2500	3210		ug/Kg		128	51 - 150
Isopropylbenzene	2500	3280	*	ug/Kg		131	70 - 126
Methyl tert-butyl ether	2500	2900		ug/Kg		116	70 - 120
Methylene Chloride	2500	2920		ug/Kg		117	69 - 125
Naphthalene	2500	1990		ug/Kg		80	59 - 130
n-Butylbenzene	2500	3210	*	ug/Kg		128	68 - 125
N-Propylbenzene	2500	3220	*	ug/Kg		129	69 - 127
p-Isopropyltoluene	2500	3180	*	ug/Kg		127	70 - 125
sec-Butylbenzene	2500	3280	*	ug/Kg		131	70 - 123
Styrene	2500	3000		ug/Kg		120	70 - 120
tert-Butylbenzene	2500	3210	*	ug/Kg		129	70 - 121
Tetrachloroethene	2500	3150		ug/Kg		126	70 - 128
Toluene	2500	3050		ug/Kg		122	70 - 125
trans-1,2-Dichloroethene	2500	3070		ug/Kg		123	70 - 125
trans-1,3-Dichloropropene	2500	2720		ug/Kg		109	62 - 128
Trichloroethene	2500	2870		ug/Kg		115	70 - 125
Trichlorofluoromethane	2500	2510		ug/Kg		100	70 - 126
Vinyl chloride	2500	2210		ug/Kg		89	64 - 126
Xylenes, Total	5000	5980		ug/Kg		120	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: MB 500-439469/6
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			07/02/18 10:40	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-439469/6
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			07/02/18 10:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			07/02/18 10:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			07/02/18 10:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			07/02/18 10:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			07/02/18 10:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			07/02/18 10:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			07/02/18 10:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			07/02/18 10:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			07/02/18 10:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			07/02/18 10:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			07/02/18 10:40	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/02/18 10:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			07/02/18 10:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			07/02/18 10:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			07/02/18 10:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			07/02/18 10:40	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/02/18 10:40	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			07/02/18 10:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			07/02/18 10:40	1
Bromoform	<0.48		1.0	0.48	ug/Kg			07/02/18 10:40	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			07/02/18 10:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			07/02/18 10:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			07/02/18 10:40	1
Chloroform	<0.37		2.0	0.37	ug/Kg			07/02/18 10:40	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			07/02/18 10:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			07/02/18 10:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			07/02/18 10:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			07/02/18 10:40	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			07/02/18 10:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			07/02/18 10:40	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/02/18 10:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			07/02/18 10:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			07/02/18 10:40	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			07/02/18 10:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			07/02/18 10:40	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/02/18 10:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			07/02/18 10:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-439469/6
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/02/18 10:40	1
Styrene	<0.39		1.0	0.39	ug/Kg			07/02/18 10:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			07/02/18 10:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			07/02/18 10:40	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/02/18 10:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			07/02/18 10:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			07/02/18 10:40	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			07/02/18 10:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			07/02/18 10:40	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			07/02/18 10:40	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/02/18 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*07/02/18 10:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*07/02/18 10:40*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*07/02/18 10:40*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*07/02/18 10:40*	*1*

Lab Sample ID: LCS 500-439469/4
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	46.6		ug/Kg		93	70 - 125
1,1,1-Trichloroethane	50.0	56.7		ug/Kg		113	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.9		ug/Kg		76	67 - 127
1,1,2-Trichloroethane	50.0	41.5		ug/Kg		83	70 - 122
1,1-Dichloroethane	50.0	48.8		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	50.6		ug/Kg		101	67 - 122
1,1-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 121
1,2,3-Trichlorobenzene	50.0	31.1		ug/Kg		62	55 - 140
1,2,3-Trichloropropane	50.0	40.5		ug/Kg		81	50 - 133
1,2,4-Trichlorobenzene	50.0	39.5		ug/Kg		79	66 - 127
1,2,4-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	33.1		ug/Kg		66	56 - 123
1,2-Dibromoethane	50.0	43.4		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	43.3		ug/Kg		87	68 - 127
1,2-Dichloropropane	50.0	42.9		ug/Kg		86	67 - 130
1,3,5-Trimethylbenzene	50.0	54.0		ug/Kg		108	70 - 123
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 125
1,3-Dichloropropane	50.0	43.6		ug/Kg		87	62 - 136
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	70 - 120
2,2-Dichloropropane	50.0	72.0	*	ug/Kg		144	58 - 129
2-Chlorotoluene	50.0	50.8		ug/Kg		102	70 - 125
4-Chlorotoluene	50.0	51.7		ug/Kg		103	68 - 124
Benzene	50.0	48.2		ug/Kg		96	70 - 120
Bromobenzene	50.0	46.3		ug/Kg		93	70 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-439469/4
Matrix: Solid
Analysis Batch: 439469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	43.8		ug/Kg		88	65 - 122
Bromodichloromethane	50.0	45.4		ug/Kg		91	69 - 120
Bromoform	50.0	40.4		ug/Kg		81	56 - 132
Bromomethane	50.0	46.5		ug/Kg		93	40 - 130
Carbon tetrachloride	50.0	55.3		ug/Kg		111	65 - 122
Chlorobenzene	50.0	48.2		ug/Kg		96	70 - 120
Chloroethane	50.0	43.8		ug/Kg		88	45 - 127
Chloroform	50.0	50.9		ug/Kg		102	70 - 120
Chloromethane	50.0	36.8		ug/Kg		74	54 - 147
cis-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	70 - 125
cis-1,3-Dichloropropene	50.0	46.4		ug/Kg		93	64 - 127
Dibromochloromethane	50.0	41.3		ug/Kg		83	68 - 125
Dibromomethane	50.0	41.8		ug/Kg		84	70 - 120
Dichlorodifluoromethane	50.0	54.2		ug/Kg		108	40 - 150
Ethylbenzene	50.0	49.2		ug/Kg		98	70 - 120
Hexachlorobutadiene	50.0	52.5		ug/Kg		105	51 - 150
Isopropylbenzene	50.0	54.6		ug/Kg		109	70 - 126
Methyl tert-butyl ether	50.0	46.0		ug/Kg		92	70 - 120
Methylene Chloride	50.0	48.6		ug/Kg		97	69 - 125
Naphthalene	50.0	30.3		ug/Kg		61	59 - 130
n-Butylbenzene	50.0	53.6		ug/Kg		107	68 - 125
N-Propylbenzene	50.0	53.3		ug/Kg		107	69 - 127
p-Isopropyltoluene	50.0	52.6		ug/Kg		105	70 - 125
sec-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 123
Styrene	50.0	48.7		ug/Kg		97	70 - 120
tert-Butylbenzene	50.0	53.0		ug/Kg		106	70 - 121
Tetrachloroethene	50.0	53.0		ug/Kg		106	70 - 128
Toluene	50.0	50.0		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 125
trans-1,3-Dichloropropene	50.0	44.0		ug/Kg		88	62 - 128
Trichloroethene	50.0	46.8		ug/Kg		94	70 - 125
Trichlorofluoromethane	50.0	40.7		ug/Kg		81	70 - 126
Vinyl chloride	50.0	41.0		ug/Kg		82	64 - 126
Xylenes, Total	100	99.0		ug/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Client Sample ID: S27 (6-8)
Date Collected: 06/22/18 09:28
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	438608	06/26/18 11:50	GCA	TAL CHI

Client Sample ID: S27 (6-8)
Date Collected: 06/22/18 09:28
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-1
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			439286	06/22/18 09:28	WRE	TAL CHI
Total/NA	Analysis	8260B		50	439469	07/02/18 17:43	PMF	TAL CHI

Client Sample ID: S28 (6-8)
Date Collected: 06/22/18 09:35
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	438608	06/26/18 11:50	GCA	TAL CHI

Client Sample ID: S28 (6-8)
Date Collected: 06/22/18 09:35
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-2
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			439286	06/22/18 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	439469	07/02/18 18:10	PMF	TAL CHI

Client Sample ID: S29 (4-6)
Date Collected: 06/22/18 09:41
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	438608	06/26/18 11:50	GCA	TAL CHI

Client Sample ID: S29 (4-6)
Date Collected: 06/22/18 09:41
Date Received: 06/26/18 09:00

Lab Sample ID: 500-147517-3
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			439286	06/22/18 09:41	WRE	TAL CHI
Total/NA	Analysis	8260B		50	439469	07/02/18 18:36	PMF	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147517-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-147517 COC

Chain of Custody Record

Lab Job #: 500-147517

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 3.3

Report To (optional)		Bill To (optional)	
Contact:	Jeff Brand	Contact:	SAME
Company:	Stantec	Company:	
Address:	1165 Scheuring Rd	Address:	
Address:	DePere WI 54115	Address:	
Phone:	920-592-8400	Phone:	
Fax:	920-592-8444	Fax:	
E-Mail:	Jeff.brand@stantec.com	PO#/Reference#	

Client	Client Project #	Preservative	methanol								
Caren Cleaners	193702865										
Project Name: Caren Cleaners		Parameter									
Project Location/State: Waupun, WI	Lab Project #										
Sampler: Jeff Brand	Lab PM										

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC								Comments
1		S27(6-8)	6-22-18	928	2	S	X								
2		S28(6-8)	↓	935	2	S	X								
3		S29(4-6)	↓	941	2	S	X								

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Stantec	6-25-18	11:00		TA-CHI	6/26/18	0900
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped Fed Ex
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

7/9/2018

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-147517-1

Login Number: 147517
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-147766-1
Client Project/Site: Care'n Cleaners - 193702865

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand

Sandie Fredrick

Authorized for release by:
7/12/2018 5:35:21 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Job ID: 500-147766-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-147766-1

Comments
No additional comments.

Receipt
The samples were received on 6/29/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW1 — Lab Sample ID: 500-147766-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.90	J	1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	51		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.84		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW2 — Lab Sample ID: 500-147766-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	68		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW3 — Lab Sample ID: 500-147766-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	32		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW4 — Lab Sample ID: 500-147766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	84		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW5 — Lab Sample ID: 500-147766-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	44		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW6 — Lab Sample ID: 500-147766-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.7		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW7 — Lab Sample ID: 500-147766-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84	J	1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	8.9		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.41	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW8 — Lab Sample ID: 500-147766-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.2		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: MW10 — Lab Sample ID: 500-147766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	9.7		1.0	0.37	ug/L	1		8260B	Total/NA

Client Sample ID: DUP — Lab Sample ID: 500-147766-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	81		1.0	0.37	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-147766-1	MW1	Water	06/27/18 10:17	06/29/18 09:00
500-147766-2	MW2	Water	06/27/18 09:58	06/29/18 09:00
500-147766-3	MW3	Water	06/27/18 10:31	06/29/18 09:00
500-147766-4	MW4	Water	06/27/18 12:03	06/29/18 09:00
500-147766-5	MW5	Water	06/27/18 12:10	06/29/18 09:00
500-147766-6	MW6	Water	06/27/18 13:22	06/29/18 09:00
500-147766-7	MW7	Water	06/27/18 12:18	06/29/18 09:00
500-147766-8	MW8	Water	06/27/18 10:47	06/29/18 09:00
500-147766-9	MW10	Water	06/27/18 12:27	06/29/18 09:00
500-147766-10	DUP	Water	06/27/18 00:00	06/29/18 09:00

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW1
Date Collected: 06/27/18 10:17
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 18:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 18:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 18:42	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 18:42	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 18:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 18:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 18:42	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 18:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 18:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 18:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 18:42	1
cis-1,2-Dichloroethene	**0.90**	**J**	1.0	0.41	ug/L			07/03/18 18:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 18:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 18:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 18:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 18:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 18:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 18:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 18:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 18:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 18:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 18:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 18:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 18:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 18:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 18:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 18:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 18:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 18:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 18:42	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 18:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 18:42	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 18:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 18:42	1
Tetrachloroethene	**51**		1.0	0.37	ug/L			07/03/18 18:42	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 18:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 18:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW1
Date Collected: 06/27/18 10:17
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 18:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 18:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 18:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 18:42	1
Trichloroethene	**0.84**		0.50	0.16	ug/L			07/03/18 18:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 18:42	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 18:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 18:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 18:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 18:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*07/03/18 18:42*	*1*
Dibromofluoromethane	*88*		*75 - 120*		*07/03/18 18:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*07/03/18 18:42*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*07/03/18 18:42*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW2
Date Collected: 06/27/18 09:58
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 19:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 19:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 19:09	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 19:09	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 19:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 19:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 19:09	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 19:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 19:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 19:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 19:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 19:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 19:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 19:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 19:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 19:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 19:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 19:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 19:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 19:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 19:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 19:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 19:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 19:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 19:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 19:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 19:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 19:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:09	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 19:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 19:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 19:09	1
Tetrachloroethene	**68**		1.0	0.37	ug/L			07/03/18 19:09	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 19:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 19:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW2
Date Collected: 06/27/18 09:58
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 19:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 19:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 19:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 19:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 19:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 19:09	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 19:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 19:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 19:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*07/03/18 19:09*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*07/03/18 19:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*		*07/03/18 19:09*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*07/03/18 19:09*	*1*

Client Sample ID: MW3
Date Collected: 06/27/18 10:31
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 19:37	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 19:37	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 19:37	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 19:37	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 19:37	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 19:37	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 19:37	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 19:37	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 19:37	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 19:37	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 19:37	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 19:37	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 19:37	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 19:37	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 19:37	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 19:37	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 19:37	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:37	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 19:37	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 19:37	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 19:37	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 19:37	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 19:37	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 19:37	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 19:37	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 19:37	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 19:37	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 19:37	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 19:37	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:37	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 19:37	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 19:37	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 19:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 19:37	1
Tetrachloroethene	**32**		1.0	0.37	ug/L			07/03/18 19:37	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 19:37	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 19:37	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW3
Date Collected: 06/27/18 10:31
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 19:37	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 19:37	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 19:37	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 19:37	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 19:37	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 19:37	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 19:37	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 19:37	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 19:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 19:37	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*07/03/18 19:37*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*07/03/18 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*07/03/18 19:37*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*07/03/18 19:37*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW4
Date Collected: 06/27/18 12:03
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 20:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 20:04	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 20:04	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 20:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 20:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 20:04	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 20:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 20:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 20:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 20:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 20:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 20:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 20:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 20:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 20:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 20:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 20:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 20:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 20:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 20:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 20:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 20:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 20:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 20:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 20:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 20:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 20:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:04	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 20:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 20:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 20:04	1
Tetrachloroethene	**84**		1.0	0.37	ug/L			07/03/18 20:04	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 20:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 20:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW4
Date Collected: 06/27/18 12:03
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 20:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 20:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 20:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 20:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 20:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:04	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 20:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 20:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 20:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*07/03/18 20:04*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*07/03/18 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*		*07/03/18 20:04*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/03/18 20:04*	*1*

Client Sample ID: MW5
Date Collected: 06/27/18 12:10
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 20:32	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 20:32	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 20:32	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 20:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 20:32	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 20:32	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 20:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 20:32	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 20:32	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 20:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 20:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 20:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 20:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 20:32	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 20:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 20:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 20:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 20:32	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 20:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 20:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 20:32	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 20:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 20:32	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 20:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 20:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 20:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 20:32	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:32	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 20:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:32	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 20:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 20:32	1
Tetrachloroethene	**44**		1.0	0.37	ug/L			07/03/18 20:32	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 20:32	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 20:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW5
Date Collected: 06/27/18 12:10
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 20:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 20:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 20:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 20:32	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 20:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:32	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 20:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:32	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 20:32	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 20:32	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*07/03/18 20:32*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*07/03/18 20:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*07/03/18 20:32*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*07/03/18 20:32*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW6
Date Collected: 06/27/18 13:22
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 20:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 20:59	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 20:59	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 20:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 20:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 20:59	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 20:59	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 20:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 20:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 20:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 20:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 20:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 20:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 20:59	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 20:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 20:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 20:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 20:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 20:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 20:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 20:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 20:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 20:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 20:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 20:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 20:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 20:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:59	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 20:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 20:59	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 20:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 20:59	1
Tetrachloroethene	**7.7**		1.0	0.37	ug/L			07/03/18 20:59	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 20:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 20:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW6
Date Collected: 06/27/18 13:22
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 20:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 20:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 20:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 20:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 20:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 20:59	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 20:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 20:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 20:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 20:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*07/03/18 20:59*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*07/03/18 20:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*07/03/18 20:59*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*07/03/18 20:59*	*1*

Client Sample ID: MW7
Date Collected: 06/27/18 12:18
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 21:27	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 21:27	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 21:27	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 21:27	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 21:27	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 21:27	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 21:27	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 21:27	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 21:27	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 21:27	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 21:27	1
cis-1,2-Dichloroethene	**0.84**	**J**	1.0	0.41	ug/L			07/03/18 21:27	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 21:27	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 21:27	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 21:27	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 21:27	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 21:27	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:27	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 21:27	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 21:27	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 21:27	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 21:27	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 21:27	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 21:27	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 21:27	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 21:27	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 21:27	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 21:27	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 21:27	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:27	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 21:27	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:27	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 21:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 21:27	1
Tetrachloroethene	**8.9**		1.0	0.37	ug/L			07/03/18 21:27	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 21:27	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 21:27	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW7
Date Collected: 06/27/18 12:18
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 21:27	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 21:27	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 21:27	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 21:27	1
Trichloroethene	**0.41**	**J**	0.50	0.16	ug/L			07/03/18 21:27	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 21:27	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 21:27	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:27	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 21:27	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 21:27	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*07/03/18 21:27*	*1*
Dibromofluoromethane	*85*		*75 - 120*		*07/03/18 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*07/03/18 21:27*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*07/03/18 21:27*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW8
Date Collected: 06/27/18 10:47
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 21:54	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 21:54	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 21:54	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 21:54	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 21:54	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 21:54	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 21:54	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 21:54	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 21:54	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 21:54	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 21:54	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 21:54	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 21:54	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 21:54	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 21:54	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 21:54	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 21:54	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:54	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 21:54	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 21:54	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 21:54	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 21:54	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 21:54	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 21:54	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 21:54	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 21:54	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 21:54	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 21:54	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 21:54	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:54	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 21:54	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 21:54	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 21:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 21:54	1
Tetrachloroethene	**2.2**		1.0	0.37	ug/L			07/03/18 21:54	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 21:54	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 21:54	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW8
Date Collected: 06/27/18 10:47
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 21:54	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 21:54	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 21:54	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 21:54	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 21:54	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 21:54	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 21:54	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 21:54	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 21:54	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 21:54	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*07/03/18 21:54*	*1*
Dibromofluoromethane	*86*		*75 - 120*		*07/03/18 21:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*07/03/18 21:54*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*07/03/18 21:54*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW10
Date Collected: 06/27/18 12:27
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 22:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 22:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 22:22	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 22:22	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 22:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 22:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 22:22	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 22:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 22:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 22:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 22:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 22:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 22:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 22:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 22:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 22:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 22:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 22:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 22:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 22:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 22:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 22:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 22:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 22:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 22:22	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 22:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 22:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 22:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:22	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 22:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:22	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 22:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 22:22	1
Tetrachloroethene	**9.7**		1.0	0.37	ug/L			07/03/18 22:22	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 22:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 22:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW10
Date Collected: 06/27/18 12:27
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 22:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 22:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 22:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 22:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 22:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 22:22	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 22:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 22:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 22:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*07/03/18 22:22*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*07/03/18 22:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*		*07/03/18 22:22*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*07/03/18 22:22*	*1*

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: DUP
Date Collected: 06/27/18 00:00
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 22:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 22:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 22:49	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 22:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 22:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 22:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 22:49	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 22:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 22:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 22:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 22:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 22:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 22:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 22:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 22:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 22:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 22:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 22:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 22:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 22:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 22:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 22:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 22:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 22:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 22:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 22:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 22:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 22:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:49	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 22:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 22:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 22:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 22:49	1
Tetrachloroethene	**81**		1.0	0.37	ug/L			07/03/18 22:49	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 22:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 22:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: DUP
Date Collected: 06/27/18 00:00
Date Received: 06/29/18 09:00

Lab Sample ID: 500-147766-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 22:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 22:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 22:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 22:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 22:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 22:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 22:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 22:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 22:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 22:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*07/03/18 22:49*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*07/03/18 22:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 126*		*07/03/18 22:49*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*07/03/18 22:49*	*1*

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

GC/MS VOA

Analysis Batch: 439613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147766-1	MW1	Total/NA	Water	8260B	
500-147766-2	MW2	Total/NA	Water	8260B	
500-147766-3	MW3	Total/NA	Water	8260B	
500-147766-4	MW4	Total/NA	Water	8260B	
500-147766-5	MW5	Total/NA	Water	8260B	
500-147766-6	MW6	Total/NA	Water	8260B	
500-147766-7	MW7	Total/NA	Water	8260B	
500-147766-8	MW8	Total/NA	Water	8260B	
500-147766-9	MW10	Total/NA	Water	8260B	
500-147766-10	DUP	Total/NA	Water	8260B	
MB 500-439613/7	Method Blank	Total/NA	Water	8260B	
LCS 500-439613/5	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-147766-1	MW1	102	88	86	102
500-147766-2	MW2	100	86	89	101
500-147766-3	MW3	100	85	85	100
500-147766-4	MW4	103	86	83	103
500-147766-5	MW5	99	86	85	100
500-147766-6	MW6	99	85	86	100
500-147766-7	MW7	100	85	85	102
500-147766-8	MW8	100	86	87	101
500-147766-9	MW10	101	87	87	101
500-147766-10	DUP	98	87	85	103
LCS 500-439613/5	Lab Control Sample	98	86	86	102
MB 500-439613/7	Method Blank	99	87	86	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-439613/7
Matrix: Water
Analysis Batch: 439613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/03/18 15:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/03/18 15:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/03/18 15:04	1
Bromoform	<0.48		1.0	0.48	ug/L			07/03/18 15:04	1
Bromomethane	<0.80		2.0	0.80	ug/L			07/03/18 15:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/03/18 15:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/03/18 15:04	1
Chloroform	<0.37		2.0	0.37	ug/L			07/03/18 15:04	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/03/18 15:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/03/18 15:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/03/18 15:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/03/18 15:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/03/18 15:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/03/18 15:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/03/18 15:04	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/03/18 15:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/03/18 15:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/03/18 15:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			07/03/18 15:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/03/18 15:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/03/18 15:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/03/18 15:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/03/18 15:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/03/18 15:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/03/18 15:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/03/18 15:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/03/18 15:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/03/18 15:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/03/18 15:04	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 15:04	1
Styrene	<0.39		1.0	0.39	ug/L			07/03/18 15:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/03/18 15:04	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/03/18 15:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/03/18 15:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/03/18 15:04	1
Toluene	<0.15		0.50	0.15	ug/L			07/03/18 15:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/03/18 15:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-439613/7
Matrix: Water
Analysis Batch: 439613

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/03/18 15:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/03/18 15:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/03/18 15:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/03/18 15:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/03/18 15:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/03/18 15:04	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			07/03/18 15:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/03/18 15:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/03/18 15:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/03/18 15:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/03/18 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*07/03/18 15:04*	*1*
Dibromofluoromethane	*87*		*75 - 120*		*07/03/18 15:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*07/03/18 15:04*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*07/03/18 15:04*	*1*

Lab Sample ID: LCS 500-439613/5
Matrix: Water
Analysis Batch: 439613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	53.8		ug/L		108	70 - 120
Bromobenzene	50.0	51.9		ug/L		104	70 - 122
Bromochloromethane	50.0	49.5		ug/L		99	65 - 122
Bromodichloromethane	50.0	50.4		ug/L		101	69 - 120
Bromoform	50.0	48.8		ug/L		98	56 - 132
Bromomethane	50.0	56.1		ug/L		112	40 - 130
Carbon tetrachloride	50.0	50.9		ug/L		102	65 - 122
Chlorobenzene	50.0	51.8		ug/L		104	70 - 120
Chloroethane	50.0	53.3		ug/L		107	45 - 127
Chloroform	50.0	48.3		ug/L		97	70 - 120
Chloromethane	50.0	61.4		ug/L		123	54 - 147
2-Chlorotoluene	50.0	55.0		ug/L		110	70 - 125
4-Chlorotoluene	50.0	53.3		ug/L		107	68 - 124
cis-1,2-Dichloroethene	50.0	52.5		ug/L		105	70 - 125
cis-1,3-Dichloropropene	50.0	55.7		ug/L		111	64 - 127
Dibromochloromethane	50.0	52.5		ug/L		105	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	56 - 123
1,2-Dibromoethane	50.0	55.5		ug/L		111	70 - 125
Dibromomethane	50.0	53.4		ug/L		107	70 - 120
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 125
1,3-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 125
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 120
Dichlorodifluoromethane	50.0	62.9		ug/L		126	40 - 150
1,1-Dichloroethane	50.0	56.0		ug/L		112	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-439613/5
Matrix: Water
Analysis Batch: 439613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	49.9		ug/L		100	68 - 127
1,1-Dichloroethene	50.0	56.3		ug/L		113	67 - 122
1,2-Dichloropropane	50.0	58.6		ug/L		117	67 - 130
1,3-Dichloropropane	50.0	56.3		ug/L		113	62 - 136
2,2-Dichloropropane	50.0	52.4		ug/L		105	58 - 129
1,1-Dichloropropene	50.0	55.1		ug/L		110	70 - 121
Ethylbenzene	50.0	56.5		ug/L		113	70 - 120
Hexachlorobutadiene	50.0	50.0		ug/L		100	51 - 150
Isopropylbenzene	50.0	57.3		ug/L		115	70 - 126
Methylene Chloride	50.0	50.8		ug/L		102	69 - 125
Methyl tert-butyl ether	50.0	43.2		ug/L		86	70 - 120
Naphthalene	50.0	49.9		ug/L		100	59 - 130
n-Butylbenzene	50.0	60.4		ug/L		121	68 - 125
N-Propylbenzene	50.0	59.2		ug/L		118	69 - 127
p-Isopropyltoluene	50.0	55.4		ug/L		111	70 - 125
sec-Butylbenzene	50.0	58.9		ug/L		118	70 - 123
Styrene	50.0	53.6		ug/L		107	70 - 120
tert-Butylbenzene	50.0	55.2		ug/L		110	70 - 121
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/L		96	70 - 125
1,1,2,2-Tetrachloroethane	50.0	62.8		ug/L		126	67 - 127
Tetrachloroethene	50.0	57.2		ug/L		114	70 - 128
Toluene	50.0	57.6		ug/L		115	70 - 125
trans-1,2-Dichloroethene	50.0	55.2		ug/L		110	70 - 125
trans-1,3-Dichloropropene	50.0	52.9		ug/L		106	62 - 128
1,2,3-Trichlorobenzene	50.0	46.1		ug/L		92	55 - 140
1,2,4-Trichlorobenzene	50.0	47.5		ug/L		95	66 - 127
1,1,1-Trichloroethane	50.0	55.1		ug/L		110	70 - 125
1,1,2-Trichloroethane	50.0	56.6		ug/L		113	70 - 122
Trichloroethene	50.0	54.0		ug/L		108	70 - 125
Trichlorofluoromethane	50.0	47.1		ug/L		94	70 - 126
1,2,3-Trichloropropane	50.0	59.5		ug/L		119	50 - 133
1,2,4-Trimethylbenzene	50.0	53.8		ug/L		108	70 - 123
1,3,5-Trimethylbenzene	50.0	55.0		ug/L		110	70 - 123
Vinyl chloride	50.0	49.2		ug/L		98	64 - 126
Xylenes, Total	100	104		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*86*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW1
Lab Sample ID: 500-147766-1
Date Collected: 06/27/18 10:17
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 18:42	JJH	TAL CHI

Client Sample ID: MW2
Lab Sample ID: 500-147766-2
Date Collected: 06/27/18 09:58
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 19:09	JJH	TAL CHI

Client Sample ID: MW3
Lab Sample ID: 500-147766-3
Date Collected: 06/27/18 10:31
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 19:37	JJH	TAL CHI

Client Sample ID: MW4
Lab Sample ID: 500-147766-4
Date Collected: 06/27/18 12:03
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 20:04	JJH	TAL CHI

Client Sample ID: MW5
Lab Sample ID: 500-147766-5
Date Collected: 06/27/18 12:10
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 20:32	JJH	TAL CHI

Client Sample ID: MW6
Lab Sample ID: 500-147766-6
Date Collected: 06/27/18 13:22
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 20:59	JJH	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Client Sample ID: MW7
Lab Sample ID: 500-147766-7
Date Collected: 06/27/18 12:18
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 21:27	JJH	TAL CHI

Client Sample ID: MW8
Lab Sample ID: 500-147766-8
Date Collected: 06/27/18 10:47
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 21:54	JJH	TAL CHI

Client Sample ID: MW10
Lab Sample ID: 500-147766-9
Date Collected: 06/27/18 12:27
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 22:22	JJH	TAL CHI

Client Sample ID: DUP
Lab Sample ID: 500-147766-10
Date Collected: 06/27/18 00:00
Matrix: Water
Date Received: 06/29/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	439613	07/03/18 22:49	JJH	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Care'n Cleaners - 193702865

TestAmerica Job ID: 500-147766-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-147766 COC

(optional)

Report To
Contact: Jeff Brand
Company: Stantec
Address: 1165 Scheuring Rd
Address: DePere WI 54115
Phone: 920-592-8400
Fax: 920-592-8444
E-Mail: Jeff.brand@stantec.com

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-147766

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.8

Client	Client Project #
Caser Cleaners	193702865
Project Name: Caser Cleaners	
Project Location/State: Waupun WI	Lab Project #
Sampler: Jeff Brand	Lab PM

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: HCL	Parameter: VOC	Comments
1		MW1	6-27-18	1017	3	W	X		
2		MW2		958	3	W	X		
3		MW3		1031	3	W	X		
4		MW4		1203	3	W	X		
5		MW5		1210	3	W	X		
6		MW6		1322	3	W	X		
7		MW7		1218	3	W	X		
8		MW8		1047	3	W	X		
9		MW10		1227	3	W	X		
10		DUP			3	W	X		

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Stantec	6-28-18	9:00	[signature]	TA-ARL	6/29/18	0980
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped: Fed X
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-147766-1

Login Number: 147766
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	