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June 3, 2015

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Subject: **Brownfield's Property Assessment (Brownfield's Project Number: 18028-14-034), Located at 955 Brookstown Avenue, Winston-Salem, North Carolina**

Mr. Rudder:

Piedmont Industrial Services was contracted by Commercial Realty Advisors, LLC (managing partner) of Fourth Street Ventures LLC (property developer) to complete the approved January 2015 Brownfields Property Site Work Plan for Brownfields Project Number: 18028-14-034. A copy of the June 3, 2015 report is attached for the Brownfields assessment

If you have any questions or require additional information, please contact Piedmont Industrial Services at (336) 722-6505.

Best Regards,

Piedmont Industrial Services, Inc.

Tom Lennon, P.G.
Principal Geologist

Cc; John Reece, Commercial Realty Advisors

Brownfields Property Assessment
Brownfield Project Number: 18028-14-034, Located at 955 Brookstown Avenue
Winston-Salem, North Carolina

June 3, 2015

Prepared For:

Commercial Realty Advisors, LLC

Prepared By:

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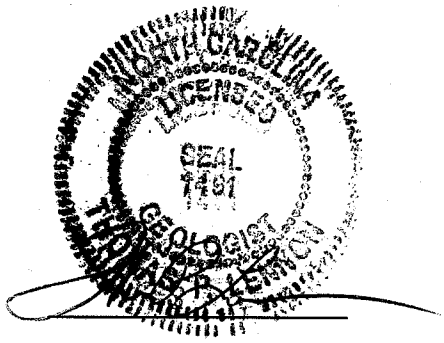

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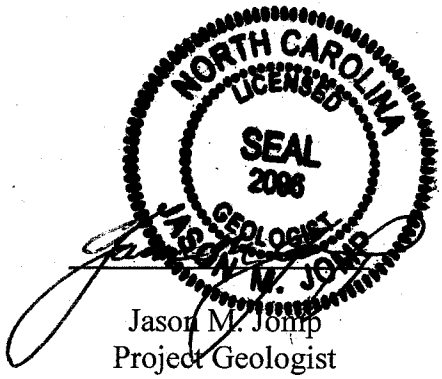


Jason M. Jonp
Project Geologist

Introduction

Piedmont Industrial Services (Piedmont) was contracted by Commercial Realty Advisors, LLC (managing partner) of Fourth Street Ventures LLC (property developer) to complete the site assessment activities in accordance with Piedmont's January 2015 NCDENR approved Brownfields Property Site Work Plan for Brownfields Project Number: 18028-14-034. This report also contains the results for additional vapor testing conducted by Piedmont as requested by the NCDENR on April 21,2015.

Environmental Assessment on Former Fritts and Graybar properties

Soil Assessment

As indicated in the ECS 2007 Report of Environmental Services, TPH concentrations were detected above the state action level in five soil samples collected at the former Fritts Motor Company in the immediate vicinity of the former UST basin (NCDENR-DWM UST Incident number 44494). According to the ECS 2008 Phase I LSA, soil samples collected from a temporary monitoring well installation from depths of 10-30 feet exhibited several petroleum compounds above their established NCDENR Soil-to-Groundwater MSCCs after being analyzed by EPA Method 8260. With the exception of MADEP EPH/VPH, none of the targeted compounds by EPA method 8260 were detected above their respective NCDENR residential MSCCs. Information from these reports is contained in Appendix F.

In February 2015, Piedmont Industrial mobilized to the site to install four Geo-Probe borings to collect soil and groundwater samples for laboratory testing to determine VOCs and SVOCs concentrations around the perimeter of the subject property. Additionally, six Geo-Probe borings were installed to collect soil samples for laboratory testing to determine VOCs and SVOCs concentrations at the former Fritts Motor Company Property in the vicinity of the former gasoline UST basin to collect additional analytical data in regard to existing soil impact. Soil borings were completed using a Geo-Probe direct push drill rig and soil samples were collected with a dual tube sampler. All samples were collected in accordance with the Technical Methods in Appendix A. Boring Logs are contained in Appendix B.

From soil borings (SW1 through SW4) one soil sample was collected to be analyzed by EPA Methods 8260 and 8270. A site map of sampling locations is presented in Figure 1. The collected soil samples were decanted into laboratory prepared jars and delivered to Research & Analytical (R&A) Laboratories (NC ID # 34) in Kernersville, North Carolina for laboratory analysis. A summary of soil sampling results is presented in Table 1. Analytical lab reports are contained in Appendix C.

As seen in Table 1, no targeted compounds were detected in the soil samples collected from perimeter borings SW1, SW2, SW3 and SW4.

Soil borings (SB1 through SB6) were installed at the former Fritts Motor Company Property in the vicinity of the former gasoline UST basin to delineate petroleum impacts. From soil borings (SB1 through SB6) two soil samples were collected to be analyzed by EPA Methods 8260 and 8270 (total of 12 samples- 2 per boring). The collected soil samples were decanted into laboratory prepared jars and delivered to Research & Analytical (R&A) Laboratories (NC ID # 34) in Kernersville, North Carolina for laboratory analysis.

A summary of soil sampling results is presented in Table 1. Analytical lab reports are contained in Appendix C.

As seen in Table 1, targeted compounds were detected in the soil samples collected from borings SB1 through SB6. Petroleum impacted soil was detected from approximately 3-25 feet below surface grade (bsg). However, the detected concentrations of the targeted compounds were well below their respective residential MSCCs. Remaining petroleum impacts will be required to be denoted on the Brownfield Plat Map along with any corresponding land use restrictions. The remaining soil impacts should be a consideration in preparation and implementation of the Environmental Management Plan (EMP).

Groundwater Assessment

As indicated in the ECS 2007 Report of Environmental Services and the ECS 2008 Phase I LSA, collected groundwater samples had detections of several compounds above the NCDENR 15A NCAC 2L standards. However, no compounds were detected above their Gross Contamination Levels for Groundwater (GCL). Analytical data from these reports are contained in Appendix F. To further delineate existing groundwater impacts Piedmont completed the following assessment activities.

Groundwater samples were collected from the perimeter borings SW1 through SW3. One groundwater sample was collected from boring SW4 located on the former Graybar property in the immediate vicinity of former monitoring well TW-3 to determine the presence of Tetrachloroethene. Additionally, one groundwater sample was collected from boring SB6 on the for Fritts Motor Company Property to determine if petroleum or chlorinated solvent impacts occurred.

Samples SW1 through SW4 and SB6 were collected with a Geo-Probe groundwater sampler. The collected groundwater samples were decanted into laboratory prepared jars and delivered to Research & Analytical (R&A) Laboratories (NC ID # 34) in Kernersville, North Carolina for laboratory analysis for VOCs and SVOCs by EPA Methods 8260 and 8270. A summary of groundwater sampling results and approximate depth to groundwater is presented in Table 2. Analytical lab reports are contained in Appendix C.

As seen in Table 2, no targeted compounds were detected in the groundwater samples collected from borings SW1, SW2, SW3. Tetrachloroethene was detected in groundwater samples from SW4 at a concentration of 25.80 ug/L and SB6 at a concentration of 3.55 ug/L which is above the NCAC 2L Standard of 0.7 ug/L. No other compounds were detected in these samples above NCAC 2L Standards.

Soil Vapor Intrusion Assessment

Based on the previous groundwater analytical data from the 2007 and 2008 ECS assessment activities, seven compounds exceeded one order of magnitude greater than established Groundwater Screening Levels. As a result, Piedmont installed vapor monitoring points to delineate if there are any environmental concerns that would prohibit the intended reuse of the subject property.

From February 25 through March 6, 2015, four soil vapor monitoring points (VP-1 through VP-4) were installed at the site (see Figure 1). VP-1 and VP-4 were installed on the former Fritts property. Vapor points VP-2 and VP-3 were installed on Graybar property. Vapor

monitoring points VP-3 and VP-4 are subslab points installed utilizing a Vapor Pin™. Vapor monitoring point VP-1 was installed outside of the former UST basin on the former Fritts property at a depth of eight feet utilizing a Geo-probe vapor implant. Vapor monitoring point VP-2 was installed in the immediate vicinity of temporary monitoring well TW-3 on the former Graybar property at a depth of eight feet utilizing a Geo-probe vapor implant.

On March 9, 2015, Piedmont mobilized to the site to collect soil vapor samples. Field data is contained in Table 3. All soil vapor samples were collected using laboratory prepared one liter summa canisters with a tracer gas (helium) used for leak detection. The leak detection setup utilized a stainless steel dome which was fitted with ports for tracer gas injection. A GasCheck G3 helium detector was utilized to validate the integrity of the vapor point installation procedure prior to the sample collection process. Sampling methods are contained in Appendix D. No helium tracer gas was detected during the leak detection process prior to sampling in vapor monitoring points VP-1 through VP-4. Soil vapor samples (VP-1 through VP-4) were then collected using laboratory prepared one liter summa canisters. The samples were shipped using chain-of-custody protocol to Centek Laboratories, LLC in Syracuse, New York for analysis. The samples were analyzed by Method TO-15.

The results of the soil vapor monitoring are summarized on Table 4 with the Residential Vapor Intrusion Screening Levels (RVISL) and non- Residential Vapor Intrusion Screening Levels (NRVISL) provided for comparison. As the analytical data indicates, the laboratory results for soil vapor samples VP-1, VP-3, and VP-4 are all below the RVISL. The sampling and analysis of soil vapor sample VP-2 reported a concentration of tetrachloroethene of 27,000 ug/m3 with the RVISL established at 278 ug/m3 and NRVISL established at 3,500 ug/m3. No other targeted compounds were detected in vapor sample VP-2 above their respective RVISL.

To verify the VP-2 result, soil vapor monitoring points VP-5, VP-6 and VP-7 were installed approximately 10 feet east, west and south of vapor monitoring point VP-2 as requested by the NCDENR-Brownfields Section on April 21, 2015 (see Figure 1). Soil vapor monitoring points VP-5, VP-6 and VP-7 were installed at a depth of eight feet utilizing a Geo-Probe vapor implant. Based on the results of vapor sample VP-2, Piedmont expected similar results on the requested vapor point sampling since they were only approximately 10 feet away from VP-2.

On May 4, 2015, Piedmont mobilized to the site to collect soil vapor samples from soil vapor monitoring points VP-5, VP-6 and VP-7. Field data is contained in Table 3. All soil vapor samples were collected using laboratory prepared one liter summa canisters with a tracer gas (helium) used for leak detection. The leak detection setup utilized a stainless steel dome which was fitted with ports for tracer gas injection. A GasCheck G3 helium detector was utilized to validate the integrity of the vapor point installation procedure prior to the sample collection process. Sampling methods are contained in Appendix D. No helium tracer gas was detected during the leak detection process prior to sampling in vapor monitoring points VP-5 through VP-7. Soil vapor samples (VP-5 through VP-7) were then collected using laboratory prepared one liter summa canisters. The samples were shipped

using chain-of-custody protocol to Centek Laboratories, LLC in Syracuse, New York for analysis. The samples were analyzed by Method TO-15.

The results of the soil vapor monitoring are summarized on Table 4 with the Residential Vapor Intrusion Screening Levels (RVISL) and non- Residential Vapor Intrusion Screening Levels (NRVISL)provided for comparison. As the analytical data indicates, the laboratory results for soil vapor samples VP-5, VP-6, and VP-7 reported a concentration of tetrachloroethene of 28,000 ug/m3 in VP-5, 18,000 ug/m3 in VP-6 and 18,000 ug/m3 in VP-7. The reported concentrations of tetrachloroethene in these three samples are above the RVISL established at 278 ug/m3 and NRVISL established at 3,500 ug/m3. No other targeted compounds were detected in vapor samples VP-5, VP-6 and VP-7 above their respective RVISL.

A copy of the laboratory reports provided by Centek Laboratories, LLC is provided in Appendix E.

Conclusions

Based on the review of past and current analytical data, it is Piedmont's opinion that the intended reuse of the subject property is safe provided that the following items are denoted on the Brownfield Plat Map along with any corresponding land use restrictions and taken into consideration in preparation and implementation of the Environmental Management Plan (EMP).

Based on historical records and environmental data collected, petroleum impacts evidenced on the subject property are the results of the former UST release (Incident # 44494).

Based on the environmental site assessment data included in the Brownfields Property Application and in the reports referenced in the application, the on-site chlorinated solvent concentrations in groundwater and soil vapor appear to have an off-site source, which is evident from the current soil sample analytical results not showing chlorinated solvent impacts from any of the surrounding sampling locations on the subject property.

Piedmont's current investigation has revealed the following:

<u>Soil Assessment</u>

- No targeted compounds were detected in the soil samples collected from perimeter borings SW1, SW2, SW3 and SW4.
- Targeted compounds were detected in the soil samples collected from borings SB1 through SB6 on the former Fritts Motor Company Property. However, the detected concentrations of the targeted compounds were well below their respective residential MSCCs.
- Petroleum impacted soil was detected from approximately 3-25 feet below surface grade (bsg). Based on the presence of these petroleum related compounds at the former Fritts Motor Company, the remaining petroleum impacts will be required to

be denoted on the Brownfield Plat Map along with any corresponding land use restrictions. The remaining soil impacts should be a consideration in preparation and implementation of the EMP.

Groundwater Assessment

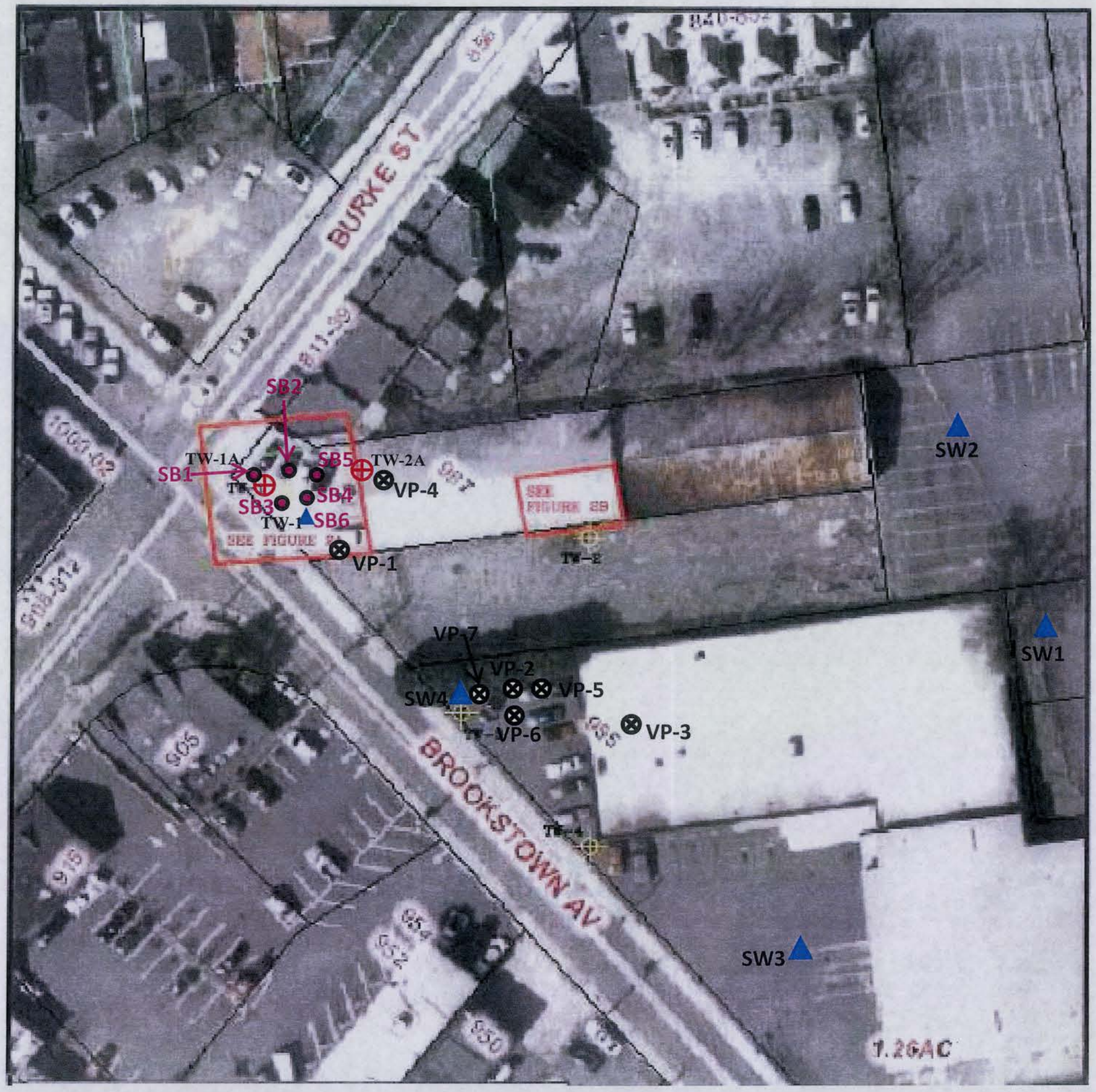
- No targeted compounds were detected in the groundwater samples collected from borings SW1, SW2, SW3. Tetrachloroethene was detected in groundwater samples from SW4 at a concentration of 25.80 ug/L and SB6 at a concentration of 3.55 ug/L which is above the NCAC 2L Standard of 0.7 ug/L. No other compounds were detected in these samples above NCAC 2L Standards.

Soil Vapor Intrusion Assessment

- As the analytical data indicates, the laboratory results for soil vapor samples VP-1, VP-3, and VP-4 are all below the RVISL.
- The sampling and analysis of soil vapor sample VP-2 reported a concentration of tetrachloroethene of 27,000 ug/m3 with the RVISL established at 278 ug/m3 and NRVISL established at 3,500 ug/m3. No other targeted compounds were detected in vapor sample VP-2 above their respective RVISL.
- To verify the VP-2 result, soil vapor monitoring points VP-5, VP-6 and VP-7 were installed approximately 10 feet east, west and south of vapor monitoring point VP-2 as requested by the NCDENR-Brownfields Section on April 21, 2015.
- As the analytical data indicates, the laboratory results for soil vapor samples VP-5, VP-6, and VP-7 reported a concentration of tetrachloroethene of 28,000 ug/m3 in VP-5, 18,000 ug/m3 in VP-6 and 18,000 ug/m3 in VP-7. The reported concentrations of tetrachloroethene in these three samples are above the RVISL established at 278 ug/m3 and NRVISL established at 3,500 ug/m3. No other targeted compounds were detected in vapor samples VP-5, VP-6 and VP-7 above their respective RVISL.

Based on the review of past and current analytical data, it is Piedmont's opinion that the property is safe for reuse following that soil, groundwater and soil vapor impacts from previous and current assessment activities are documented on the land use restrictions in the brownfields agreement and included on the environmental management plan. The necessity for installation of engineering controls for the mitigation of soil vapors evidenced in areas where tetrachloroethene was detected in concentrations exceeding Residential Vapor Intrusion Screening Levels (RVISL) may be required by the NCDENR prior to the intended reuse of the subject property.

Figures



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North

Legend:

- Approximate location of soil and groundwater sample
- Approximate soil vapor monitoring points
- Approximate soil boring/sampling location
- ECS Phase I LSA temporary monitoring well approximate location
- Temporary monitoring wells installed by ECS in 2007

Figure 1: Aerial Photograph Depicting Site Layout and Sample locations

Approximate Scale in feet:

0 — 60

Tables

TABLE 1

Date: 3/23/15

SUMMARY OF SOIL SAMPLING RESULTS

Analytical Method			EPA METHOD 8260 (mg/kg)									
SAMPLE ID	DEPTH	Date	N-Butylbenzene	Sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	Naphthalene	N-propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All other Targeted Compounds
SW1-10-15	10-15	2/23/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW2-10-15	10-15	2/23/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW3-5-10	5-10	2/23/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW4-8-10	8-10	2/27/2015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SB1-8-10	8-10	2/25/2015	**6.03**	3.16	**20.80**	**6.16**	**15.90**	**13.00**	6.84	BQL	**7.67**	BQL
SB1-15-17	15-17	2/25/2015	**4.96**	2.54	**12.00**	**4.65**	**23.70**	**9.38**	**56.10**	**38.30**	**66.70**	BQL
SB2-3-5	3-5	2/25/2015	2.51	BQL	**7.87**	**2.23**	**8.79**	**6.06**	**30.90**	**22.50**	**17.70**	BQL
SB2-15-17	15-17	2/25/2015	3.16	1.39	3.69	**2.13**	**20.00**	**4.50**	**33.50**	**24.40**	**25.90**	BQL
SB3-15-17	15-17	2/25/2015	3.85	2.32	**6.35**	**2.94**	**15.90**	**5.84**	**39.30**	**27.60**	**24.60**	BQL
SB3-23-25	23-25	2/25/2015	**5.85**	**3.95**	**21.10**	**6.77**	**27.70**	**12.30**	**71.50**	**51.90**	**84.90**	BQL
SB4-15-17	15-17	2/25/2015	0.868	0.437	0.492	0.346	**4.23**	0.922	6.73	3.90	2.01	BQL
SB4-23-25	23-25	2/25/2015	2.45	1.50	1.88	1.34	**10.70**	**2.77**	**22.30**	**13.90**	**12.00**	BQL
SB5-2-5	2-5	2/25/2015	1.83	1.12	1.23	0.977	**5.32**	**2.07**	5.43	4.06	0.880	BQL
SB5-15-17	15-17	2/25/2015	2.07	1.06	1.67	0.953	**7.95**	**1.93**	**16.60**	**11.10**	**7.95**	BQL
SB6-15-17	15-17	2/25/2015	BQL	BQL	BQL	BQL	0.036	BQL	0.029	0.015	0.014	BQL
SB6-23-25	23-25	2/25/2015	0.372	BQL	BQL	BQL	1.21	BQL	2.01	1.04	BQL	BQL
Soil to Groundwater MSCC			4.3	3.3	4.90	1.7	0.16	1.7	8.5	8.3	4.6	NS
Residential MSCC			626	626	1,560	1,564	313	626	782	782	3,129	NS
Comercial MSCC			16,350	16,350	40,000	40,880	8,176	16,350	20,440	20,440	81,760	NS

Bold=above soil to GW MSCC

Nothing above residential

TABLE1(cont.)

Date: 3/23/15

SUMMARY OF SOIL SAMPLING RESULTS

Analytical Method			EPA Method 8270			
SAMPLE ID	DEPTH	Date	1-Methyl Naphthalene (mg/kg)	2-Methyl Naphthalene (mg/kg)	Naphthalene (mg/kg)	All other Targeted Compounds (mg/kg)
SW1-10-15	10-15	2/23/2015	BQL	BQL	BQL	BQL
SW2-10-15	10-15	2/23/2015	BQL	BQL	BQL	BQL
SW3-5-10	5-10	2/23/2015	BQL	BQL	BQL	BQL
SW4-8-10	8-10	2/27/2015	BQL	BQL	BQL	BQL
SB1-8-10	8-10	2/25/2015	**3.77**	**7.53**	**12.60**	BQL
SB1-15-17	15-17	2/25/2015	BQL	**3.75**	**10.50**	BQL
SB2-3-5	3-5	2/25/2015	**0.348**	0.736	**1.80**	BQL
SB2-15-17	15-17	2/25/2015	BQL	BQL	**5.79**	BQL
SB3-15-17	15-17	2/25/2015	BQL	**5.75**	**7.41**	BQL
SB3-23-25	23-25	2/25/2015	**5.29**	**13.20**	**20.20**	BQL
SB4-15-17	15-17	2/25/2015	BQL	**3.52**	**3.76**	BQL
SB4-23-25	23-25	2/25/2015	BQL	**4.57**	**5.59**	BQL
SB5-2-5	2-5	2/25/2015	**0.462**	1.04	**0.932**	BQL
SB5-15-17	15-17	2/25/2015	BQL	0.635	**0.800**	BQL
SB6-15-17	15-17	2/25/2015	BQL	BQL	BQL	BQL
SB6-23-25	23-25	2/25/2015	**0.667**	1.30	**0.600**	BQL
Soil to Groundwater MSCC			0.004	3.60	0.16	NS
Residential MSCC			20	63	313	NS
Comercial MSCC			100	1,635	8,176	NS

Bold=above soil to GW MSCC

Nothing above residential

Table 2: Groundwater Analytical
955 Brookstown Avenue
Winston-Salem, NC

Analytical Method			Volatile Organics (EPA METHOD 8260 (ug/L))						SVOC 8270 (ug/L)		
SAMPLE ID	Date	Approx. Depth to Groundwater (ft.-bgs)	benzene	Isopropyl ether	ethylbenzene	1,2,4-Trimethylbenzene	Total Xylenes	Tetrachloroethene (PCE)	Napthalene	Lead	All Other Targeted Compounds
SW1	2/23/2015	33.41	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW2	2/23/2015	34.55	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW3	2/23/2015	19.00	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
SW4	2/27/2015	22.80	BQL	BQL	BQL	BQL	BQL	**25.80**	BQL	BQL	BQL
SB6	2/25/2015	30.55	BQL	BQL	BQL	0.70	BQL	**3.55**	BQL	BQL	BQL
2L Standards			1	70	600	400	500	0.7	6	15	NA
GCLs			5,000	70,000	84,500	28,500	85,500	700	6,000	15,000	NA

Bold=exceeds NCAC 2L Standards

Table 3: 955 Brookstown Vapor Sampling Information

Vapor Point	Installation date	Depth	Sample Date	PID reading/ ppm	Intial GasCheck reading ppm before helium	GasCheck sensitivity	GasCheck reading ppm during and after helium tracer gas was added	Sample Start time	Vacuum start	Sample Stop time	Vacuum stop	Weather/ Temp	Relative Humidity
VP-1	2/25/2015	8	3/9/2015	0	10,000	x1	10,000 no spike observed	939	-30"Hg	1028	-3.0"Hg	clear 56 degrees Fahrenheit	44%
VP-2	2/27/2015	8	3/9/2015	0.2	1220	x100	1,220 no spike observed	917	-28"Hg	1001	0"Hg	clear 56 degrees Fahrenheit	44%
VP-3	3/6/2015	subslab	3/9/2015	0	1270	x100	1,270 no spike observed	856	-29"Hg	946	0"Hg	clear 56 degrees Fahrenheit	44%
VP-4	3/6/2015	subslab	3/9/2015	0	2600	x100	2,600 no spike observed	1049	-29"Hg	1142	-1.5"Hg	clear 56 degrees Fahrenheit	44%
VP-5	4/29/2015	8	5/4/2015	0	580	x100	580 no spike observed	953	-30"Hg	1043	-2.5"Hg	clear 64 degrees Fahrenheit	66%
VP-6	4/29/2015	8	5/4/2015	1.2	620	x100	620 no spike observed	1006	-29"Hg	1058	-1.5"Hg	clear 64 degrees Fahrenheit	66%
VP-7	4/29/2015	8	5/4/2015	15.1	3000	x1	3,000 no spike observed	1020	-30"Hg	1112	-1.0"Hg	clear 64 degrees Fahrenheit	66%

Table 4: Vapor Analytical Results
955 Brookstown
Winston-Salem, NC
5/28/15

Analytical Method			TO-15 (ug/m3)										
Vapor Point	Depth	Sample Date	1,1-Dichloroethene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-trimethylpentane	4-ethyltoluene	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Carbon tetrachloride
VP-1	8	3/9/2015	ND	6.9	ND	ND	0.70	ND	19	1.1	ND	0.56	.69j
VP-2*	8	3/9/2015	ND	ND	ND	ND	ND	ND	16	ND	ND	26	ND
VP-3	subslab	3/9/2015	ND	0.87	6.8	2.0	1.9	1.9	20	1.8	1.2	ND	ND
VP-4	subslab	3/9/2015	ND	4.1	3.6	1.3	1.0	1.5	25	1.6	.80j	ND	ND
VP-5	8	5/4/2015	.48j	ND	3.0	1.2	.56j	1.1	4.7	2.2	ND	16	ND
VP-6	8	5/4/2015	ND	ND	1.9	0.98	1.1	0.59j	5.8	1.1	ND	6.1	ND
VP-7	8	5/4/2015	ND	ND	0.98	ND	ND	ND	3.7	0.67	ND	3.0	ND
DWM residential Vapor Intrusion Screening Levels			1,390	34,800	48.7	NS	NS	NS	216,000	120	25.3	4,870	156
DWM non-residential Vapor Intrusion Screening Levels			17,500	438,000	613	NS	NS	NS	2,720,000	1,570	331	61,300	2,040

Analytical Method			TO-15 (ug/m3)										
Vapor Point	Depth	Sample Date	Chloroform	cis-1,2-Dichloroethene	1,4-Dioxane	Cyclohexane	Ethyl acetate	Ethylbenzene	Freon 11	Freon 113	Freon 12	Heptane	Hexane
VP-1	8	3/9/2015	ND	2.9	ND	ND	ND	ND	1.6	.77j	3.5	0.61	1.3
VP-2*	8	3/9/2015	9.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VP-3	subslab	3/9/2015	7.1	ND	ND	2.2	ND	3.3	4.6	.84j	17	ND	ND
VP-4	subslab	3/9/2015	35	2.1	0.50j	1.3	3.6	4.0	1.9	1.1	3.5	ND	ND
VP-5	8	5/4/2015	1.6	ND	ND	ND	ND	1.6	3.7	6.2	ND	7.5	4.6
VP-6	8	5/4/2015	1.3	ND	ND	ND	1.9	1.2	5.6	9.7	ND	6.8	3.7
VP-7	8	5/4/2015	2.2	ND	ND	ND	ND	0.65	4.7	9.2	ND	2.4	1.4
DWM residential Vapor Intrusion Screening Levels			40.7	NS	NS	41,700	487	374	NS	NS	NS	NS	4,870
DWM non-residential Vapor Intrusion Screening Levels			533	NS	NS	526,000	6,130	4,910	NS	NS	NS	NS	61,300

Analytical Method			TO-15 (ug/m3)											
Vapor Point	Depth	Sample Date	Isopropyl alcohol	m&p-Xylene	Methyl Ethyl Ketone	Methyl Isobutyl Ketone	Methylene chloride	o-Xylene	Styrene	Tetrachloroethylene	Tetrahydrofuran	Toluene	Trichloroethene	Vinyl Chloride
VP-1	8	3/9/2015	7.9	0.69j	2.4	ND	0.90	ND	ND	ND	ND	3.1	ND	ND
VP-2*	8	3/9/2015	ND	ND	ND	ND	ND	ND	ND	**27,000**	ND	4.5j	ND	ND
VP-3	subslab	3/9/2015	13	14	9.4	ND	1.6	4.5	1.2	130	12	16	ND	ND
VP-4	subslab	3/9/2015	13	16	8.8	ND	1.4	4.8	1.1	130	10	12	ND	ND
VP-5	8	5/4/2015	ND	4.2	5.7	ND	ND	1.6	ND	**28,000****	ND	5.7	5.2	ND
VP-6	8	5/4/2015	ND	3.3	1.0	3.3	ND	1.1	ND	**18,000****	ND	6.1	4.7	1.2
VP-7	8	5/4/2015	ND	1.7	4.7	ND	ND	0.96	ND	**18,000****	2.0	3.2	1.7	ND
DWM residential Vapor Intrusion Screening Levels			NS	695	34,800	20,900	4,170	695	6,950	278	13,900	34,800	13.9	55.9
DWM non-residential Vapor Intrusion Screening Levels			NS	8,760	438,000	263,000	52,600	8,760	87,600	3,500	175,000	438,000	175	2,790

*unable to analyze at lower detection limit due to high concentration of PCE
**5PPB by Method TO15
j=Analyte detected at or below quantitation limits
Bold=exceeds residential
exceeds non-residential

Appendix A

TECHNICAL METHODS/STANDARD PROCEDURES

Equipment Decontamination

All soil sampling equipment utilized during site assessment activities is decontaminated According to standard and accepted protocol. Cleaning solutions range from clean potable Water to acidic solutions or organic solvents depending on the contaminants present at the Site. Equipment utilized at sites, such as hand augers, contaminated with petroleum Hydrocarbons, is generally decontaminated with a low-sudsing detergent such as Alconox And triple rinsed with distilled water. Larger equipment, such as drill rigs and associated Tools, is steam cleaned. All decontamination depends on the nature of work being performed, But in no case is decontamination performed less frequently than once per test (i.e. , soil Boring, well installation, sample collection, etc.). Equipment blanks are collected as a Quality control measure when required by specifications.

Soil Boring Installation

Soil borings are completed using hand-operated sampling tools or truck-mounted Drill/Geoprobe rigs depending on the depth of sample collection and other site-specific Conditions. Hand operated stainless-steel bucket augers are utilized to collect soil samples At regular intervals to determine site stratigraphy and to test for the presence of volatile Organic compounds. Samples retrieved from the hand auger are necessarily disturbed During the augering process, but can provide accurate information on soil type and borings Are generally retrieved at two foot intervals.

Truck-mounted drilling equipment is often utilized when sample retrieval depths exceed Twenty feet or subsurface conditions prevent utilization of hand augers (i.e. , buried rocks, Wood, bricks or other materials occur in the subsurface). Two type of truck-mounted rigs Are typically used: a hollow-stem auger drill rig or a Geoprobe rig.

Hollow stem augers provide relatively undisturbed 2-foot cores of soil samples. Soil Samples are generally collected at five foot intervals utilizing standard penetration test Procedures as defined by the American Society for Testing and Materials (ASTM) or are Pushed to the desired depth using the head of the drill rig. The standard penetration test involves Driving a 2" O.D. X 1-3/8" I.D. split-spoon sampler a minimum distance of one foot with a 340-lb. Slide hammer falling a distance of 30 inches.

A Geoprobe Rig is a hydraulically-powered soil probing machine. The probe utilizes static force and Percussion to advance a small diameter sampling device into the subsurface. The sampling apparatus provides a relatively undisturbed 4-foot cores of soil samples. Soil samples are collected continuously.

Soil Samples retrieved from the hollow-stem augers or Geoprobe are then carefully described according To the Unified Soil Classification System. Soil descriptions are recorded on a soil boring log.

Soil Sampling

Soils to be analyzed by a North Carolina-Certified laboratory are prepared according to the specified analytical method. Initially, soil samples are removed from the ground using either a hand auger, backhoe bucket, or spilt spoon auger. During the removal, care is taken to keep the disturbance of the soil structure to a minimum to reduce the loss of contaminants. Once removed, the samples are placed in the proper sample container for the specified analytical method. For samples collected for the MADEP VPH and 8260 method, an Encore sampler is used to collect three 5-gram allotments of soil. All three allotments are placed in methanol-preserved 40 ML vials. A 250 ML glass jar of the sampled soil is also collected to provide moisture content information. Soils sampled for MADEP EPH, EPA methods 8270 and TPH 5030 and 3550 are placed in a 250 ML glass jar. Field personnel wear new, disposable latex gloves during the collection of each sample.

The soil samples are labeled with the sample location, sample identification, date and time of collection, and the analytical method. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical methods prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

If the soil is being sampled for volatile or semi-volatile compounds, a portion of the collected soil is placed in a Zip-lock bag and screened for volatile organic vapors. Head screening procedures are described in the following paragraph.

Headspace Screening

Soil samples collected during hand augered or truck-mounted soil boring installation are routinely tested for the presence of volatile organic compounds (VOC's). After retrieval from the hand auger or split-spoon, a portion of a soil sample is placed in a zip-lock plastic bag. The soil samples are then set aside for approximately five minutes so that volatile constituents present in the sample can reach equilibrium concentrations with headspace gases in the bag or jar. Once a suitable time period has passed, the probe of the sampling instrument, typically an organic vapor monitor (OVM) is inserted into the bag or jar, and the relative concentration of total VOCs is measured and permanently recorded in a field note book. VOC concentrations are measured with either a flame or photo-ionization detection instrument. All VOC testing instruments are periodically calibrated according to the manufacturers established procedures.

The OVM is a qualitative tool employed to detect and estimate the concentration of organic or hydrocarbon vapors. A thin probe is inserted through a small break in the seal of a bagged soil sample from the headspace of the bag is drawn through the probe into an internal chamber where the vapors are catalyzed.

The concentration of the VOCs is registered on a digital scale in parts per million. Oxygen levels are field calibrated prior to each use. VOC calibration occurs periodically depending upon use by using a span gas of known concentration. After the gas is introduced to the instrument, manual adjustments are made until the unit reads the same concentration as the span gas.

Well Installation/Construction

Monitoring wells are installed using hand-operated sampling tools or a truck-mounted drill rig depending on the depth of well and other site-specific conditions. All monitoring wells are installed according to the requirements of 15A NCAC 2C-Well Construction Standards. Specifically, individual monitoring wells are constructed of 2-inch diameter, schedule 40 PVC casing riser and screen. The screen interval is generally 10 to 15 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack sand. The filter pack extends one to two feet above the top of the screen. A one foot-thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with a cement/bentonite grout mixture of 3-5 pounds of sodium bentonite to 5-8 gallons of water to 94 pounds of cement. A protective outer steel casing, locking cap, and concrete pad is installed for each well.

Type II Monitoring Well Construction

Single-cased monitoring wells are used in delineation of groundwater quality within the surficial aquifer. The wells are constructed of 2-inch diameter, schedule 40 PVC riser and screen. The screen interval is generally 10-15 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack No.2 sand. The filter pack extends one to two feet above the top of the screen. A one foot-Thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with a cement/bentonite grout mixture of 3-5 pounds of sodium bentonite to 5-8 gallons of water to 94 pounds of cement. A protective outer steel manhole, locking cap, and concrete pad is installed for each well.

Type III Monitoring Well Construction

Double-cased monitoring wells are used in the delineation of groundwater quality within a deeper portion of the surficial aquifer or an additional aquifer (e.g. aquitard, bedrock). A six-inch outer casing is installed through the surficial aquifer until a sufficient depth or until the deeper aquifer is encountered. The casing is secured with grout collar that is tremmied into the annular spaced from the bottom of the bore hole to the surface. The grout is a cement/bentonite grout mixture of 3-5 pounds of sodium bentonite to 5-8 gallons of water to 94 pounds of cement once the grout has sufficiently cured, the bore hole is continued through the bottom of the outer casing to a depth approximately 15-20 feet beneath the outer casing. The inner casing is constructed of 2-inch diameter, schedule 40 PVC casing riser and screen.

The screen interval is generally 10-15 feet of machine slotted PVC with a slot size of 0.010". Only flush threaded joints are used. The annulus space around the screen is filled with washed filter pack No. 2 sand. The filter pack extends one to two feet above the top of the screen. A one foot-thick bentonite pellet seal is then placed above the filter pack. The remainder of the well annulus is completely filled with a same cement/bentonite grout mixture used in the outer casing. A protective outer steel manhole, locking cap, and concrete pad is installed for each well.

Well Development

Following installation of each well, surging and pumping or bailing techniques will be used to remove fines from the screened interval. Groundwater is removed from each well until clear water is retrieved or a noticeable reduction in the amount of silt is achieved. Purged groundwater is disposed of in an environmentally safe manner.

Groundwater Sampling

Groundwater samples are collected from temporary or permanent monitoring wells according to established sampling protocol. When permanent monitoring wells are sampled, the well is purged of a minimum of three well-bore volumes prior to sample collection in order to assure that sampled water is representative of aquifer conditions. In temporary wells, the first water which migrates into the open bore-hole is sampled. Samples from both temporary and permanent monitoring wells are collected using individually wrapped disposable polyethylene bailers by field personnel wearing disposable latex gloves. Only one well is sampled with a given bailer in order to prevent sample cross-contamination. Also, field personnel change gloves between different samples to reduce the chance of cross-contamination. Water samples are transferred from the bailer to laboratory-prepared sampling containers using slow emptying devices to reduce the chance of contamination loss through volatilization. Preservatives, such as acids, are added to samples directly after they are collected if preservation I necessary. The samples are labeled with the project name, project number, sample identification, required analysis, and date and time of collection. The samples are cooled on ice to four degrees analytical methods prescribed holding time. Chain-of-custody documentation is maintained for each sample collected in the field.

Surface Water Sampling

Surface water samples, specifically samples from creeks or streams, are collected from a moving/flowing portion of the creek or stream to ensure that stagnant water is not collected. Field personnel are careful to collect samples from flowing areas that are not so turbulent as to cause a loss of volatile contaminants which might have been contained in the creeks/streams water. Samples are collected by field personnel wearing disposable latex gloves. Field personnel change gloves between different locations to reduce the chance of cross-contamination. Samples are collected directly from the appropriate creek or stream location and placed into the appropriate laboratory-prepared containers. Preservatives, such as acids, are added to samples directly after they are collected if preservation is necessary. The samples are labeled with project name, project number, sample identification, required analysis and date and time of collection. The samples are cooled on ice to approximately four degrees centigrade, sent to a certified laboratory, and analyzed before the expiration of an analytical methods prescribed holding time. Chain of custody documentation is maintained for each sample collected in the field.

Potable Well Sampling

Groundwater samples from potable wells are collected from sampling points, typically spigots, located in the closest proximity to the potable well pump house as possible. Prior to sample collection, the water is urn for a sufficient amount of time to purge the bladder tank and assure that sampled water is representative of aquifer conditions. Once purged, the flow rate is reduced and samples are placed in the appropriate laboratory prepared containers and the appropriate acid preservatives are added if preservation of the samples necessary. The samples are labeled with the project name, number sample identification required analysis, and date and time of collection. The samples are placed on ice, sent to a laboratory, and analyzed before the expiration of an analytical methods prescribed holding time. Chain of custody documentation is maintained for each sample collected in the field.

Public Water Supply Line Sampling

Groundwater samples from public water supply lines are collected from sampling points, typically spigots. To sample the spigot, the flow rate is reduced and samples are placed the appropriate laboratory prepared containers. Time of collection, the analytical method, the preservatives, and the sampler's initials. The samples are placed on ice, sent to a laboratory and analyzed before the expiration of an analytical method's prescribed holding time. Chain of custody documentation is maintained for each sample collected in the field.

Air Sampling

Air samples are collected with the aide of a manually operated "mity-Vac" pump manufactured by Pristech, inc. The air sampling process begins by connecting a length of rubber hose from the MityVac pump to the port to be sampled, or by hanging the hose inside of an emissions stack in such a manner as to ensure no outside air causes dilution. Another length of hose is fixed to the outlet port of the pump and is connected to a new Tedlar bag. Once the pump is hooked up, a valve on the Tedlar collection bag is opened and air is manually forced into the bag by the pumping action of sampling personnel.

Field Measurements

Field measurements taken to determine the PH, conductivity, temperature, and dissolved oxygen concentration of a particular groundwater sample are taken directly after a particular monitoring well has been adequately purged. This ensures that the groundwater parameter data collected is representative of the aquifer conditions at a given location. Once purging of the monitoring well is complete, the decontaminated probe head and cord of the appropriate unit is lowered ito the required monitoring well. If the depth to water in a specific monitoring well is greater than the length of cord for a particular unit, a new disposable bailer is slowly lowered into the appropriate monitoring well and a representative groundwater sample is retrieved. A slow pouring device is fitted onto the end of the disposable bailer and the sample is slowly poured into a new, disposable plastic cup. Groundwater parameter data are then collected from the groundwater in the cup using the required unit.

For pH, conductivity, and temperature, an OAKTON pH/CON 10 portable meter is utilized. This unit is periodically calibrated and maintained in accordance with the unit's operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves lowering the meters probe to force groundwater across the probe's membrane. The measurements displayed by the meter are then recorded.

For dissolved oxygen concentration measurements, a YS Modes 55 Handheld Dissolved Oxygen System is utilized. This unit is periodically calibrated and maintained in accordance with the units operations manual by field personnel. Prior to data collection, the unit is properly decontaminated to prevent cross-contamination. The unit is decontaminated between each sample. The procedure used for sample measurement involves adjusting the reported units desired. Once this is done, the units probe is inserted into the groundwater sample to be measured and the probe is slowly stirred to force the groundwater across the probes membrane. The measurements displayed by the unit are then recorded.

Appendix B

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SW1		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is asphalt and gravel. No recovery from .5-2 feet. 2-5 red saprolitic clay. No odor, dry PID=0ppm
	5-10	5-6.5 NR, 6.5-8 red saprolitic clay, 8-9 red clay fill intermixed with black organics,sand and gravel, 9-10 is tan silt. Dry PID=0ppm
	10-15	10-14 red silty clay, 14-15 tan silt. Dry PID=0ppm. Jarred sample SW1-10-15
	15-20	15-18 red silt, 18-20 tand silty sand with gravel intermixed, dry PID=0ppm
	20-25	20-25 tan red saprolitic silt with some gravel intermixed along with white-gray silty sand saprolite, dry PID=0ppm
	25-30	25-27.5 red tan silt, 27.5-30 silty clay saprolite intermixed with organics, Damp PID=0ppm
	30-35	red tan silt, wet installed geoprobe screen point sampler ground water at approximately 33.41ft bgs
		Boring installed on 2/23/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SW2		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is asphalt and gravel. No recovery from 0-2.5 feet. 2.5-5 red saprolitic clay. No odor, dry PID=0ppm
	5-10	5-8 red saprolitic clay, 8-9 red tan silt, 9-10 red clayey silt. Dry PID=0ppm
	10-15	10-10.5 NR, 10.5-15 red tan silt. Dry PID=0ppm. Jarred sample SW2-10-15
	15-20	15-17 red silt with some black modeling, 17-20 white tan sandy silt, dry PID=0ppm
	20-25	20-25 tan sandy silt with some intermixed gravel, dry PID=0ppm
	25-30	25-28 tan silt, 28-30 red saprolitic clay with silt with some black modeling, dry PID=0ppm
		Installed geoprobe sceenpoint sampler approximate depth to groundwater is 34.55 feet bgs
		Boring installed on 2/23/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SW3		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is asphalt and gravel. No recovery from 0-2 feet. 2-5 red tan clayey silt, dry PID=0ppm
	5-10	5-10 red tan silt with some clay intermixed. Dry PID=0ppm. Jarred sample SW3-5-10
	10-15	10-15 red tan sandy silt with some black modeling at base and saprolitic rock at 14-15 feet w/ relict foliations. dry PID=0ppm.
	15-20	15-20 Silty sand partially weathered rock. Very hard feels dry, PID=0ppm
	20-25	20-25 red partially weathered rock with some black modeling, damp at top to wet PID=0ppm
		Installed geoprobe sceenpoint sampler approximate depth to groundwater is 19.00 feet bgs
		Boring installed on 2/23/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SW4		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is asphalt and gravel. No recovery from 0-1.5 feet. 1.5-5 red silt with some black modeling at base, no odor, dry PID=0ppm
	5-10	5-6 NR, 6-7 red sandy silt with some black modeling, 7-10 red tan sandy silt with some black modeling. No odor, dry PID=0ppm. Jarred sample SW4-8-10 (8-10 feet interval sampled)
	10-15	10-11 NR, 11-15 red tan sandy silt with some black modeling. No odor, dry PID=0ppm.
	15-20	15-20 red tan clayey silt with black modeling. White 2 inch layer at 17 feet is old saprolite, No odor and dry PID=0ppm
	20-25	20-25 red tan clay silt with some black modeling slightly damp at 24.5-25 feet. PID=0ppm
		Installed geoprobe sceenpoint sampler approximate depth to groundwater is 22.80 feet bgs
		Boring installed on 2/27/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB1		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is concrete and 1 foot of stone. 0-4 NR, 4-5 red silty clay. Dry, has old gas odor
	5-10	5-6.5 NR, 6.5-10 red clayey silt with old gas odor. Dry PID=6037ppm. Jarred sample SB1-8-10
	10-15	10-14 red clayey silt, 14-15 tan silt with old gas odor. Dry
	15-20	15-16 Tan sandy silt, 16-19 Red clayey silt, 19-20 tan red saprolitic silt. Old gas odor. Jarred sample SB1-15-17. Dry, PID=7647ppm
	20-25	20-25 tan red saprolitic sandy silt. Dry with old gas odor. PID=5604ppm from sample at 23-25 feet.
		Boring installed on 2/25/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB2		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is concrete and 6 inches of stone. 1-5 red grey clayey silt with black modeling. Dry, has old gas odor. Jarred sample SB2-3-5. PID=5077ppm
	5-10	5-10 red clayey silt with old gas odor. Dry PID=6161ppm.
	10-15	10-15 red sandy silt with some black modeling. Dry, has old gas odor
	15-20	15-17 Red sandy silt with some black modeling. Sand at 17 feet thin layer. 17-19 red silt, 19-20 red saprolitic sandy silt with black modeling. Old gas odor. Jarred sample SB2-15-17. Dry, PID=4844ppm
	20-25	20-23 red saprolitic sandy silt with some black modeling. 23-25 tan saprolitic silty sand. Dry with old gas odor. PID=4512ppm from sample at 23-25 feet.
		Boring installed on 2/25/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB3		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is concrete and 6 inches of stone. 1-3.5 NR, 3.5-5 red clay with black modeling. Dry, has old gas odor. PID=5077ppm from sample at 3.5-5 feet.
	5-10	5-10 red clayey silt with old gas odor. Dry PID=5108ppm at sample from 8-10 feet.
	10-15	10-14 red silt, 14-15 tan brown silt. Dry, has old gas odor
	15-20	15-17 Red silt. Sand at 17 feet thin layer approx. 2 inches. 17-20 red brown sandy silt. Old gas odor. Jarred sample SB3-15-17. Dry, PID=4920ppm
	20-25	20-25 red brown silt with some black modeling lots of mica and has slight grey color. Dry with old gas odor.Jarred sample SB3-23-25. Dry, PID=5263ppm from sample at 23-25 feet.
		Boring installed on 2/25/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB4		INSTALLED WITH GEOPROBE
	0-5	top 6 inches is concrete and 6inches of stone. 1-5 NR
	5-10	5-9.5 red clayey silt, 9.5-10 red silt. Old gas odor. Dry PID=238ppm at sample from 8-10 feet.
	10-15	10-15 red tan sandy silt with some black modeling and a approximate 2 inch layer of sand at 13.5 feet. Old gas odor. Dry
	15-20	15-20 Red tan sandy silt with black modeling. Old gas odor. Jarred sample SB4-15-17. Dry, PID=3090ppm
	20-25	20-25 Red tan sandy silt with black modeling lots of mica. Dry with old gas odor.Jarred sample SB4-23-25. Dry, PID=6068ppm from sample at 23-25 feet.
		Boring installed on 2/25/15
		Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB5		INSTALLED WITH GEOPROBE
	0-5	top 3 inches is concrete. 0-1 NR, 1-5 red grey clayey silt with old gas odor.Jarred sample SB5-2-5. PID=4667ppm
	5-10	5-7.5 red grey clayey silt, 7.5-9.5 tan clay silt with some sand intermixed, 9.5-10 brown red silt. Old gas odor. Dry PID=4885ppm at sample from 8-10 feet.
	10-15	10-14 Red brown silt, 14-15 red silt. Old gas odor. Dry
	15-20	15-20 Red brown silt with black modeling. Dry with old gas odor.Jarred sample SB5-15-17, PID=1642ppm from sample at 15-17 feet.
	20-25	20-24 Red brown silty saprolite with black modeling, 24-25 silty red tan saprolite with relict foliations Dry with old gas odor. PID=2961ppm from sample at 23-25 feet.
		Boring installed on 2/25/15 Site Geologist: Jason Jomp

BORING LOG
955 Brookstown
Winston-Salem, NC

Boring I.D.	Interval (feet)	Sample Description
SB6		INSTALLED WITH GEOPROBE
	0-5	top 4 inches is concrete then 8 inches of stone. 0-1.5 NR, 1.5-5 red grey clayey silt with old gas odor.Dry, PID=6.8ppm at sample from 3-5 feet.
	5-10	5-10 red grey clayey silt. Old gas odor. Dry PID=24.2ppm at sample from 8-10 feet.
	10-15	10-13 Red tan silt, 13-13.5 sandy quartz saprolite,13.5-15 red brown saprolitic silt with black modeling. Old gas odor. Dry
	15-20	15-20 Red brown sandy silt saprolite with black modeling. Dry with old gas odor.Jarred sample SB6-15-17, PID=503ppm from sample at 15-17 feet.
	20-25	20-22 red silt, 22-25 red brown sandy silt saprolite with black modeling. Dry with old gas odor. Jarred sample SB6-23-25, PID=1694ppm from sample at 23-25 feet.
		Installed geoprobe sceenpoint sampler approximate depth to groundwater is 30.55 feet bgs
		Boring installed on 2/25/15 Site Geologist: Jason Jomp

Appendix C

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Locations Identified as Brookstown
(A Piedmont Industrial Services Project, collected 23 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (mg/kg)	SW1-10-15 (mg/kg)	SW2-10-15 (mg/kg)	SW3-5-10 (mg/kg)
Acetone	0.100	BQL	BQL	BQL
Benzene	0.005	BQL	BQL	BQL
Bromobenzene	0.005	BQL	BQL	BQL
Bromochloromethane	0.005	BQL	BQL	BQL
Bromodichloromethane	0.005	BQL	BQL	BQL
Bromoform	0.005	BQL	BQL	BQL
Bromomethane	0.010	BQL	BQL	BQL
2-Butanone	0.100	BQL	BQL	BQL
N-Butylbenzene	0.005	BQL	BQL	BQL
Sec-Butylbenzene	0.005	BQL	BQL	BQL
Tert-Butylbenzene	0.005	BQL	BQL	BQL
Carbon Tetrachloride	0.010	BQL	BQL	BQL
Chlorobenzene	0.005	BQL	BQL	BQL
Dibromochloromethane	0.005	BQL	BQL	BQL
Chloroethane	0.010	BQL	BQL	BQL
Chloroform	0.005	BQL	BQL	BQL
Chloromethane	0.010	BQL	BQL	BQL
2-Chlorotoluene	0.005	BQL	BQL	BQL
4-Chlorotoluene	0.005	BQL	BQL	BQL
1,2-Dibromoethane (EDB)	0.005	BQL	BQL	BQL
1,2-Dichlorobenzene	0.005	BQL	BQL	BQL
1,3-Dichlorobenzene	0.005	BQL	BQL	BQL
1,4-Dichlorobenzene	0.005	BQL	BQL	BQL
Dichlorodifluoromethane	0.005	BQL	BQL	BQL
1,1-Dichloroethane	0.005	BQL	BQL	BQL
1,2-Dichloroethane	0.005	BQL	BQL	BQL
1,1-Dichloroethene	0.005	BQL	BQL	BQL
Cis-1,2-Dichloroethene	0.005	BQL	BQL	BQL
Trans-1,2-Dichloroethene	0.005	BQL	BQL	BQL
1,2-Dichloropropane	0.005	BQL	BQL	BQL
1,3-Dichloropropane	0.005	BQL	BQL	BQL
2,2-Dichloropropane	0.005	BQL	BQL	BQL
1,1-Dichloropropane	0.005	BQL	BQL	BQL
Cis-1,3-Dichloropropene	0.010	BQL	BQL	BQL
Trans-1,3-Dichloropropene	0.010	BQL	BQL	BQL
Ethyl Acetate	0.010	BQL	BQL	BQL
Ethyl Benzene	0.005	BQL	BQL	BQL
2-Hexanone	0.050	BQL	BQL	BQL
I-Propylbenzene	0.005	BQL	BQL	BQL
Isopropyl ether (IPE)	0.010	BQL	BQL	BQL
p-Isopropyltoluene	0.005	BQL	BQL	BQL
Methylene Chloride	0.020	BQL	BQL	BQL
4-Methyl-2-Pentanone	0.100	BQL	BQL	BQL
Methyl-Tert-Butyl ether (MTBE)	0.010	BQL	BQL	BQL
Naphthalene	0.010	BQL	BQL	BQL
N-Propylbenzene	0.005	BQL	BQL	BQL
Styrene	0.010	BQL	BQL	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL	BQL	BQL
Tetrachloroethene	0.005	BQL	BQL	BQL
Toluene	0.005	BQL	BQL	BQL
1,1,1-Trichloroethane	0.005	BQL	BQL	BQL
1,1,2-Trichloroethane	0.005	BQL	BQL	BQL
Trichloroethene	0.005	BQL	BQL	BQL
Trichlorofluoromethane	0.005	BQL	BQL	BQL
1,2,3-Trichlorobenzene	0.005	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.005	BQL	BQL	BQL
1,2,3-Trichloropropane	0.015	BQL	BQL	BQL
1,2,4-Trimethylbenzene	0.005	BQL	BQL	BQL
1,3,5-Trimethylbenzene	0.005	BQL	BQL	BQL
Vinyl Acetate	0.050	BQL	BQL	BQL
Vinyl Chloride	0.010	BQL	BQL	BQL
Total Xylenes	0.005	BQL	BQL	BQL
Carbon Disulfide	0.100	BQL	BQL	BQL
Acrylonitrile	0.200	BQL	BQL	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL	BQL	BQL
Methyl Iodide	0.010	BQL	BQL	BQL
Dibromomethane	0.010	BQL	BQL	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL	BQL	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL	BQL
Ethanol	0.100	BQL	BQL	BQL
Dilution Factor		1	1	1
Sample Number		1178-01	1178-02	1178-03
Sample Date		02/23/15	02/23/15	02/23/15
Sample Time (hrs)		0840	1233	1458
Date Analyzed		02/26/15	02/26/15	02/26/15
Time Analyzed		1626	1657	1728
Surrogate Recovery (DBFM)	Range (70-130%)	105%	111%	111%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	98%	98%	101%
Surrogate Recovery (4-BFB)	Range (70-130%)	105%	103%	107%

mg/kg = milligrams per kilogram = parts per million (ppm)

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Locations Identified as Brookstown
(A Piedmont Industrial Services Project, collected 23 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (mg/kg)	SW1-10-15 (mg/kg)	SW2-10-15 (mg/kg)	SW3-5-10 (mg/kg)
Acenaphthene	0.33	BQL	BQL	BQL
Acenaphthylene	0.33	BQL	BQL	BQL
Anthracene	0.33	BQL	BQL	BQL
Benzoic Acid	6.67	BQL	BQL	BQL
Benzo(a)anthracene	0.33	BQL	BQL	BQL
Benzo(b)fluoranthene	0.33	BQL	BQL	BQL
Benzo(k)fluoranthene	0.33	BQL	BQL	BQL
Benzo(ghi)perylene	0.33	BQL	BQL	BQL
Benzo(a)pyrene	0.33	BQL	BQL	BQL
Benzyl Alcohol	3.33	BQL	BQL	BQL
Bis(2-chloroethoxy)methane	0.33	BQL	BQL	BQL
Bis(2-chloroethyl)ether	0.33	BQL	BQL	BQL
Bis(2-chloroisopropyl)ether	0.33	BQL	BQL	BQL
Bis(2-ethyl-hexyl)phthalate	0.33	BQL	BQL	BQL
4-Bromophenyl phenyl ether	0.33	BQL	BQL	BQL
Benzyl butyl phthalate	0.33	BQL	BQL	BQL
4-Chloroaniline	1.65	BQL	BQL	BQL
4-Chloro-3-methylphenol	0.33	BQL	BQL	BQL
2-Chloronaphthalene	0.33	BQL	BQL	BQL
2-Chlorophenol	0.33	BQL	BQL	BQL
4-Chlorophenyl phenyl ether	0.33	BQL	BQL	BQL
Chrysene	0.33	BQL	BQL	BQL
Dibenzo(a,h)anthracene	0.33	BQL	BQL	BQL
Dibenzofuran	0.33	BQL	BQL	BQL
Di-N-Butyl phthalate	0.33	BQL	BQL	BQL
1,2-Dichlorobenzene	0.33	BQL	BQL	BQL
1,3-Dichlorobenzene	0.33	BQL	BQL	BQL
1,4-Dichlorobenzene	0.33	BQL	BQL	BQL
3,3-Dichlorobenzidine	0.66	BQL	BQL	BQL
2,4-Dichlorophenol	0.33	BQL	BQL	BQL
Diethyl phthalate	0.33	BQL	BQL	BQL
2,4-Dimethylphenol	0.33	BQL	BQL	BQL
Dimethyl phthalate	0.33	BQL	BQL	BQL
4,6-Dinitro-2-methylphenol	1.65	BQL	BQL	BQL
2,4-Dinitrophenol	1.65	BQL	BQL	BQL
2,4-Dinitrotoluene	0.33	BQL	BQL	BQL
2,6-Dinitrotoluene	0.33	BQL	BQL	BQL
Di-N-Octyl phthalate	0.33	BQL	BQL	BQL
Azobenzene	3.33	BQL	BQL	BQL
Fluoranthene	0.33	BQL	BQL	BQL
Fluorene	0.33	BQL	BQL	BQL
Hexachlorobenzene	0.33	BQL	BQL	BQL
Hexachlorobutadiene	0.33	BQL	BQL	BQL
Hexachlorocyclopentadiene	0.33	BQL	BQL	BQL
Hexachloroethane	0.33	BQL	BQL	BQL
Indeno(1,2,3-cd) pyrene	0.33	BQL	BQL	BQL
Isophorone	0.33	BQL	BQL	BQL
2-Methylnaphthalene	0.33	BQL	BQL	BQL
2-Methylphenol	1.65	BQL	BQL	BQL
4-Methylphenol	1.65	BQL	BQL	BQL
Nitrobenzene	0.33	BQL	BQL	BQL
2-Nitrophenol	0.33	BQL	BQL	BQL
4-Nitrophenol	1.65	BQL	BQL	BQL
N-Nitrosodiphenylamine	0.33	BQL	BQL	BQL
N-nitrosodi-n-propylamine	0.33	BQL	BQL	BQL
Pentachlorophenol	1.65	BQL	BQL	BQL
Phenanthrene	0.33	BQL	BQL	BQL
Phenol	0.33	BQL	BQL	BQL
Pyrene	0.33	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.33	BQL	BQL	BQL
2,4,6-Trichlorophenol	0.33	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	1.65	BQL	BQL	BQL
Benzidine	1.65	BQL	BQL	BQL
1,2-Diphenylhydrazine	1.65	BQL	BQL	BQL
N-Nitrosodimethylamine	0.33	BQL	BQL	BQL
Napthalene	0.33	BQL	BQL	BQL
1-Methylnaphthalene	0.33	BQL	BQL	BQL
Dilution Factor		1	1	1
Sample Number		1178-01	1178-02	1178-03
Sample Date		02/23/15	02/23/15	02/23/15
Sample Time (hrs)		0840	1233	1458
Date Extracted		02/27/15	02/27/15	02/27/15
Date Analyzed		03/01/15	03/01/15	03/01/15
Time Analyzed		1730	1757	1824
Surrogate Recovery	Range			
(2-Fluorophenol)	(21-110%)	64%	62%	65%
(Phenol-d6)	(10-110%)	56%	57%	61%
(Nitrobenzene-d5)	(35-114%)	80%	77%	81%
(2,4,6-Tribromophenol)	(10-123%)	62%	66%	69%
(2-Fluorobiphenyl)	(43-116%)	68%	71%	81%
(4-Terphenyl-d14)	(33-141%)	65%	64%	69%

mg/kg = milligrams per kilogram = parts per million (ppm) BNA = Base-Neutral Acid Extractables BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Location Identified as Brookstown
(A Piedmont Industrial Project, collected 23 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (ppb)	SW1 (ppb)	SW2 (ppb)	SW3 (ppb)
Acetone	25	BQL	BQL	BQL
Acrolein	100	BQL	BQL	BQL
Acrylonitrile	100	BQL	BQL	BQL
Benzene	0.5	BQL	BQL	BQL
Bromobenzene	0.5	BQL	BQL	BQL
Bromochloromethane	0.5	BQL	BQL	BQL
Bromodichloromethane	0.5	BQL	BQL	BQL
Bromoform	1.0	BQL	BQL	BQL
Bromomethane	1.0	BQL	BQL	BQL
2-Butanone	25	BQL	BQL	BQL
Carbon Disulfide	5.0	BQL	BQL	BQL
Carbon Tetrachloride	0.5	BQL	BQL	BQL
Chlorobenzene	0.5	BQL	BQL	BQL
Chloroethane	1.0	BQL	BQL	BQL
2-Chloroethyl vinyl ether	5.0	BQL	BQL	BQL
Chloroform	0.5	BQL	BQL	BQL
Chloromethane	1.0	BQL	BQL	BQL
2-Chlorotoluene	0.5	BQL	BQL	BQL
4-Chlorotoluene	0.5	BQL	BQL	BQL
Cis-1,2-Dichloroethene	0.5	BQL	BQL	BQL
Cis-1,3-Dichloropropene	0.5	BQL	BQL	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	5.0	BQL	BQL	BQL
1,2-Dibromoethane (EDB)	0.5	BQL	BQL	BQL
Dibromochloromethane	0.5	BQL	BQL	BQL
Dibromomethane	0.5	BQL	BQL	BQL
1,2-Dichlorobenzene	0.5	BQL	BQL	BQL
1,3-Dichlorobenzene	0.5	BQL	BQL	BQL
1,4-Dichlorobenzene	0.5	BQL	BQL	BQL
1,1-Dichloroethane	0.5	BQL	BQL	BQL
1,2-Dichloroethane	0.5	BQL	BQL	BQL
1,1-Dichloroethene	0.5	BQL	BQL	BQL
Dichloroflouromethane	0.5	BQL	BQL	BQL
1,2-Dichloropropane	0.5	BQL	BQL	BQL
1,3-Dichloropropane	0.5	BQL	BQL	BQL
2,2-Dichloropropane	0.5	BQL	BQL	BQL
1,1-Dichloropropene	0.5	BQL	BQL	BQL
Ethyl Benzene	0.5	BQL	BQL	BQL
2-Hexanone	5.0	BQL	BQL	BQL
IPE	0.5	BQL	BQL	BQL
I-Propylbenzene	0.5	BQL	BQL	BQL
4-Methyl-2-Pentanone	5.0	BQL	BQL	BQL
Methyl Iodide	1.0	BQL	BQL	BQL
Methylene Chloride	5.0	BQL	BQL	BQL
MTBE	0.5	BQL	BQL	BQL
Naphthalene	0.5	BQL	BQL	BQL
N-Butylbenzene	0.5	BQL	BQL	BQL
N-Propylbenzene	0.5	BQL	BQL	BQL
p-Isopropyltoluene	0.5	BQL	BQL	BQL
Sec-Butylbenzene	0.5	BQL	BQL	BQL
Styrene	0.5	BQL	BQL	BQL
Tert-Butylbenzene	0.5	BQL	BQL	BQL
1,1,1,2-Tetrachloroethane	0.5	BQL	BQL	BQL
1,1,2,2-Tetrachloroethane	0.5	BQL	BQL	BQL
Tetrachloroethene	0.5	BQL	BQL	BQL
Toluene	0.5	BQL	BQL	BQL
Trans-1,2-Dichloroethene	0.5	BQL	BQL	BQL
Trans-1,3-Dichloropropene	0.5	BQL	BQL	BQL
Trans-1,4-Dichloro-2-butene	5.0	BQL	BQL	BQL
1,2,3-Trichlorobenzene	0.5	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.5	BQL	BQL	BQL
1,1,1-Trichloroethane	0.5	BQL	BQL	BQL
1,1,2-Trichloroethane	0.5	BQL	BQL	BQL
Trichloroethene	0.5	BQL	BQL	BQL
Trichlorofluoromethane	0.5	BQL	BQL	BQL
1,2,3-Trichloropropane	0.5	BQL	BQL	BQL
1,2,4-Trimethylbenzene	0.5	BQL	BQL	BQL
1,3,5-Trimethylbenzene	0.5	BQL	BQL	BQL
Vinyl Acetate	1.0	BQL	BQL	BQL
Vinyl Chloride	0.5	BQL	BQL	BQL
Total Xylenes	1.0	BQL	BQL	BQL
Dilution Factor		1	1	1
Sample Number		1178-04	1178-05	1178-06
Sample Date		02/23/15	02/23/15	02/23/15
Sample Time (hrs)		1027	1340	1546
Date Analyzed		03/01/15	03/01/15	03/02/15
Time Analyzed		2314	2345	0017
Surrogate Recovery (DBFM)	Range (70-130%)	107%	110%	112%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	102%	98%	95%
Surrogate Recovery (4-BFB)	Range (70-130%)	97%	103%	98%

BQL = Below Quantitation Limit

ppb = parts per billion

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Location Identified as Brookstown
(A Piedmont Industrial Project, collected 23 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (ppb)	SW1 (ppb)	SW2 (ppb)	SW3 (ppb)
4-Chloro-3-methylphenol	10.0	BQL	BQL	BQL
2-Chlorophenol	10.0	BQL	BQL	BQL
2,4-Dichlorophenol	10.0	BQL	BQL	BQL
2,4-Dimethylphenol	10.0	BQL	BQL	BQL
2,4-Dinitrophenol	50.0	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	50.0	BQL	BQL	BQL
2-Nitrophenol	10.0	BQL	BQL	BQL
4-Nitrophenol	50.0	BQL	BQL	BQL
Pentachlorophenol	50.0	BQL	BQL	BQL
Phenol	10.0	BQL	BQL	BQL
2,4,6-Trichlorophenol	10.0	BQL	BQL	BQL
Acenaphthene	10.0	BQL	BQL	BQL
Acenaphthylene	10.0	BQL	BQL	BQL
Anthracene	10.0	BQL	BQL	BQL
Benzidine	50.0	BQL	BQL	BQL
Benzo(a)anthracene	10.0	BQL	BQL	BQL
Benzo(a)pyrene	10.0	BQL	BQL	BQL
Benzo(b)fluoranthene	10.0	BQL	BQL	BQL
Benzo(ghi)perylene	10.0	BQL	BQL	BQL
Benzo(k)fluoranthene	10.0	BQL	BQL	BQL
Benzyl butyl phthalate	10.0	BQL	BQL	BQL
Bis(2-chloroethoxy)methane	10.0	BQL	BQL	BQL
Bis(2-chloroethyl)ether	10.0	BQL	BQL	BQL
Bis(2-chloroisopropyl)ether	10.0	BQL	BQL	BQL
Bis(2-ethyl-hexyl)phthalate	10.0	BQL	BQL	BQL
4-Bromophenyl phenyl ether	10.0	BQL	BQL	BQL
2-Chloronaphthalene	10.0	BQL	BQL	BQL
4-Chlorophenyl phenyl ether	10.0	BQL	BQL	BQL
Chrysene	10.0	BQL	BQL	BQL
Dibenzo(a,h)anthracene	10.0	BQL	BQL	BQL
1,2-Dichlorobenzene	10.0	BQL	BQL	BQL
1,3-Dichlorobenzene	10.0	BQL	BQL	BQL
1,4-Dichlorobenzene	10.0	BQL	BQL	BQL
3,3-Dichlorobenzidine	20.0	BQL	BQL	BQL
Diethyl phthalate	10.0	BQL	BQL	BQL
Dimethyl phthalate	10.0	BQL	BQL	BQL
Di-N-Butyl phthalate	10.0	BQL	BQL	BQL
2,4-Dinitrotoluene	10.0	BQL	BQL	BQL
2,6-Dinitrotoluene	10.0	BQL	BQL	BQL
Di-N-Octyl phthalate	10.0	BQL	BQL	BQL
1,2-Diphenylhydrazine	50.0	BQL	BQL	BQL
Fluoranthene	10.0	BQL	BQL	BQL
Fluorene	10.0	BQL	BQL	BQL
Hexachlorobenzene	10.0	BQL	BQL	BQL
Hexachlorobutadiene	10.0	BQL	BQL	BQL
Hexachlorocyclopentadiene	10.0	BQL	BQL	BQL
Hexachloroethane	10.0	BQL	BQL	BQL
Indeno(1,2,3-cd) pyrene	10.0	BQL	BQL	BQL
Isophorone	10.0	BQL	BQL	BQL
Naphthalene	10.0	BQL	BQL	BQL
Nitrobenzene	10.0	BQL	BQL	BQL
N-Nitrosodimethylamine	10.0	BQL	BQL	BQL
N-nitrosodi-n-propylamine	10.0	BQL	BQL	BQL
N-Nitrosodiphenylamine	10.0	BQL	BQL	BQL
Phenanthrene	10.0	BQL	BQL	BQL
Pyrene	10.0	BQL	BQL	BQL
1,2,4-Trichlorobenzene	10.0	BQL	BQL	BQL
2-Methylnaphthalene	10.0	BQL	BQL	BQL
1-Methylnaphthalene	10.0	BQL	BQL	BQL
Dilution Factor		1	1	1
Sample Number		1178-04	1178-05	1178-06
Sample Date		02/23/15	02/23/15	02/23/15
Sample Time (hrs)		1027	1340	1546
Date Extracted		02/25/15	02/25/15	02/25/15
Date Analyzed		02/26/15	02/26/15	02/26/15
Time Analyzed		1856	1923	2044
Surrogate Recovery	**Range**			
(2-Fluorophenol)	(21-110%)	36%	26%	41%
(Phenol-d6)	(10-110%)	25%	22%	27%
(Nitrobenzene-d5)	(35-114%)	84%	87%	89%
(2,4,6-Tribromophenol)	(10-123%)	62%	39%	67%
(2-Fluorobiphenyl)	(43-116%)	79%	63%	78%
(4-Terphenyl-d14)	(33-141%)	76%	67%	75%

BNA = Base-Neutral Acid Extractables

ppb = parts per billion

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Piedmont Industrial Services
STREET ADDRESS: 1670 Lowery Street
CITY, STATE, ZIP: Winston Salem NC 27101
CONTACT: Jason Jump
PHONE: 336-722-6505
JOB NO: Reece
PROJECT: Brookstown
SAMPLER NAME (PLEASE PRINT): Jason Jump
SAMPLER SIGNATURE: [signature]

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P,G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)	REQUESTED ANALYSIS
1178-01	2/23	840		X				S	SW1-10-15	5											EPA method 8260/8270
-02		1233		X				S	SW2-10-15	5											
-03		1458		X				S	SW3-5-10	5											
-04		1027		X				W	SW1	6											
-05		1340		X				W	SW2	6											
-06		1546		X				W	SW3	6											

WATER / WASTEWATER | MISC.

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Ken C. PIS	2/24/15 1045	A Murphy
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: IASB - Brownsfield Site / EPA method 8260/8270 on ~~Dirt~~ Soil and Water

SAMPLE TEMPERATURE AT RECEIPT 3 °C

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

Three (3) soil and three (3) water samples were received in good condition 24 February 2015. The samples were analyzed without difficulties unless noted below.

Sidney L. Champion

03/05/15

Sidney L. Champion
Director of Laboratory Services

Date

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 336-996-2841 • Fax 336-996-0326
www.randalabs.com

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0226**

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

Sample ID:	**1178-01 – 03**				**INSTUMENT: MS-2**		
Extraction Method	5035						
Date Extracted	N/A						
Weight Extracted	5G/5ML						
Final Extract Volume	5G/5ML						
Date Analyzed	02/26/15						
% Surrogate Recovery	97	102	98				
Acceptance Range	(70-130)	(70-130)	(70-130)				

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
DICHLORODIFLUOROMETHANE	0.00047	ND	89	56-126					
CHLOROMETHANE	0.00050	ND	93	62-133					
VINYL CHLORIDE	0.00059	ND	89	67-136					
BROMOMETHANE	0.00028	ND	94	72-130					
CHLOROETHANE	0.00029	ND	93	73-138					
TRICHLOROFLUOROMETHANE	0.00037	ND	94	78-131					
ACETONE	0.00159	ND	94	62-119					
ACRYLONITRILE	0.00036	ND	102	76-135					
2-BUTANONE	0.00152	ND	90	62-122					
1,1-DICHLOROETHENE	0.00059	ND	94	82-133	84	95	12	14	61-145
METHYL IODIDE	0.00307	ND	100	70-136					
CARBON DISULFIDE	0.00042	ND	92	76-132					
METHYLENE CHLORIDE	0.00138	ND	92	68-135					
TRANS-1,2-DICHLOROETHENE	0.00107	ND	93	80-134					
1,1-DICHLOROETHANE	0.00036	ND	91	74-140					
ISOPROPYL ETHER(IPE)	0.00024	ND	92	67-139					
METHYL-TERT-BUTYL ETHER(MTBE)	0.00032	ND	89	68-131					
VINYL ACETATE	0.00035	ND	93	67-127					
CIS-1,2-DICHLOROETHENE	0.00031	ND	93	78-133					
2,2-DICHLOROPROPANE	0.00029	ND	95	72-123					
BROMOCHLOROMETHANE	0.00049	ND	93	71-139					
CHLOROFORM	0.00029	ND	91	81-126					
1,1,1-TRICHLOROETHANE	0.00028	ND	91	76-129					
CARBON TETRACHLORIDE	0.00081	ND	93	81-133					
1,1-DICHLOROPROPENE	0.00059	ND	89	80-135					
BENZENE	0.00038	ND	92	78-131	96	105	8	11	76-127
ETHYL ACETATE	0.00074	ND	90	63-122					
1,2-DICHLOROETHANE	0.00055	ND	93	72-132					
TRICHLOROETHENE(TCE)	0.00028	ND	97	79-126	89	91	3	14	71-120
1,2-DICHLOROPROPANE	0.00023	ND	95	79-126					
DIBROMOETHANE	0.00043	ND	92	71-129					

COMMENTS:

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0226** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

SAMPLE ID:	1178-01 – 03			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL mg/kg	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.00026	ND	97	71-126					
4-METHYL-2-PENTANONE	0.00052	ND	96	67-122					
CIS-1,3-DICHLOROPROPENE	0.00023	ND	96	70-125					
TOLUENE	0.00027	ND	95	65-139	91	92	2	13	76-125
TRANS-1,3-DICHLOROPROPENE	0.00052	ND	98	65-131					
1,1,2-TRICHLOROETHANE	0.00041	ND	98	64-137					
TETRACHLOROETHENE(PCE)	0.00026	ND	96	61-164					
2-HEXANONE	0.00050	ND	93	63-118					
DIBROMOCHLOROMETHANE	0.00037	ND	98	60-138					
1,3-DICHLOROPROPANE	0.00033	ND	99	64-135					
1,2-DIBROMOETHANE(EDB)	0.00074	ND	99	68-131					
CHLOROBENZENE	0.00029	ND	97	87-121	94	96	3	13	75-130
1,1,1,2-TETRACHLOROETHANE	0.00041	ND	100	85-131					
ETHYLBENZENE	0.00028	ND	99	91-121					
TOTAL XYLENES(M&P, O)	0.00056	ND	97	88-127					
STYRENE	0.00037	ND	100	88-124					
BROMOFORM	0.00045	ND	98	66-133					
ISOPROPYLBENZENE	0.00027	ND	99	90-125					
BROMOBENZENE	0.00028	ND	98	81-128					
1,2,3-TRICHLOROPROPANE	0.00043	ND	119	66-132					
TRANS-1,4-DICHLORO-2-BUTENE	0.00050	ND	97	77-120					
N-PROPYLBENZENE	0.00058	ND	99	88-123					
2-CHLOROTOLUENE	0.00050	ND	102	86-126					
4-CHLOROTOLUENE	0.00042	ND	100	82-125					
1,3,5-TRIMETHYLBENZENE	0.00054	ND	97	89-124					
TERT-BUTYLBENZENE	0.00029	ND	98	89-128					
1,2,4-TRIMETHYLBENZENE	0.00056	ND	98	87-125					
SEC-BUTYLBENZENE	0.00042	ND	98	88-127					
1,3-DICHLOROBENZENE	0.00041	ND	99	79-127					
1,1,2,2-TETRACHLOROETHANE	0.00078	ND	96	72-128					
P-ISOPROPYLTOLUENE	0.00048	ND	98	86-128					
1,4-DICHLOROBENZENE	0.00042	ND	99	80-122					
1,2-DICHLOROBENZENE	0.00039	ND	95	80-123					
N-BUTYLBENZENE	0.00033	ND	97	84-127					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.00067	ND	92	66-125					
1,2,4-TRICHLOROBENZENE	0.00025	ND	100	76-117					
NAPHTHALENE	0.00047	ND	97	79-119					
1,2,3-TRICHLOROBENZENE	0.00036	ND	100	72-118					

COMMENTS:

QA/QC Summary

Method: 8270 (100/200 PPB QC)	FILE NAME: SLC0301-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:BROOKSTOWN)

Sample ID:	1178--01-03				INSTUMENT: MS-1				
Extraction Method	3550								
Date Extracted	02/27/15								
Weight Extracted	30G								
Final Extract Volume	1ML								
Date Analyzed	03/01/15								
% Surrogate Recovery	73	82	74	74	86		61		
Acceptance Range	(21 - 110)	(10 - 110)	(35 - 114)	(10 - 123)	(43 - 116)		(33 - 141)		
Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.047	ND	80	51-108					
Bis(2-chloroethyl)ether	0.066	ND	80	49-110					
Phenol	0.066	ND	83	52-118	52	65	21	42	12-110
2-Chlorophenol	0.060	ND	81	55-111	62	79	24	40	27-123
1,3-Dichlorobenzene	0.085	ND	76	54-108					
1,4-Dichlorobenzene	0.050	ND	73	55-112	53	66	23	28	36-97
1,2-Dichlorobenzene	0.047	ND	78	53-112					
Benzyl Alcohol	0.087	ND	88	47-160					
2-Methylphenol(O-CREOSOL)	0.072	ND	87	35-127					
3&4-Methylphenol(M&P CREOSOL)	0.063	ND	93	47-132					
Bis(2-chloroisopropyl)ether	0.063	ND	97	37-116					
N-nitrosodi-n-propylamine	0.057	ND	88	45-123	65	83	25	38	41-116
Hexachloroethane	0.069	ND	76	52-107					
2-Nitrophenol	0.066	ND	82	56-117					
2,4-Dimethylphenol	0.079	ND	76	35-118					
Nitrobenzene	0.072	ND	75	50-99					
Isophorone	0.079	ND	73	48-100					
Bis(2-chloroethoxy)methane	0.063	ND	77	51-96					
Benzoic Acid	0.348	ND	97	D-136					
2,4-Dichlorophenol	0.066	ND	77	42-117					
1,2,4-Trichlorobenzene	0.047	ND	73	53-95	77	95	22	28	39-98
4-Chloro-3-methylphenol	0.141	ND	82	49-128	70	90	28	42	23-97
4-Chloroaniline	0.479	ND	74	44-116					
Hexachlorobutadiene	0.057	ND	67	39-121					
2-Methylnaphthalene	0.056	ND	70	63-105					
Dibenzofuran	0.063	ND	78	50-128					
2,4,6-Trichlorophenol	0.044	ND	99	23-167					
2,4,5-Trichlorophenol	0.107	ND	86	32-158					

N/A.

QA/QC Summary

Method: 8270 (100/200 PPB QC) | **FILE NAME: SLC0301-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:BROOKSTOWN)

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
2-Methyl-4,6-Dinitrophenol	0.170	ND	83	64-140					
4-Nitrophenol	0.232	ND	84	50-140	73	71	2	50	10-80
Hexachlorocyclopentadiene	0.079	ND	65	12-129					
2-Chloronaphthalene	0.046	ND	91	46-127					
Dimethyl phthalate	0.066	ND	77	51-113					
Acenaphthylene	0.066	ND	87	41-128					
2,6-Dinitrotoluene	0.075	ND	77	58-120					
Acenaphthene	0.057	ND	95	49-129	62	78	23	31	46-118
2,4-Dinitrotoluene	0.079	ND	91	53-123	49	64	27	38	24-96
Fluorene	0.060	ND	76	49-127					
Diethyl phthalate	0.072	ND	87	47-117					
4-Chlorophenyl phenyl ether	0.050	ND	86	46-134					
2,4-Dinitrophenol	0.188	ND	93	45-147					
Azobenzene	0.083	ND	94	45-117					
Pentachlorophenol	0.129	ND	82	64-144	54	67	22	50	9-103
N-Nitrosodiphenylamine	0.066	ND	98	2-127					
4-Bromophenyl phenyl ether	0.085	ND	94	50-130					
Hexachlorobenzene	0.069	ND	77	50-131					
Phenanthrene	0.075	ND	102	50-135					
Anthracene	0.072	ND	88	57-131					
Di-N-Butyl phthalate	0.097	ND	102	47-115					
Fluoranthene	0.085	ND	99	47-128					
Benzidine	0.048	ND	32	D-150					
Pyrene	0.038	ND	91	56-120	51	65	24	31	26-127
Benzyl butyl phthalate	0.060	ND	84	55-122					
Benzo(a)anthracene	0.050	ND	88	62-119					
3,3-Dichlorobenzidine	0.122	ND	42	D-114					
Chrysene	0.060	ND	75	60-124					
Bis(2-ethyl-hexyl)phthalate	0.066	ND	79	46-124					
Di-N-Octyl phthalate	0.079	ND	71	49-131					
Benzo(b)fluoranthene	0.122	ND	81	60-132					
Benzo(k)fluoranthene	0.110	ND	65	39-137					
Benzo(a)pyrene	0.047	ND	71	63-126					
Indeno(1,2,3-cd) pyrene	0.094	ND	82	39-159					
Dibenzo(a,h)anthracene	0.088	ND	81	20-158					
Benzo(g,h,i)perylene	0.097	ND	72	40-158					

N/A = Data Not Available *** = OUT OF RANGE**

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0301**

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

Sample ID:	**1178-04 – 06**				**INSTUMENT: MS-2**			**Page 1 of 2**	
Extraction Method	**N/A**								
Date Extracted	**N/A**								
Weight Extracted	**25ML**								
Final Extract Volume	**25ML**								
Date Analyzed	**03/01/15**								
% Surrogate Recovery	**99**	**98**	**96**						
Acceptance Range	**(70-130)**	**(70-130)**	**(70-130)**						
Compound	**MDL ug/L**	**Method Blank**	**LCS % Recovery**	**LCS Acceptance Range**	**MS % Rec.**	**MSD % Rec.**	**RPD**	**QC LIMITS RPD**	**QC LIMITS % REC**
DICHLORODIFLUOROMETHANE	0.12	ND	**92**	70-130					
CHLOROMETHANE	0.07	ND	**85**	70-130					
VINYL CHLORIDE	0.11	ND	**102**	70-130					
BROMOMETHANE	0.18	ND	**108**	70-130					
CHLOROETHANE	0.11	ND	**103**	70-130					
TRICHLOROFLUOROMETHANE	0.09	ND	**105**	70-130					
ACETONE	1.18	ND	**98**	70-130					
ACRYLONITRILE	12.38	ND	**109**	70-130					
2-BUTANONE	0.88	ND	**89**	70-130					
1,1-DICHLOROETHENE	0.09	ND	**100**	70-130	**104**	**98**	**6**	**14**	**70-130**
METHYL IODIDE	0.19	ND	**112**	70-130					
CARBON DISULFIDE	0.45	ND	**99**	70-130					
METHYLENE CHLORIDE	0.57	ND	**97**	70-130					
TRANS-1,2-DICHLOROETHENE	0.10	ND	**99**	70-130					
1,1-DICHLOROETHANE	0.17	ND	**99**	70-130					
ISOPROPYL ETHER(IPE)	0.12	ND	**97**	70-130					
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	**99**	70-130					
VINYL ACETATE	0.24	ND	**92**	70-130					
CIS-1,2-DICHLOROETHENE	0.09	ND	**100**	70-130					
2,2-DICHLOROPROPANE	0.09	ND	**101**	70-130					
BROMOCHLOROMETHANE	0.12	ND	**94**	70-130					
CHLOROFORM	0.05	ND	**101**	70-130					
1,1,1-TRICHLOROETHANE	0.12	ND	**106**	70-130					
CARBON TETRACHLORIDE	0.10	ND	**109**	70-130					
1,1-DICHLOROPROPENE	0.12	ND	**102**	70-130					
BENZENE	0.05	ND	**98**	70-130	**106**	**102**	**3**	**11**	**70-130**
ETHYL ACETATE	0.35	ND	**91**	70-130					
1,2-DICHLOROETHANE	0.09	ND	**99**	70-130					
TRICHLOROETHENE(TCE)	0.12	ND	**103**	70-130	**101**	**99**	**2**	**14**	**70-130**
1,2-DICHLOROPROPANE	0.10	ND	**101**	70-130					
DIBROMOETHANE	0.25	ND	**99**	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0301** |

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

SAMPLE ID:	1178-04 – 06			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	**106**	70-130					
4-METHYL-2-PENTANONE	1.01	ND	**93**	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	**109**	70-130					
TOLUENE	0.26	ND	**108**	70-130	**103**	**97**	**6**	**13**	**70-130**
TRANS-1,3-DICHLOROPROPENE	0.12	ND	**98**	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	**102**	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	**102**	70-130					
2-HEXANONE	1.42	ND	**93**	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	**108**	70-130					
1,3-DICHLOROPROPANE	0.13	ND	**102**	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	**100**	70-130					
CHLOROBENZENE	0.10	ND	**108**	70-130	**103**	**106**	**2**	**13**	**70-130**
1,1,1,2-TETRACHLOROETHANE	0.10	ND	**111**	70-130					
ETHYLBENZENE	0.07	ND	**112**	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	**111**	70-130					
STYRENE	0.04	ND	**113**	70-130					
BROMOFORM	0.29	ND	**112**	70-130					
ISOPROPYLBENZENE	0.08	ND	**109**	70-130					
BROMOBENZENE	0.07	ND	**104**	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	**103**	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	**97**	70-130					
N-PROPYLBENZENE	0.08	ND	**107**	70-130					
2-CHLOROTOLUENE	0.10	ND	**108**	70-130					
4-CHLOROTOLUENE	0.09	ND	**107**	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	**109**	70-130					
TERT-BUTYLBENZENE	0.08	ND	**107**	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	**106**	70-130					
SEC-BUTYLBENZENE	0.12	ND	**107**	70-130					
1,3-DICHLOROBENZENE	0.12	ND	**108**	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	**102**	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	**113**	70-130					
1,4-DICHLOROBENZENE	0.08	ND	**112**	70-130					
1,2-DICHLOROBENZENE	0.09	ND	**111**	70-130					
N-BUTYLBENZENE	0.10	ND	**106**	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	**97**	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	**108**	70-130					
NAPHTHALENE	0.18	ND	**101**	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	**105**	70-130					

COMMENTS:

QA/QC Summary

Method: 625 (100/200 PPB QC)	FILE NAME: WLC0226-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

SAMPLE ID:	1178--04-06				INSTRUMENT:MS-1			
Extraction Method	3510							
Date Extracted	02/25/15							
Weight Extracted	1L							
Final Extract Volume	1ML							
Date Analyzed	02/26/15							
% Surrogate Recovery	58	39	75	87	72		76	
Acceptance Range	(5 - 77)	(7 - 64)	(29 - 149)	(12 - 123)	(10 - 133)		(20 - 133)	

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.970	ND	55	8-104					
Bis(2-chloroethyl)ether	0.430	ND	86	45-111					
Phenol	0.460	ND	44	D-76	27	33	21	42	12-110
2-Chlorophenol	0.300	ND	85	30-107	64	79	20	40	27-123
1,3-Dichlorobenzene	0.250	ND	83	48-90					
1,4-Dichlorobenzene	0.200	ND	77	50-90	50	61	20	28	36-97
1,2-Dichlorobenzene	0.100	ND	81	50-93					
Bis(2-chloroisopropyl)ether	0.380	ND	106	50-107					
N-nitrosodi-n-propylamine	0.500	ND	89	47-111	72	94	26	38	41-116
Hexachloroethane	0.220	ND	77	36-90					
2-Nitrophenol	0.670	ND	84	33-110					
2,4-Dimethylphenol	1.550	ND	76	43-100					
Nitrobenzene	0.500	ND	78	46-112					
Isophorone	0.510	ND	73	50-104					
Bis(2-chloroethoxy)methane	0.420	ND	85	49-105					
2,4-Dichlorophenol	0.540	ND	78	33-108					
1,2,4-Trichlorobenzene	0.560	ND	70	47-95	71	85	18	28	39-98
4-Chloro-3-methylphenol	1.830	ND	81	44-107	76	94	21	42	23-97
Naphthalene	0.710	ND	77	50-96					
Hexachlorobutadiene	0.770	ND	66	24-100					
2,4,6-Trichlorophenol	0.540	ND	87	22-124					
2-Methyl-4,6-Dinitrophenol	3.250	ND	98	16-115					
4-Nitrophenol	6.670	ND	49	1-69	24	25	1	50	10-80
Hexachlorocyclopentadiene	0.970	ND	64	16-85					

N/A = Data Not Available * = FAILED

QA/QC Summary

Method: 625 (100/200 PPB QC) | **FILE NAME: WLC0226-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS %REC
2-Chloronaphthalene	0.420	ND	87	51-100					
Dimethyl phthalate	0.400	ND	80	47-107					
Acenaphthylene	0.150	ND	80	49-100					
2,6-Dinitrotoluene	0.670	ND	98	49-106					
Acenaphthene	0.280	ND	79	48-102	59	67	13	31	46-118
2,4-Dinitrotoluene	0.670	ND	77	50-106	50	65	26	38	24-96
Diethyl phthalate	0.820	ND	87	49-107					
4-Chlorophenyl phenyl ether	0.730	ND	67	43-112					
2,4-Dinitrophenol	4.190	ND	96	D-118					
Pentachlorophenol	5.220	ND	87	15-123	38	51	30	50	9-103
N-Nitrosodiphenylamine	1.150	ND	83	35-121					
4-Bromophenyl phenyl ether	0.670	ND	91	48-107					
Hexachlorobenzene	0.390	ND	96	50-102					
Phenanthrene	0.280	ND	82	42-105					
Anthracene	0.200	ND	99	44-104					
Di-N-Butyl phthalate	0.650	ND	79	44-111					
Benzidine	3.370	ND	10	D-48					
Pyrene	1.920	ND	76	39-107	58	68	17	31	26-127
Benzyl butyl phthalate	1.220	ND	86	39-116					
Benzo(a)anthracene	0.380	ND	87	36-114					
3,3-Dichlorobenzidine	5.050	ND	29	6-52					
Chrysene	0.700	ND	90	45-99					
Bis(2-ethyl-hexyl)phthalate	1.140	ND	71	30-134					
Di-N-Octyl phthalate	0.740	ND	77	37-131					
Benzo(b)fluoranthene	0.770	ND	89	49-107					
Benzo(k)fluoranthene	0.600	ND	63	37-112					
Benzo(a)pyrene	0.430	ND	77	49-105					
Indeno(1,2,3-cd) pyrene	1.210	ND	89	38-122					
Dibenzo(a,h)anthracene	1.680	ND	89	43-118					
Benzo(g,h,i)perylene	1.780	ND	79	42-119					

N/A = Data Not Available *** = FAILED**

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 25 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (mg/kg)	SB1-8-10 (mg/kg)	SB1-15-17 (mg/kg)	SB2-3-5 (mg/kg)	SB2-15-17 (mg/kg)	SB3-15-17 (mg/kg)	SB3-23-25 (mg/kg)
Acetone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Benzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromodichloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromoform	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
2-Butanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
N-Butylbenzene	0.005	6.03	4.96	2.51	3.16	3.85	5.85
Sec-Butylbenzene	0.005	3.16	2.54	BQL	1.39	2.32	3.95
Tert-Butylbenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Carbon Tetrachloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Chlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Dibromochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Chloroethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Chloroform	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Chloromethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
2-Chlorotoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
4-Chlorotoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dibromoethane (EDB)	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,4-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Dichlorodifluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Cis-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
2,2-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Cis-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Ethyl Acetate	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Ethyl Benzene	0.005	20.8	12.0	7.87	3.69	6.35	21.1
2-Hexanone	0.050	BQL	BQL	BQL	BQL	BQL	BQL
I-Propylbenzene	0.005	6.16	4.65	2.23	2.13	2.94	6.77
Isopropyl ether (IPE)	0.010	BQL	BQL	BQL	BQL	BQL	BQL
p-Isopropyltoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Methylene Chloride	0.020	BQL	BQL	BQL	BQL	BQL	BQL
4-Methyl-2-Pentanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-Tert-Butyl ether (MTBE)	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	0.010	15.9	23.7	8.79	20.0	15.9	27.7
N-Propylbenzene	0.005	13.0	9.38	6.06	4.50	5.84	12.3
Styrene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Tetrachloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1,1-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trichlorofluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,3-Trichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,3-Trichloropropane	0.015	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trimethylbenzene	0.005	6.84	56.1	30.9	33.5	39.3	71.5
1,3,5-Trimethylbenzene	0.005	BQL	38.3	22.5	24.4	27.6	51.9
Vinyl Acetate	0.050	BQL	BQL	BQL	BQL	BQL	BQL
Vinyl Chloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	0.005	7.67	66.7	17.7	25.9	24.6	84.9
Carbon Disulfide	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Acrylonitrile	0.200	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Methyl Iodide	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Dibromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL	BQL	BQL	BQL	BQL
Ethanol	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Dilution Factor		200	500	200	200	200	200
Sample Number		1279-01	1279-02	1279-03	1279-04	1279-05	1279-06
Sample Date		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
Sample Time (hrs)		0846	0851	0929	0938	1025	1030
Date Analyzed		03/06/15	03/03/15	03/06/15	03/06/15	03/06/15	03/06/15
Time Analyzed		1846	1830	1917	1947	2017	2048
Surrogate Recovery (DBFM)	Range (70-130%)	90%	95%	94%	98%	97%	89%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	118%	92%	101%	92%	92%	105%
Surrogate Recovery (4-BFB)	Range (70-130%)	113%	111%	105%	100%	107%	102%

mg/kg = milligrams per kilogram = parts per million (ppm)

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 25 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (mg/kg)	SB4-15-17 (mg/kg)	SB4-23-25 (mg/kg)	SB5-2-5 (mg/kg)	SB5-15-17 (mg/kg)	SB6-15-17 (mg/kg)	SB6-23-25 (mg/kg)
Acetone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Benzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromodichloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromoform	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Bromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
2-Butanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
N-Butylbenzene	0.005	0.868	2.45	1.83	2.07	BQL	0.372
Sec-Butylbenzene	0.005	0.437	1.50	1.12	1.06	BQL	BQL
Tert-Butylbenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Carbon Tetrachloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Chlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Dibromochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Chloroethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Chloroform	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Chloromethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
2-Chlorotoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
4-Chlorotoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dibromoethane (EDB)	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,4-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Dichlorodifluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Cis-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
2,2-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Cis-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Ethyl Acetate	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Ethyl Benzene	0.005	0.492	1.88	1.23	1.67	BQL	BQL
2-Hexanone	0.050	BQL	BQL	BQL	BQL	BQL	BQL
I-Propylbenzene	0.005	0.346	1.34	0.977	0.953	BQL	BQL
Isopropyl ether (IPE)	0.010	BQL	BQL	BQL	BQL	BQL	BQL
p-Isopropyltoluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Methylene Chloride	0.020	BQL	BQL	BQL	BQL	BQL	BQL
4-Methyl-2-Pentanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-Tert-Butyl ether (MTBE)	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	0.010	4.23	10.7	5.32	7.95	0.036	1.21
N-Propylbenzene	0.005	0.922	2.77	2.07	1.93	BQL	BQL
Styrene	0.010	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Tetrachloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1,1-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,1,2-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
Trichlorofluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,3-Trichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2,3-Trichloropropane	0.015	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trimethylbenzene	0.005	6.73	22.3	5.43	16.6	0.029	2.01
1,3,5-Trimethylbenzene	0.005	3.90	13.9	4.06	11.1	0.015	1.04
Vinyl Acetate	0.050	BQL	BQL	BQL	BQL	BQL	BQL
Vinyl Chloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	0.005	2.01	12.0	0.880	7.95	0.014	BQL
Carbon Disulfide	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Acrylonitrile	0.200	BQL	BQL	BQL	BQL	BQL	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Methyl Iodide	0.010	BQL	BQL	BQL	BQL	BQL	BQL
Dibromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL	BQL	BQL	BQL	BQL
Ethanol	0.100	BQL	BQL	BQL	BQL	BQL	BQL
Dilution Factor		50	100	50	50	1	50
Sample Number		1279-07	1279-08	1279-09	1279-10	1279-11	1279-12
Sample Date		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
Sample Time (hrs)		1124	1129	1205	1214	1420	1425
Date Analyzed		03/06/15	03/06/15	03/06/15	03/06/15	03/10/15	03/06/15
Time Analyzed		2119	2149	2219	2250	1656	2350
Surrogate Recovery (DBFM)	Range (70-130%)	94%	93%	85%	92%	107%	93%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	97%	91%	121%	100%	98%	104%
Surrogate Recovery (4-BFB)	Range (70-130%)	116%	125%	98%	109%	102%	107%

mg/kg = milligrams per kilogram = parts per million (ppm)

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 25 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (mg/kg)	SB1-8-10 (mg/kg)	SB1-15-17 (mg/kg)	SB2-3-5 (mg/kg)	SB2-15-17 (mg/kg)	SB3-15-17 (mg/kg)	SB3-23-25 (mg/kg)
Acenaphthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthylene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzoic Acid	6.67	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(a)anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(b)fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(k)fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(ghi)perylene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(a)pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzyl Alcohol	3.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroethoxy)methane	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroethyl)ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroisopropyl)ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-ethyl-hexyl)phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Bromophenyl phenyl ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzyl butyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Chloroaniline	1.65	BQL	BQL	BQL	BQL	BQL	BQL
4-Chloro-3-methylphenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Chloronaphthalene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Chlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Chlorophenyl phenyl ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Chrysene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dibenzo(a,h)anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dibenzofuran	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Di-N-Butyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,4-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
3,3-Dichlorobenzidine	0.66	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dichlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Diethyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dimethylphenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dimethyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4,6-Dinitro-2-methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dinitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dinitrotoluene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,6-Dinitrotoluene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Di-N-Octyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Azobenzene	3.33	BQL	BQL	BQL	BQL	BQL	BQL
Fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorobutadiene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorocyclopentadiene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachloroethane	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Indeno(1,2,3-cd) pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Isophorone	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	0.33	7.53	3.75	0.736	BQL	5.75	13.2
2-Methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
4-Methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Nitrobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Nitrophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Nitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
N-Nitrosodiphenylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
N-nitrosodi-n-propylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Pentachlorophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Phenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,4,6-Trichlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Benzidine	1.65	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Diphenylhydrazine	1.65	BQL	BQL	BQL	BQL	BQL	BQL
N-Nitrosodimethylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Napthalene	0.33	12.6	10.5	1.80	5.79	7.41	20.2
1-Methylnaphthalene	0.33	3.77	BQL	0.348	BQL	BQL	5.29
Dilution Factor		10	10	1	10	10	10
Sample Number		1279-01	1279-02	1279-03	1279-04	1279-05	1279-06
Sample Date		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
Sample Time (hrs)		0846	0851	0929	0938	1025	1030
Date Extracted		03/05/15	03/05/15	03/05/15	03/05/15	03/05/15	03/05/15
Date Analyzed		03/09/15	03/09/15	03/09/15	03/09/15	03/09/15	03/09/15
Time Analyzed		1420	1447	1948	1542	1609	1637
Surrogate Recovery	Range						
(2-Fluorophenol)	(21-110%)	Dilution	Dilution	62%	Dilution	Dilution	Dilution
(Phenol-d6)	(10-110%)	Dilution	Dilution	50%	Dilution	Dilution	Dilution
(Nitrobenzene-d5)	(35-114%)	Dilution	Dilution	94%	Dilution	Dilution	Dilution
(2,4,6-Tribromophenol)	(10-123%)	Dilution	Dilution	71%	Dilution	Dilution	Dilution
(2-Fluorobiphenyl)	(43-116%)	Dilution	Dilution	78%	Dilution	Dilution	Dilution
(4-Terphenyl-d14)	(33-141%)	Dilution	Dilution	69%	Dilution	Dilution	Dilution

mg/kg = milligrams per kilogram = parts per million (ppm) BNA = Base-Neutral Acid Extractables BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 25 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (mg/kg)	SB4-15-17 (mg/kg)	SB4-23-25 (mg/kg)	SB5-2-5 (mg/kg)	SB5-15-17 (mg/kg)	SB6-15-17 (mg/kg)	SB6-23-25 (mg/kg)
Acenaphthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthylene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzoic Acid	6.67	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(a)anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(b)fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(k)fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(ghi)perylene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzo(a)pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzyl Alcohol	3.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroethoxy)methane	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroethyl)ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-chloroisopropyl)ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Bis(2-ethyl-hexyl)phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Bromophenyl phenyl ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Benzyl butyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Chloroaniline	1.65	BQL	BQL	BQL	BQL	BQL	BQL
4-Chloro-3-methylphenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Chloronaphthalene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Chlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Chlorophenyl phenyl ether	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Chrysene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dibenzo(a,h)anthracene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dibenzofuran	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Di-N-Butyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,3-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,4-Dichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
3,3-Dichlorobenzidine	0.66	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dichlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Diethyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dimethylphenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Dimethyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4,6-Dinitro-2-methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dinitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
2,4-Dinitrotoluene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,6-Dinitrotoluene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Di-N-Octyl phthalate	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Azobenzene	3.33	BQL	BQL	BQL	BQL	BQL	BQL
Fluoranthene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorobutadiene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachlorocyclopentadiene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Hexachloroethane	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Indeno(1,2,3-cd) pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Isophorone	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	0.33	**3.52**	**4.57**	**1.84**	**0.635**	BQL	**1.30**
2-Methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
4-Methylphenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Nitrobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Nitrophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
4-Nitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
N-Nitrosodiphenylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
N-nitrosodi-n-propylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Pentachlorophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Phenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
1,2,4-Trichlorobenzene	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2,4,6-Trichlorophenol	0.33	BQL	BQL	BQL	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	1.65	BQL	BQL	BQL	BQL	BQL	BQL
Benzidine	1.65	BQL	BQL	BQL	BQL	BQL	BQL
1,2-Diphenylhydrazine	1.65	BQL	BQL	BQL	BQL	BQL	BQL
N-Nitrosodimethylamine	0.33	BQL	BQL	BQL	BQL	BQL	BQL
Napthalene	0.33	**3.76**	**5.59**	**0.932**	**0.800**	BQL	**0.600**
1-Methylnaphthalene	0.33	BQL	BQL	**0.462**	BQL	BQL	**0.667**
Dilution Factor		5	10	1	1	1	1
Sample Number		1279-07	1279-08	1279-09	1279-10	1279-11	1279-12
Sample Date		02/25/15	02/25/15	02/25/15	02/25/15	02/25/15	02/25/15
Sample Time (hrs)		1124	1129	1205	1214	1420	1425
Date Extracted		03/05/15	03/05/15	03/05/15	03/05/15	03/05/15	03/05/15
Date Analyzed		03/09/15	03/09/15	03/09/15	03/09/15	03/09/15	03/09/15
Time Analyzed		2016	1731	2043	1826	1853	1921
Surrogate Recovery	Range						
(2-Fluorophenol)	(21-110%)	Dilution	Dilution	56%	57%	46%	58%
(Phenol-d6)	(10-110%)	Dilution	Dilution	50%	48%	45%	47%
(Nitrobenzene-d5)	(35-114%)	Dilution	Dilution	93%	99%	59%	106%
(2,4,6-Tribromophenol)	(10-123%)	Dilution	Dilution	56%	61%	48%	57%
(2-Fluorobiphenyl)	(43-116%)	Dilution	Dilution	58%	60%	48%	58%
(4-Terphenyl-d14)	(33-141%)	Dilution	Dilution	61%	64%	46%	62%

mg/kg = milligrams per kilogram = parts per million (ppm) BNA = Base-Neutral Acid Extractables BQL = Below Quantitation Limits

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSES

Chemical Analysis for Selected Parameters and Sampling Location Identified as 955 Brookstown
(A Piedmont Industrial Project, collected 25 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (ppb)	SB6 (ppb)
Acetone	25	BQL
Acrolein	100	BQL
Acrylonitrile	100	BQL
Benzene	0.5	BQL
Bromobenzene	0.5	BQL
Bromochloromethane	0.5	BQL
Bromodichloromethane	0.5	BQL
Bromoform	1.0	BQL
Bromomethane	1.0	BQL
2-Butanone	25	BQL
Carbon Disulfide	5.0	BQL
Carbon Tetrachloride	0.5	BQL
Chlorobenzene	0.5	BQL
Chloroethane	1.0	BQL
2-Chloroethyl vinyl ether	5.0	BQL
Chloroform	0.5	BQL
Chloromethane	1.0	BQL
2-Chlorotoluene	0.5	BQL
4-Chlorotoluene	0.5	BQL
Cis-1,2-Dichloroethene	0.5	BQL
Cis-1,3-Dichloropropene	0.5	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	5.0	BQL
1,2-Dibromoethane (EDB)	0.5	BQL
Dibromochloromethane	0.5	BQL
Dibromomethane	0.5	BQL
1,2-Dichlorobenzene	0.5	BQL
1,3-Dichlorobenzene	0.5	BQL
1,4-Dichlorobenzene	0.5	BQL
1,1-Dichloroethane	0.5	BQL
1,2-Dichloroethane	0.5	BQL
1,1-Dichloroethene	0.5	BQL
Dichloroflouromethane	0.5	BQL
1,2-Dichloropropane	0.5	BQL
1,3-Dichloropropane	0.5	BQL
2,2-Dichloropropane	0.5	BQL
1,1-Dichloropropene	0.5	BQL
Ethyl Benzene	0.5	BQL
2-Hexanone	5.0	BQL
IPE	0.5	BQL
I-Propylbenzene	0.5	BQL
4-Methyl-2-Pentanone	5.0	BQL
Methyl Iodide	1.0	BQL
Methylene Chloride	5.0	BQL
MTBE	0.5	BQL
Naphthalene	0.5	BQL
N-Butylbenzene	0.5	BQL
N-Propylbenzene	0.5	BQL
p-Isopropyltoluene	0.5	BQL
Sec-Butylbenzene	0.5	BQL
Styrene	0.5	BQL
Tert-Butylbenzene	0.5	BQL
1,1,1,2-Tetrachloroethane	0.5	BQL
1,1,2,2-Tetrachloroethane	0.5	BQL
Tetrachloroethene	0.5	3.55
Toluene	0.5	BQL
Trans-1,2-Dichloroethene	0.5	BQL
Trans-1,3-Dichloropropene	0.5	BQL
Trans-1,4-Dichloro-2-butene	5.0	BQL
1,2,3-Trichlorobenzene	0.5	BQL
1,2,4-Trichlorobenzene	0.5	BQL
1,1,1-Trichloroethane	0.5	BQL
1,1,2-Trichloroethane	0.5	BQL
Trichloroethene	0.5	BQL
Trichlorofluoromethane	0.5	BQL
1,2,3-Trichloropropane	0.5	BQL
1,2,4-Trimethylbenzene	0.5	0.70
1,3,5-Trimethylbenzene	0.5	BQL
Vinyl Acetate	1.0	BQL
Vinyl Chloride	0.5	BQL
Total Xylenes	1.0	BQL
Dilution Factor		1
Sample Number		1279-13
Sample Date		02/25/15
Sample Time (hrs)		1505
Date Analyzed		03/02/15
Time Analyzed		0048
Surrogate Recovery (DBFM)	Range (70-130%)	113%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	105%
Surrogate Recovery (4-BFB)	Range (70-130%)	96%

BQL = Below Quantitation Limit

ppb = parts per billion

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSTS

Chemical Analysis for Selected Parameters and Sampling Location Identified as 955 Brookstown
(A Piedmont Industrial Project, collected 25 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (ppb)	SB6 (ppb)
4-Chloro-3-methylphenol	10.0	BQL
2-Chlorophenol	10.0	BQL
2,4-Dichlorophenol	10.0	BQL
2,4-Dimethylphenol	10.0	BQL
2,4-Dinitrophenol	50.0	BQL
2-Methyl-4,6-dinitrophenol	50.0	BQL
2-Nitrophenol	10.0	BQL
4-Nitrophenol	50.0	BQL
Pentachlorophenol	50.0	BQL
Phenol	10.0	BQL
2,4,6-Trichlorophenol	10.0	BQL
Acenaphthene	10.0	BQL
Acenaphthylene	10.0	BQL
Anthracene	10.0	BQL
Benzidine	50.0	BQL
Benzo(a)anthracene	10.0	BQL
Benzo(a)pyrene	10.0	BQL
Benzo(b)fluoranthene	10.0	BQL
Benzo(ghi)perylene	10.0	BQL
Benzo(k)fluoranthene	10.0	BQL
Benzyl butyl phthalate	10.0	BQL
Bis(2-chloroethoxy)methane	10.0	BQL
Bis(2-chloroethyl)ether	10.0	BQL
Bis(2-chloroisopropyl)ether	10.0	BQL
Bis(2-ethyl-hexyl)phthalate	10.0	BQL
4-Bromophenyl phenyl ether	10.0	BQL
2-Chloronaphthalene	10.0	BQL
4-Chlorophenyl phenyl ether	10.0	BQL
Chrysene	10.0	BQL
Dibenzo(a,h)anthracene	10.0	BQL
1,2-Dichlorobenzene	10.0	BQL
1,3-Dichlorobenzene	10.0	BQL
1,4-Dichlorobenzene	10.0	BQL
3,3-Dichlorobenzidine	20.0	BQL
Diethyl phthalate	10.0	BQL
Dimethyl phthalate	10.0	BQL
Di-N-Butyl phthalate	10.0	BQL
2,4-Dinitrotoluene	10.0	BQL
2,6-Dinitrotoluene	10.0	BQL
Di-N-Octyl phthalate	10.0	BQL
1,2-Diphenylhydrazine	50.0	BQL
Fluoranthene	10.0	BQL
Fluorene	10.0	BQL
Hexachlorobenzene	10.0	BQL
Hexachlorobutadiene	10.0	BQL
Hexachlorocyclopentadiene	10.0	BQL
Hexachloroethane	10.0	BQL
Indeno(1,2,3-cd) pyrene	10.0	BQL
Isophorone	10.0	BQL
Naphthalene	10.0	BQL
Nitrobenzene	10.0	BQL
N-Nitrosodimethylamine	10.0	BQL
N-nitrosodi-n-propylamine	10.0	BQL
N-Nitrosodiphenylamine	10.0	BQL
Phenanthrene	10.0	BQL
Pyrene	10.0	BQL
1,2,4-Trichlorobenzene	10.0	BQL
2-Methylnaphthalene	10.0	BQL
1-Methylnaphthalene	10.0	BQL
Dilution Factor		1
Sample Number		1279-13
Sample Date		02/25/15
Sample Time (hrs)		1505
Date Extracted		03/03/15
Date Analyzed		03/05/15
Time Analyzed		1725
Surrogate Recovery	**Range**	
(2-Fluorophenol)	(21-110%)	46%
(Phenol-d6)	(10-110%)	27%
(Nitrobenzene-d5)	(35-114%)	82%
(2,4,6-Tribromophenol)	(10-123%)	69%
(2-Fluorobiphenyl)	(43-116%)	66%
(4-Terphenyl-d14)	(33-141%)	75%

BNA = Base-Neutral Acid Extractables

ppb = parts per billion

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Piedmont Industrial Services
STREET ADDRESS: 1680 Lowery Street
CITY, STATE, ZIP: Winston-Salem NC 27101
CONTACT: Jason Jomp
PHONE: 722-6505
JOB NO.: Reece
PROJECT: 955 Brookstown
SAMPLER NAME (PLEASE PRINT): Jason Jomp
SAMPLER SIGNATURE: [signature]

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P.G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P.G (COD, N, P) H_2SO_4	1L P.G (Metals, Hardness) HNO_3	Sterile P.G (CYANIDE) NaOH	Sterile P.G (Coliform)	REQUESTED ANALYSIS
1279-01	2/25	846		X				S	SB1-8-10	5											EPA Method 8260/8270
02		851		X				S	SB1-15-17	5											
03		929		X				S	SB2-3-5	5											
04		938		X				S	SB2-15-17	5											
05		1025		X				S	SB3-15-17	5											
06		1030		X				S	SB3-23-25	5											
07		1124		X				S	SB4-15-17	5											
08		1129		X				S	SB4-23-25	5											
09		1205		X				S	SB5-2-5	5											
10		1214		X				S	SB5-15-17	5											
11		1420		X				S	SB6-15-17	5											
12		1425		X				S	SB6-23-25	5											
13	↓	1505		X				W	SB6	6											↓

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	2/26/15 940	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: IHSB - Brownfields Site / EPA Method 8260/8270 on soil and water. Please note all soils exhibited a strong petroleum odor.

SAMPLE TEMPERATURE AT RECEIPT 3.1 °C ON ICE

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

One (1) water and twelve (12) soil samples were received in good condition 26 February 2015. The samples were analyzed without difficulties unless noted below.

03/13/15

Sidney L. Champion
Director of Laboratory Services

Date

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 336-996-2841 • Fax 336-996-0326
www.randalabs.com

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0301**

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

Sample ID:	1279-13				INSTUMENT: MS-2			Page 1 of 2	
Extraction Method	N/A								
Date Extracted	N/A								
Weight Extracted	25ML								
Final Extract Volume	25ML								
Date Analyzed	03/01/15								
% Surrogate Recovery	99	98	96						
Acceptance Range	(70-130)	(70-130)	(70-130)						
Compound	MDL ug/L	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
DICHLORODIFLUOROMETHANE	0.12	ND	92	70-130					
CHLOROMETHANE	0.07	ND	85	70-130					
VINYL CHLORIDE	0.11	ND	102	70-130					
BROMOMETHANE	0.18	ND	108	70-130					
CHLOROETHANE	0.11	ND	103	70-130					
TRICHLOROFLUOROMETHANE	0.09	ND	105	70-130					
ACETONE	1.18	ND	98	70-130					
ACRYLONITRILE	12.38	ND	109	70-130					
2-BUTANONE	0.88	ND	89	70-130					
1,1-DICHLOROETHENE	0.09	ND	100	70-130	104	98	6	14	70-130
METHYL IODIDE	0.19	ND	112	70-130					
CARBON DISULFIDE	0.45	ND	99	70-130					
METHYLENE CHLORIDE	0.57	ND	97	70-130					
TRANS-1,2-DICHLOROETHENE	0.10	ND	99	70-130					
1,1-DICHLOROETHANE	0.17	ND	99	70-130					
ISOPROPYL ETHER(IPE)	0.12	ND	97	70-130					
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	99	70-130					
VINYL ACETATE	0.24	ND	92	70-130					
CIS-1,2-DICHLOROETHENE	0.09	ND	100	70-130					
2,2-DICHLOROPROPANE	0.09	ND	101	70-130					
BROMOCHLOROMETHANE	0.12	ND	94	70-130					
CHLOROFORM	0.05	ND	101	70-130					
1,1,1-TRICHLOROETHANE	0.12	ND	106	70-130					
CARBON TETRACHLORIDE	0.10	ND	109	70-130					
1,1-DICHLOROPROPENE	0.12	ND	102	70-130					
BENZENE	0.05	ND	98	70-130	106	102	3	11	70-130
ETHYL ACETATE	0.35	ND	91	70-130					
1,2-DICHLOROETHANE	0.09	ND	99	70-130					
TRICHLOROETHENE(TCE)	0.12	ND	103	70-130	101	99	2	14	70-130
1,2-DICHLOROPROPANE	0.10	ND	101	70-130					
DIBROMOETHANE	0.25	ND	99	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0301** |

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: BROOKSTOWN)

SAMPLE ID:	1279-13			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	106	70-130					
4-METHYL-2-PENTANONE	1.01	ND	93	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	109	70-130					
TOLUENE	0.26	ND	108	70-130	103	97	6	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	98	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	102	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	102	70-130					
2-HEXANONE	1.42	ND	93	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	108	70-130					
1,3-DICHLOROPROPANE	0.13	ND	102	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	100	70-130					
CHLOROBENZENE	0.10	ND	108	70-130	103	106	2	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	111	70-130					
ETHYLBENZENE	0.07	ND	112	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	111	70-130					
STYRENE	0.04	ND	113	70-130					
BROMOFORM	0.29	ND	112	70-130					
ISOPROPYLBENZENE	0.08	ND	109	70-130					
BROMOBENZENE	0.07	ND	104	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	103	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	97	70-130					
N-PROPYLBENZENE	0.08	ND	107	70-130					
2-CHLOROTOLUENE	0.10	ND	108	70-130					
4-CHLOROTOLUENE	0.09	ND	107	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	109	70-130					
TERT-BUTYLBENZENE	0.08	ND	107	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	106	70-130					
SEC-BUTYLBENZENE	0.12	ND	107	70-130					
1,3-DICHLOROBENZENE	0.12	ND	108	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	102	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	113	70-130					
1,4-DICHLOROBENZENE	0.08	ND	112	70-130					
1,2-DICHLOROBENZENE	0.09	ND	111	70-130					
N-BUTYLBENZENE	0.10	ND	106	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	97	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	108	70-130					
NAPHTHALENE	0.18	ND	101	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	105	70-130					

COMMENTS:

QA/QC Summary

Method: 625 (100/200 PPB QC)	FILE NAME: WLC0305-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

SAMPLE ID:	1279-13				INSTRUMENT:MS-1			
Extraction Method	3510							
Date Extracted	03/03/15							
Weight Extracted	1L							
Final Extract Volume	1ML							
Date Analyzed	03/05/15							
% Surrogate Recovery	49	35	70	77	73		69	
Acceptance Range	(5 - 77)	(7 - 64)	(29 - 149)	(12 - 123)	(10 - 133)		(20 - 133)	

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.970	ND	53	8-104					
Bis(2-chloroethyl)ether	0.430	ND	72	45-111					
Phenol	0.460	ND	38	D-76	28	26	4	42	12-110
2-Chlorophenol	0.300	ND	75	30-107	67	65	3	40	27-123
1,3-Dichlorobenzene	0.250	ND	75	48-90					
1,4-Dichlorobenzene	0.200	ND	66	50-90	50	50	0	28	36-97
1,2-Dichlorobenzene	0.100	ND	71	50-93					
Bis(2-chloroisopropyl)ether	0.380	ND	88	50-107					
N-nitrosodi-n-propylamine	0.500	ND	82	47-111	68	68	0	38	41-116
Hexachloroethane	0.220	ND	67	36-90					
2-Nitrophenol	0.670	ND	73	33-110					
2,4-Dimethylphenol	1.550	ND	66	43-100					
Nitrobenzene	0.500	ND	72	46-112					
Isophorone	0.510	ND	65	50-104					
Bis(2-chloroethoxy)methane	0.420	ND	73	49-105					
2,4-Dichlorophenol	0.540	ND	75	33-108					
1,2,4-Trichlorobenzene	0.560	ND	67	47-95	67	66	2	28	39-98
4-Chloro-3-methylphenol	1.830	ND	73	44-107	72	74	3	42	23-97
Naphthalene	0.710	ND	69	50-96					
Hexachlorobutadiene	0.770	ND	62	24-100					
2,4,6-Trichlorophenol	0.540	ND	87	22-124					
2-Methyl-4,6-Dinitrophenol	3.250	ND	82	16-115					
4-Nitrophenol	6.670	ND	45	1-69	26	24	7	50	10-80
Hexachlorocyclopentadiene	0.970	ND	58	16-85					

N/A = Data Not Available * = FAILED

QA/QC Summary

Method: 625 (100/200 PPB QC) | **FILE NAME: WLC0305-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS %REC
2-Chloronaphthalene	0.420	ND	84	51-100					
Dimethyl phthalate	0.400	ND	73	47-107					
Acenaphthylene	0.150	ND	83	49-100					
2,6-Dinitrotoluene	0.670	ND	66	49-106					
Acenaphthene	0.280	ND	83	48-102	66	61	9	31	46-118
2,4-Dinitrotoluene	0.670	ND	79	50-106	55	52	6	38	24-96
Diethyl phthalate	0.820	ND	80	49-107					
4-Chlorophenyl phenyl ether	0.730	ND	75	43-112					
2,4-Dinitrophenol	4.190	ND	86	D-118					
Pentachlorophenol	5.220	ND	83	15-123	46	43	7	50	9-103
N-Nitrosodiphenylamine	1.150	ND	86	35-121					
4-Bromophenyl phenyl ether	0.670	ND	95	48-107					
Hexachlorobenzene	0.390	ND	75	50-102					
Phenanthrene	0.280	ND	87	42-105					
Anthracene	0.200	ND	77	44-104					
Di-N-Butyl phthalate	0.650	ND	92	44-111					
Benzidine	3.370	ND	10	D-48					
Pyrene	1.920	ND	77	39-107	54	53	1	31	26-127
Benzyl butyl phthalate	1.220	ND	71	39-116					
Benzo(a)anthracene	0.380	ND	80	36-114					
3,3-Dichlorobenzidine	5.050	ND	28	6-52					
Chrysene	0.700	ND	82	45-99					
Bis(2-ethyl-hexyl)phthalate	1.140	ND	67	30-134					
Di-N-Octyl phthalate	0.740	ND	68	37-131					
Benzo(b)fluoranthene	0.770	ND	80	49-107					
Benzo(k)fluoranthene	0.600	ND	59	37-112					
Benzo(a)pyrene	0.430	ND	67	49-105					
Indeno(1,2,3-cd) pyrene	1.210	ND	80	38-122					
Dibenzo(a,h)anthracene	1.680	ND	76	43-118					
Benzo(g,h,i)perylene	1.780	ND	73	42-119					

N/A = Data Not Available * = FAILED

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0303**

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

Sample ID:	**1279-02**				**INSTUMENT: MS-2**		**Page 1 of 2**
Extraction Method	5035						
Date Extracted	N/A						
Weight Extracted	5G/5ML						
Final Extract Volume	5G/5ML						
Date Analyzed	03/03/15						
% Surrogate Recovery	98	99	101				
Acceptance Range	(70-130)	(70-130)	(70-130)				

Compound	**MDL** mg/kg	**Method Blank**	**LCS % Recovery**	**LCS Acceptance Range**	**MS % Rec.**	**MSD % Rec.**	**RPD**	**QC LIMITS RPD**	**QC LIMITS % REC**
DICHLORODIFLUOROMETHANE	0.00047	ND	87	56-126					
CHLOROMETHANE	0.00050	ND	92	62-133					
VINYL CHLORIDE	0.00059	ND	97	67-136					
BROMOMETHANE	0.00028	ND	96	72-130					
CHLOROETHANE	0.00029	ND	97	73-138					
TRICHLOROFLUOROMETHANE	0.00037	ND	97	78-131					
ACETONE	0.00159	ND	95	62-119					
ACRYLONITRILE	0.00036	ND	105	76-135					
2-BUTANONE	0.00152	ND	97	62-122					
1,1-DICHLOROETHENE	0.00059	ND	100	82-133	87	95	8	14	61-145
METHYL IODIDE	0.00307	ND	103	70-136					
CARBON DISULFIDE	0.00042	ND	100	76-132					
METHYLENE CHLORIDE	0.00138	ND	98	68-135					
TRANS-1,2-DICHLOROETHENE	0.00107	ND	96	80-134					
1,1-DICHLOROETHANE	0.00036	ND	98	74-140					
ISOPROPYL ETHER(IPE)	0.00024	ND	102	67-139					
METHYL-TERT-BUTYL ETHER(MTBE)	0.00032	ND	95	68-131					
VINYL ACETATE	0.00035	ND	98	67-127					
CIS-1,2-DICHLOROETHENE	0.00031	ND	99	78-133					
2,2-DICHLOROPROPANE	0.00029	ND	100	72-123					
BROMOCHLOROMETHANE	0.00049	ND	96	71-139					
CHLOROFORM	0.00029	ND	100	81-126					
1,1,1-TRICHLOROETHANE	0.00028	ND	100	76-129					
CARBON TETRACHLORIDE	0.00081	ND	98	81-133					
1,1-DICHLOROPROPENE	0.00059	ND	97	80-135					
BENZENE	0.00038	ND	98	78-131	100	107	6	11	76-127
ETHYL ACETATE	0.00074	ND	97	63-122					
1,2-DICHLOROETHANE	0.00055	ND	104	72-132					
TRICHLOROETHENE(TCE)	0.00028	ND	101	79-126	91	99	8	14	71-120
1,2-DICHLOROPROPANE	0.00023	ND	102	79-126					
DIBROMOETHANE	0.00043	ND	103	71-129					

COMMENTS:

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0303** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

SAMPLE ID:	1279-02			LCS	MS	MSD	RPD	QC LIMITS	
Compound	MDL mg/kg	Method Blank	LCS % Recovery	Acceptr ange	% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.00026	ND	104	71-126					
4-METHYL-2-PENTANONE	0.00052	ND	100	67-122					
CIS-1,3-DICHLOROPROPENE	0.00023	ND	105	70-125					
TOLUENE	0.00027	ND	101	65-139	93	100	7	13	76-125
TRANS-1,3-DICHLOROPROPENE	0.00052	ND	108	65-131					
1,1,2-TRICHLOROETHANE	0.00041	ND	104	64-137					
TETRACHLOROETHENE(PCE)	0.00026	ND	104	61-164					
2-HEXANONE	0.00050	ND	96	63-118					
DIBROMOCHLOROMETHANE	0.00037	ND	103	60-138					
1,3-DICHLOROPROPANE	0.00033	ND	107	64-135					
1,2-DIBROMOETHANE(EDB)	0.00074	ND	109	68-131					
CHLOROBENZENE	0.00029	ND	109	87-121	98	103	5	13	75-130
1,1,1,2-TETRACHLOROETHANE	0.00041	ND	108	85-131					
ETHYLBENZENE	0.00028	ND	106	91-121					
TOTAL XYLENES(M&P, O)	0.00056	ND	104	88-127					
STYRENE	0.00037	ND	108	88-124					
BROMOFORM	0.00045	ND	108	66-133					
ISOPROPYLBENZENE	0.00027	ND	108	90-125					
BROMOBENZENE	0.00028	ND	107	81-128					
1,2,3-TRICHLOROPROPANE	0.00043	ND	104	66-132					
TRANS-1,4-DICHLORO-2-BUTENE	0.00050	ND	101	77-120					
N-PROPYLBENZENE	0.00058	ND	105	88-123					
2-CHLOROTOLUENE	0.00050	ND	109	86-126					
4-CHLOROTOLUENE	0.00042	ND	106	82-125					
1,3,5-TRIMETHYLBENZENE	0.00054	ND	105	89-124					
TERT-BUTYLBENZENE	0.00029	ND	107	89-128					
1,2,4-TRIMETHYLBENZENE	0.00056	ND	106	87-125					
SEC-BUTYLBENZENE	0.00042	ND	107	88-127					
1,3-DICHLOROBENZENE	0.00041	ND	108	79-127					
1,1,2,2-TETRACHLOROETHANE	0.00078	ND	109	72-128					
P-ISOPROPYLTOLUENE	0.00048	ND	107	86-128					
1,4-DICHLOROBENZENE	0.00042	ND	106	80-122					
1,2-DICHLOROBENZENE	0.00039	ND	107	80-123					
N-BUTYLBENZENE	0.00033	ND	103	84-127					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.00067	ND	111	66-125					
1,2,4-TRICHLOROBENZENE	0.00025	ND	104	76-117					
NAPHTHALENE	0.00047	ND	105	79-119					
1,2,3-TRICHLOROBENZENE	0.00036	ND	108	72-118					

COMMENTS:

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0306**

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

Sample ID:	1279-01, 03 – 12				INSTUMENT: MS-2		
Extraction Method	5035						
Date Extracted	N/A						
Weight Extracted	5G/5ML						
Final Extract Volume	5G/5ML						
Date Analyzed	03/06/15						
% Surrogate Recovery	99	100	96				
Acceptance Range	(70-130)	(70-130)	(70-130)				

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
DICHLORODIFLUOROMETHANE	0.00047	ND	90	56-126					
CHLOROMETHANE	0.00050	ND	96	62-133					
VINYL CHLORIDE	0.00059	ND	100	67-136					
BROMOMETHANE	0.00028	ND	102	72-130					
CHLOROETHANE	0.00029	ND	104	73-138					
TRICHLOROFLUOROMETHANE	0.00037	ND	103	78-131					
ACETONE	0.00159	ND	99	62-119					
ACRYLONITRILE	0.00036	ND	108	76-135					
2-BUTANONE	0.00152	ND	99	62-122					
1,1-DICHLOROETHENE	0.00059	ND	100	82-133	87	95	8	14	61-145
METHYL IODIDE	0.00307	ND	109	70-136					
CARBON DISULFIDE	0.00042	ND	105	76-132					
METHYLENE CHLORIDE	0.00138	ND	106	68-135					
TRANS-1,2-DICHLOROETHENE	0.00107	ND	103	80-134					
1,1-DICHLOROETHANE	0.00036	ND	105	74-140					
ISOPROPYL ETHER(IPE)	0.00024	ND	101	67-139					
METHYL-TERT-BUTYL ETHER(MTBE)	0.00032	ND	97	68-131					
VINYL ACETATE	0.00035	ND	100	67-127					
CIS-1,2-DICHLOROETHENE	0.00031	ND	104	78-133					
2,2-DICHLOROPROPANE	0.00029	ND	105	72-123					
BROMOCHLOROMETHANE	0.00049	ND	95	71-139					
CHLOROFORM	0.00029	ND	102	81-126					
1,1,1-TRICHLOROETHANE	0.00028	ND	103	76-129					
CARBON TETRACHLORIDE	0.00081	ND	105	81-133					
1,1-DICHLOROPROPENE	0.00059	ND	102	80-135					
BENZENE	0.00038	ND	105	78-131	100	107	6	11	76-127
ETHYL ACETATE	0.00074	ND	99	63-122					
1,2-DICHLOROETHANE	0.00055	ND	107	72-132					
TRICHLOROETHENE(TCE)	0.00028	ND	107	79-126	91	99	8	14	71-120
1,2-DICHLOROPROPANE	0.00023	ND	103	79-126					
DIBROMOETHANE	0.00043	ND	93	71-129					

COMMENTS:

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0306** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

SAMPLE ID:	1279-01, 03 – 12			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL mg/kg	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.00026	ND	108	71-126					
4-METHYL-2-PENTANONE	0.00052	ND	99	67-122					
CIS-1,3-DICHLOROPROPENE	0.00023	ND	108	70-125					
TOLUENE	0.00027	ND	104	65-139	93	100	7	13	76-125
TRANS-1,3-DICHLOROPROPENE	0.00052	ND	105	65-131					
1,1,2-TRICHLOROETHANE	0.00041	ND	106	64-137					
TETRACHLOROETHENE(PCE)	0.00026	ND	108	61-164					
2-HEXANONE	0.00050	ND	96	63-118					
DIBROMOCHLOROMETHANE	0.00037	ND	102	60-138					
1,3-DICHLOROPROPANE	0.00033	ND	105	64-135					
1,2-DIBROMOETHANE(EDB)	0.00074	ND	103	68-131					
CHLOROBENZENE	0.00029	ND	108	87-121	98	103	5	13	75-130
1,1,1,2-TETRACHLOROETHANE	0.00041	ND	106	85-131					
ETHYLBENZENE	0.00028	ND	106	91-121					
TOTAL XYLENES(M&P, O)	0.00056	ND	105	88-127					
STYRENE	0.00037	ND	108	88-124					
BROMOFORM	0.00045	ND	108	66-133					
ISOPROPYLBENZENE	0.00027	ND	108	90-125					
BROMOBENZENE	0.00028	ND	108	81-128					
1,2,3-TRICHLOROPROPANE	0.00043	ND	102	66-132					
TRANS-1,4-DICHLORO-2-BUTENE	0.00050	ND	98	77-120					
N-PROPYLBENZENE	0.00058	ND	106	88-123					
2-CHLOROTOLUENE	0.00050	ND	104	86-126					
4-CHLOROTOLUENE	0.00042	ND	106	82-125					
1,3,5-TRIMETHYLBENZENE	0.00054	ND	106	89-124					
TERT-BUTYLBENZENE	0.00029	ND	106	89-128					
1,2,4-TRIMETHYLBENZENE	0.00056	ND	107	87-125					
SEC-BUTYLBENZENE	0.00042	ND	106	88-127					
1,3-DICHLOROBENZENE	0.00041	ND	105	79-127					
1,1,2,2-TETRACHLOROETHANE	0.00078	ND	104	72-128					
P-ISOPROPYLTOLUENE	0.00048	ND	106	86-128					
1,4-DICHLOROBENZENE	0.00042	ND	106	80-122					
1,2-DICHLOROBENZENE	0.00039	ND	106	80-123					
N-BUTYLBENZENE	0.00033	ND	107	84-127					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.00067	ND	101	66-125					
1,2,4-TRICHLOROBENZENE	0.00025	ND	106	76-117					
NAPHTHALENE	0.00047	ND	105	79-119					
1,2,3-TRICHLOROBENZENE	0.00036	ND	106	72-118					

COMMENTS:

QA/QC Summary

Method: 8270 (100/200 PPB QC)	FILE NAME: SLC0309-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Sample ID:	1279--01-12				INSTUMENT: MS-1		
Extraction Method	3550						
Date Extracted	03/05/15						
Weight Extracted	30G						
Final Extract Volume	1ML						
Date Analyzed	03/09/15						
% Surrogate Recovery	73	83	72	81	80	74	
Acceptance Range	(21 - 110)	(10 - 110)	(35 - 114)	(10 - 123)	(43 - 116)	(33 - 141)	

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.047	ND	81	51-108					
Bis(2-chloroethyl)ether	0.066	ND	82	49-110					
Phenol	0.066	ND	82	52-118	50	56	11	42	12-110
2-Chlorophenol	0.060	ND	79	55-111	60	67	10	40	27-123
1,3-Dichlorobenzene	0.085	ND	75	54-108					
1,4-Dichlorobenzene	0.050	ND	71	55-112	50	56	13	28	36-97
1,2-Dichlorobenzene	0.047	ND	78	53-112					
Benzyl Alcohol	0.087	ND	85	47-160					
2-Methylphenol(O-CREOSOL)	0.072	ND	84	35-127					
3&4-Methylphenol(M&P CREOSOL)	0.063	ND	87	47-132					
Bis(2-chloroisopropyl)ether	0.063	ND	87	37-116					
N-nitrosodi-n-propylamine	0.057	ND	80	45-123	63	69	9	38	41-116
Hexachloroethane	0.069	ND	75	52-107					
2-Nitrophenol	0.066	ND	82	56-117					
2,4-Dimethylphenol	0.079	ND	78	35-118					
Nitrobenzene	0.072	ND	73	50-99					
Isophorone	0.079	ND	72	48-100					
Bis(2-chloroethoxy)methane	0.063	ND	73	51-96					
Benzoic Acid	0.348	ND	96	D-136					
2,4-Dichlorophenol	0.066	ND	77	42-117					
1,2,4-Trichlorobenzene	0.047	ND	73	53-95	69	81	15	28	39-98
4-Chloro-3-methylphenol	0.141	ND	83	49-128	66	79	18	42	23-97
4-Chloroaniline	0.479	ND	74	44-116					
Hexachlorobutadiene	0.057	ND	66	39-121					
2-Methylnaphthalene	0.056	ND	70	63-105					
Dibenzofuran	0.063	ND	75	50-128					
2,4,6-Trichlorophenol	0.044	ND	93	23-167					
2,4,5-Trichlorophenol	0.107	ND	87	32-158					

N/A

QA/QC Summary

Method: 8270 (100/200 PPB QC) | **FILE NAME: SLC0309-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
2-Methyl-4,6-Dinitrophenol	0.170	ND	94	64-140					
4-Nitrophenol	0.232	ND	80	50-140	32	25	24	50	10-80
Hexachlorocyclopentadiene	0.079	ND	76	12-129					
2-Chloronaphthalene	0.046	ND	81	46-127					
Dimethyl phthalate	0.066	ND	79	51-113					
Acenaphthylene	0.066	ND	79	41-128					
2,6-Dinitrotoluene	0.075	ND	74	58-120					
Acenaphthene	0.057	ND	92	49-129	49	65	28	31	46-118
2,4-Dinitrotoluene	0.079	ND	92	53-123	43	52	20	38	24-96
Fluorene	0.060	ND	75	49-127					
Diethyl phthalate	0.072	ND	84	47-117					
4-Chlorophenyl phenyl ether	0.050	ND	82	46-134					
2,4-Dinitrophenol	0.188	ND	99	45-147					
Azobenzene	0.083	ND	89	45-117					
Pentachlorophenol	0.129	ND	82	64-144	49	54	11	50	9-103
N-Nitrosodiphenylamine	0.066	ND	93	2-127					
4-Bromophenyl phenyl ether	0.085	ND	92	50-130					
Hexachlorobenzene	0.069	ND	73	50-131					
Phenanthrene	0.075	ND	97	50-135					
Anthracene	0.072	ND	84	57-131					
Di-N-Butyl phthalate	0.097	ND	96	47-115					
Fluoranthene	0.085	ND	95	47-128					
Benzidine	0.048	ND	37	D-150					
Pyrene	0.038	ND	91	56-120	51	56	9	31	26-127
Benzyl butyl phthalate	0.060	ND	86	55-122					
Benzo(a)anthracene	0.050	ND	90	62-119					
3,3-Dichlorobenzidine	0.122	ND	43	D-114					
Chrysene	0.060	ND	75	60-124					
Bis(2-ethyl-hexyl)phthalate	0.066	ND	77	46-124					
Di-N-Octyl phthalate	0.079	ND	69	49-131					
Benzo(b)fluoranthene	0.122	ND	92	60-132					
Benzo(k)fluoranthene	0.110	ND	61	39-137					
Benzo(a)pyrene	0.047	ND	74	63-126					
Indeno(1,2,3-cd) pyrene	0.094	ND	83	39-159					
Dibenzo(a,h)anthracene	0.088	ND	79	20-158					
Benzo(g,h,i)perylene	0.097	ND	76	40-158					

N/A = Data Not Available * = OUT OF RANGE

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 27 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (mg/kg)	SW4-8-10 (mg/kg)
Acetone	0.100	BQL
Benzene	0.005	BQL
Bromobenzene	0.005	BQL
Bromochloromethane	0.005	BQL
Bromodichloromethane	0.005	BQL
Bromoform	0.005	BQL
Bromomethane	0.010	BQL
2-Butanone	0.100	BQL
N-Butylbenzene	0.005	BQL
Sec-Butylbenzene	0.005	BQL
Tert-Butylbenzene	0.005	BQL
Carbon Tetrachloride	0.010	BQL
Chlorobenzene	0.005	BQL
Dibromochloromethane	0.005	BQL
Chloroethane	0.010	BQL
Chloroform	0.005	BQL
Chloromethane	0.010	BQL
2-Chlorotoluene	0.005	BQL
4-Chlorotoluene	0.005	BQL
1,2-Dibromoethane (EDB)	0.005	BQL
1,2-Dichlorobenzene	0.005	BQL
1,3-Dichlorobenzene	0.005	BQL
1,4-Dichlorobenzene	0.005	BQL
Dichlorodifluoromethane	0.005	BQL
1,1-Dichloroethane	0.005	BQL
1,2-Dichloroethane	0.005	BQL
1,1-Dichloroethene	0.005	BQL
Cis-1,2-Dichloroethene	0.005	BQL
Trans-1,2-Dichloroethene	0.005	BQL
1,2-Dichloropropane	0.005	BQL
1,3-Dichloropropane	0.005	BQL
2,2-Dichloropropane	0.005	BQL
1,1-Dichloropropane	0.005	BQL
Cis-1,3-Dichloropropene	0.010	BQL
Trans-1,3-Dichloropropene	0.010	BQL
Ethyl Acetate	0.010	BQL
Ethyl Benzene	0.005	BQL
2-Hexanone	0.050	BQL
I-Propylbenzene	0.005	BQL
Isopropyl ether (IPE)	0.010	BQL
p-Isopropyltoluene	0.005	BQL
Methylene Chloride	0.020	BQL
4-Methyl-2-Pentanone	0.100	BQL
Methyl-Tert-Butyl ether (MTBE)	0.010	BQL
Naphthalene	0.010	BQL
N-Propylbenzene	0.005	BQL
Styrene	0.010	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL
Tetrachloroethene	0.005	BQL
Toluene	0.005	BQL
1,1,1-Trichloroethane	0.005	BQL
1,1,2-Trichloroethane	0.005	BQL
Trichloroethene	0.005	BQL
Trichlorofluoromethane	0.005	BQL
1,2,3-Trichlorobenzene	0.005	BQL
1,2,4-Trichlorobenzene	0.005	BQL
1,2,3-Trichloropropane	0.015	BQL
1,2,4-Trimethylbenzene	0.005	BQL
1,3,5-Trimethylbenzene	0.005	BQL
Vinyl Acetate	0.050	BQL
Vinyl Chloride	0.010	BQL
Total Xylenes	0.005	BQL
Carbon Disulfide	0.100	BQL
Acrylonitrile	0.200	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL
Methyl Iodide	0.010	BQL
Dibromomethane	0.010	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL
Ethanol	0.100	BQL
Dilution Factor		1
Sample Number		1301-01
Sample Date		02/27/15
Sample Time (hrs)		0942
Date Analyzed		03/03/15
Time Analyzed		1620
Surrogate Recovery (DBFM)	Range (70-130%)	107%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	99%
Surrogate Recovery (4-BFB)	Range (70-130%)	99%

mg/kg = milligrams per kilogram = parts per million (ppm)

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Locations Identified as 955 Brookstown
(A Piedmont Industrial Services Project, collected 27 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (mg/kg)	SW4-8-10 (mg/kg)
Acenaphthene	0.33	BQL
Acenaphthylene	0.33	BQL
Anthracene	0.33	BQL
Benzoic Acid	6.67	BQL
Benzo(a)anthracene	0.33	BQL
Benzo(b)fluoranthene	0.33	BQL
Benzo(k)fluoranthene	0.33	BQL
Benzo(ghi)perylene	0.33	BQL
Benzo(a)pyrene	0.33	BQL
Benzyl Alcohol	3.33	BQL
Bis(2-chloroethoxy)methane	0.33	BQL
Bis(2-chloroethyl)ether	0.33	BQL
Bis(2-chloroisopropyl)ether	0.33	BQL
Bis(2-ethyl-hexyl)phthalate	0.33	BQL
4-Bromophenyl phenyl ether	0.33	BQL
Benzyl butyl phthalate	0.33	BQL
4-Chloroaniline	1.65	BQL
4-Chloro-3-methylphenol	0.33	BQL
2-Chloronaphthalene	0.33	BQL
2-Chlorophenol	0.33	BQL
4-Chlorophenyl phenyl ether	0.33	BQL
Chrysene	0.33	BQL
Dibenzo(a,h)anthracene	0.33	BQL
Dibenzofuran	0.33	BQL
Di-N-Butyl phthalate	0.33	BQL
1,2-Dichlorobenzene	0.33	BQL
1,3-Dichlorobenzene	0.33	BQL
1,4-Dichlorobenzene	0.33	BQL
3,3-Dichlorobenzidine	0.66	BQL
2,4-Dichlorophenol	0.33	BQL
Diethyl phthalate	0.33	BQL
2,4-Dimethylphenol	0.33	BQL
Dimethyl phthalate	0.33	BQL
4,6-Dinitro-2-methylphenol	1.65	BQL
2,4-Dinitrophenol	1.65	BQL
2,4-Dinitrotoluene	0.33	BQL
2,6-Dinitrotoluene	0.33	BQL
Di-N-Octyl phthalate	0.33	BQL
Azobenzene	3.33	BQL
Fluoranthene	0.33	BQL
Fluorene	0.33	BQL
Hexachlorobenzene	0.33	BQL
Hexachlorobutadiene	0.33	BQL
Hexachlorocyclopentadiene	0.33	BQL
Hexachloroethane	0.33	BQL
Indeno(1,2,3-cd) pyrene	0.33	BQL
Isophorone	0.33	BQL
2-Methylnaphthalene	0.33	BQL
2-Methylphenol	1.65	BQL
4-Methylphenol	1.65	BQL
Nitrobenzene	0.33	BQL
2-Nitrophenol	0.33	BQL
4-Nitrophenol	1.65	BQL
N-Nitrosodiphenylamine	0.33	BQL
N-nitrosodi-n-propylamine	0.33	BQL
Pentachlorophenol	1.65	BQL
Phenanthrene	0.33	BQL
Phenol	0.33	BQL
Pyrene	0.33	BQL
1,2,4-Trichlorobenzene	0.33	BQL
2,4,6-Trichlorophenol	0.33	BQL
2-Methyl-4,6-dinitrophenol	1.65	BQL
Benzidine	1.65	BQL
1,2-Diphenylhydrazine	1.65	BQL
N-Nitrosodimethylamine	0.33	BQL
Napthalene	0.33	BQL
1-Methylnaphthalene	0.33	BQL
Dilution Factor		1
Sample Number		1301-01
Sample Date		02/27/15
Sample Time (hrs)		0942
Date Extracted		03/05/15
Date Analyzed		03/09/15
Time Analyzed		1325
Surrogate Recovery	Range	
(2-Fluorophenol)	(21-110%)	55%
(Phenol-d6)	(10-110%)	51%
(Nitrobenzene-d5)	(35-114%)	63%
(2,4,6-Tribromophenol)	(10-123%)	51%
(2-Fluorobiphenyl)	(43-116%)	58%
(4-Terphenyl-d14)	(33-141%)	74%

mg/kg = milligrams per kilogram = parts per million (ppm) BNA = Base-Neutral Acid Extractables BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.

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RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Location Identified as 955 Brookstown
(A Piedmont Industrial Project, collected 27 February 2015)

I. Volatile Organics EPA Method 8260 B Parameter	Quantitation Limit (ppb)	SW4 (ppb)
Acetone	25	BQL
Acrolein	100	BQL
Acrylonitrile	100	BQL
Benzene	0.5	BQL
Bromobenzene	0.5	BQL
Bromochloromethane	0.5	BQL
Bromodichloromethane	0.5	BQL
Bromoform	1.0	BQL
Bromomethane	1.0	BQL
2-Butanone	25	BQL
Carbon Disulfide	5.0	BQL
Carbon Tetrachloride	0.5	BQL
Chlorobenzene	0.5	BQL
Chloroethane	1.0	BQL
2-Chloroethyl vinyl ether	5.0	BQL
Chloroform	0.5	BQL
Chloromethane	1.0	BQL
2-Chlorotoluene	0.5	BQL
4-Chlorotoluene	0.5	BQL
Cis-1,2-Dichloroethene	0.5	BQL
Cis-1,3-Dichloropropene	0.5	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	5.0	BQL
1,2-Dibromoethane (EDB)	0.5	BQL
Dibromochloromethane	0.5	BQL
Dibromomethane	0.5	BQL
1,2-Dichlorobenzene	0.5	BQL
1,3-Dichlorobenzene	0.5	BQL
1,4-Dichlorobenzene	0.5	BQL
1,1-Dichloroethane	0.5	BQL
1,2-Dichloroethane	0.5	BQL
1,1-Dichloroethene	0.5	BQL
Dichloroflouromethane	0.5	BQL
1,2-Dichloropropane	0.5	BQL
1,3-Dichloropropane	0.5	BQL
2,2-Dichloropropane	0.5	BQL
1,1-Dichloropropene	0.5	BQL
Ethyl Benzene	0.5	BQL
2-Hexanone	5.0	BQL
IPE	0.5	BQL
I-Propylbenzene	0.5	BQL
4-Methyl-2-Pentanone	5.0	BQL
Methyl Iodide	1.0	BQL
Methylene Chloride	5.0	BQL
MTBE	0.5	BQL
Naphthalene	0.5	BQL
N-Butylbenzene	0.5	BQL
N-Propylbenzene	0.5	BQL
p-Isopropyltoluene	0.5	BQL
Sec-Butylbenzene	0.5	BQL
Styrene	0.5	BQL
Tert-Butylbenzene	0.5	BQL
1,1,1,2-Tetrachloroethane	0.5	BQL
1,1,2,2-Tetrachloroethane	0.5	BQL
Tetrachloroethene	0.5	**25.8**
Toluene	0.5	BQL
Trans-1,2-Dichloroethene	0.5	BQL
Trans-1,3-Dichloropropene	0.5	BQL
Trans-1,4-Dichloro-2-butene	5.0	BQL
1,2,3-Trichlorobenzene	0.5	BQL
1,2,4-Trichlorobenzene	0.5	BQL
1,1,1-Trichloroethane	0.5	BQL
1,1,2-Trichloroethane	0.5	BQL
Trichloroethene	0.5	BQL
Trichlorofluoromethane	0.5	BQL
1,2,3-Trichloropropane	0.5	BQL
1,2,4-Trimethylbenzene	0.5	BQL
1,3,5-Trimethylbenzene	0.5	BQL
Vinyl Acetate	1.0	BQL
Vinyl Chloride	0.5	BQL
Total Xylenes	1.0	BQL
Dilution Factor		1
Sample Number		1301-02
Sample Date		02/27/15
Sample Time (hrs)		1025
Date Analyzed		03/03/15
Time Analyzed		1840
Surrogate Recovery (DBFM)	Range (70-130%)	104%
Surrogate Recovery (Toluene-d8)	Range (70-130%)	96%
Surrogate Recovery (4-BFB)	Range (70-130%)	100%

BQL = Below Quantitation Limit

ppb = parts per billion

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Chemical Analysis for Selected Parameters and Sampling Location Identified as 955 Brookstown
(A Piedmont Industrial Project, collected 27 February 2015)

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (ppb)	SW4 (ppb)
4-Chloro-3-methylphenol	10.0	BQL
2-Chlorophenol	10.0	BQL
2,4-Dichlorophenol	10.0	BQL
2,4-Dimethylphenol	10.0	BQL
2,4-Dinitrophenol	50.0	BQL
2-Methyl-4,6-dinitrophenol	50.0	BQL
2-Nitrophenol	10.0	BQL
4-Nitrophenol	50.0	BQL
Pentachlorophenol	50.0	BQL
Phenol	10.0	BQL
2,4,6-Trichlorophenol	10.0	BQL
Acenaphthene	10.0	BQL
Acenaphthylene	10.0	BQL
Anthracene	10.0	BQL
Benzidine	50.0	BQL
Benzo(a)anthracene	10.0	BQL
Benzo(a)pyrene	10.0	BQL
Benzo(b)fluoranthene	10.0	BQL
Benzo(ghi)perylene	10.0	BQL
Benzo(k)fluoranthene	10.0	BQL
Benzyl butyl phthalate	10.0	BQL
Bis(2-chloroethoxy)methane	10.0	BQL
Bis(2-chloroethyl)ether	10.0	BQL
Bis(2-chloroisopropyl)ether	10.0	BQL
Bis(2-ethyl-hexyl)phthalate	10.0	BQL
4-Bromophenyl phenyl ether	10.0	BQL
2-Chloronaphthalene	10.0	BQL
4-Chlorophenyl phenyl ether	10.0	BQL
Chrysene	10.0	BQL
Dibenzo(a,h)anthracene	10.0	BQL
1,2-Dichlorobenzene	10.0	BQL
1,3-Dichlorobenzene	10.0	BQL
1,4-Dichlorobenzene	10.0	BQL
3,3-Dichlorobenzidine	20.0	BQL
Diethyl phthalate	10.0	BQL
Dimethyl phthalate	10.0	BQL
Di-N-Butyl phthalate	10.0	BQL
2,4-Dinitrotoluene	10.0	BQL
2,6-Dinitrotoluene	10.0	BQL
Di-N-Octyl phthalate	10.0	BQL
1,2-Diphenylhydrazine	50.0	BQL
Fluoranthene	10.0	BQL
Fluorene	10.0	BQL
Hexachlorobenzene	10.0	BQL
Hexachlorobutadiene	10.0	BQL
Hexachlorocyclopentadiene	10.0	BQL
Hexachloroethane	10.0	BQL
Indeno(1,2,3-cd) pyrene	10.0	BQL
Isophorone	10.0	BQL
Naphthalene	10.0	BQL
Nitrobenzene	10.0	BQL
N-Nitrosodimethylamine	10.0	BQL
N-nitrosodi-n-propylamine	10.0	BQL
N-Nitrosodiphenylamine	10.0	BQL
Phenanthrene	10.0	BQL
Pyrene	10.0	BQL
1,2,4-Trichlorobenzene	10.0	BQL
2-Methylnaphthalene	10.0	BQL
1-Methylnaphthalene	10.0	BQL
Dilution Factor		1
Sample Number		1301-02
Sample Date		02/27/15
Sample Time (hrs)		1025
Date Extracted		03/03/15
Date Analyzed		03/05/15
Time Analyzed		1752
Surrogate Recovery	**Range**	
(2-Fluorophenol)	(21-110%)	47%
(Phenol-d6)	(10-110%)	28%
(Nitrobenzene-d5)	(35-114%)	89%
(2,4,6-Tribromophenol)	(10-123%)	74%
(2-Fluorobiphenyl)	(43-116%)	67%
(4-Terphenyl-d14)	(33-141%)	70%

BNA = Base-Neutral Acid Extractables

ppb = parts per billion

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Piedmont Industrial Services
STREET ADDRESS: 1680 Lowery Street
CITY, STATE, ZIP: Winston-Salem, NC 27101
CONTACT: Jason Jump
PHONE: 722-6505
JOB NO.: Reece
PROJECT: 955 Brookstown
SAMPLER NAME (PLEASE PRINT): Jason Jump
SAMPLER SIGNATURE:

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	WATER / WASTEWATER: 2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)	MISC.	REQUESTED ANALYSIS
1301-01	2/27	942		X				S	SW4-8-10	5												EPA Method 8260/8270
02	2/27	1025		X				W	SW4	6												

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	2/27 1306	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: IHSB - Brownfields Site / EPA Method 8260/8270 on soil and water

ONICE

SAMPLE TEMPERATURE AT RECEIPT 3.1 °C

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

CASE NARRATIVE

One (1) water and one (1) soil sample was received in good condition on 27 February 2015. The sample was analyzed without difficulties unless noted below.

03/10/15

Sidney L. Champion
Director of Laboratory Services

Date

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 336-996-2841 • Fax 336-996-0326
www.randalabs.com

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC)	FILE NAME: SLC0303

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

Sample ID:	1301-01				INSTUMENT: MS-2		Page 1 of 2
Extraction Method	5035						
Date Extracted	N/A						
Weight Extracted	5G/5ML						
Final Extract Volume	5G/5ML						
Date Analyzed	03/03/15						
% Surrogate Recovery	98	99	101				
Acceptance Range	(70-130)	(70-130)	(70-130)				

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
DICHLORODIFLUOROMETHANE	0.00047	ND	87	56-126					
CHLOROMETHANE	0.00050	ND	92	62-133					
VINYL CHLORIDE	0.00059	ND	97	67-136					
BROMOMETHANE	0.00028	ND	96	72-130					
CHLOROETHANE	0.00029	ND	97	73-138					
TRICHLOROFLUOROMETHANE	0.00037	ND	97	78-131					
ACETONE	0.00159	ND	95	62-119					
ACRYLONITRILE	0.00036	ND	105	76-135					
2-BUTANONE	0.00152	ND	97	62-122					
1,1-DICHLOROETHENE	0.00059	ND	100	82-133	87	95	8	14	61-145
METHYL IODIDE	0.00307	ND	103	70-136					
CARBON DISULFIDE	0.00042	ND	100	76-132					
METHYLENE CHLORIDE	0.00138	ND	98	68-135					
TRANS-1,2-DICHLOROETHENE	0.00107	ND	96	80-134					
1,1-DICHLOROETHANE	0.00036	ND	98	74-140					
ISOPROPYL ETHER(IPE)	0.00024	ND	102	67-139					
METHYL-TERT-BUTYL ETHER(MTBE)	0.00032	ND	95	68-131					
VINYL ACETATE	0.00035	ND	98	67-127					
CIS-1,2-DICHLOROETHENE	0.00031	ND	99	78-133					
2,2-DICHLOROPROPANE	0.00029	ND	100	72-123					
BROMOCHLOROMETHANE	0.00049	ND	96	71-139					
CHLOROFORM	0.00029	ND	100	81-126					
1,1,1-TRICHLOROETHANE	0.00028	ND	100	76-129					
CARBON TETRACHLORIDE	0.00081	ND	98	81-133					
1,1-DICHLOROPROPENE	0.00059	ND	97	80-135					
BENZENE	0.00038	ND	98	78-131	100	107	6	11	76-127
ETHYL ACETATE	0.00074	ND	97	63-122					
1,2-DICHLOROETHANE	0.00055	ND	104	72-132					
TRICHLOROETHENE(TCE)	0.00028	ND	101	79-126	91	99	8	14	71-120
1,2-DICHLOROPROPANE	0.00023	ND	102	79-126					
DIBROMOETHANE	0.00043	ND	103	71-129					

COMMENTS:

QA/QC Summary

Method: 8260(SOIL)(50/100/500/1000 PPB QC) | **FILE NAME: SLC0303** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES(PROJECT: BROOKSTOWN)

SAMPLE ID:	1301-01			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL mg/kg	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.00026	ND	**104**	71-126					
4-METHYL-2-PENTANONE	0.00052	ND	**100**	67-122					
CIS-1,3-DICHLOROPROPENE	0.00023	ND	**105**	70-125					
TOLUENE	0.00027	ND	**101**	65-139	**93**	**100**	**7**	**13**	**76-125**
TRANS-1,3-DICHLOROPROPENE	0.00052	ND	**108**	65-131					
1,1,2-TRICHLOROETHANE	0.00041	ND	**104**	64-137					
TETRACHLOROETHENE(PCE)	0.00026	ND	**104**	61-164					
2-HEXANONE	0.00050	ND	**96**	63-118					
DIBROMOCHLOROMETHANE	0.00037	ND	**103**	60-138					
1,3-DICHLOROPROPANE	0.00033	ND	**107**	64-135					
1,2-DIBROMOETHANE(EDB)	0.00074	ND	**109**	68-131					
CHLOROBENZENE	0.00029	ND	**109**	87-121	**98**	**103**	**5**	**13**	**75-130**
1,1,1,2-TETRACHLOROETHANE	0.00041	ND	**108**	85-131					
ETHYLBENZENE	0.00028	ND	**106**	91-121					
TOTAL XYLENES(M&P, O)	0.00056	ND	**104**	88-127					
STYRENE	0.00037	ND	**108**	88-124					
BROMOFORM	0.00045	ND	**108**	66-133					
ISOPROPYLBENZENE	0.00027	ND	**108**	90-125					
BROMOBENZENE	0.00028	ND	**107**	81-128					
1,2,3-TRICHLOROPROPANE	0.00043	ND	**104**	66-132					
TRANS-1,4-DICHLORO-2-BUTENE	0.00050	ND	**101**	77-120					
N-PROPYLBENZENE	0.00058	ND	**105**	88-123					
2-CHLOROTOLUENE	0.00050	ND	**109**	86-126					
4-CHLOROTOLUENE	0.00042	ND	**106**	82-125					
1,3,5-TRIMETHYLBENZENE	0.00054	ND	**105**	89-124					
TERT-BUTYLBENZENE	0.00029	ND	**107**	89-128					
1,2,4-TRIMETHYLBENZENE	0.00056	ND	**106**	87-125					
SEC-BUTYLBENZENE	0.00042	ND	**107**	88-127					
1,3-DICHLOROBENZENE	0.00041	ND	**108**	79-127					
1,1,2,2-TETRACHLOROETHANE	0.00078	ND	**109**	72-128					
P-ISOPROPYLTOLUENE	0.00048	ND	**107**	86-128					
1,4-DICHLOROBENZENE	0.00042	ND	**106**	80-122					
1,2-DICHLOROBENZENE	0.00039	ND	**107**	80-123					
N-BUTYLBENZENE	0.00033	ND	**103**	84-127					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.00067	ND	**111**	66-125					
1,2,4-TRICHLOROBENZENE	0.00025	ND	**104**	76-117					
NAPHTHALENE	0.00047	ND	**105**	79-119					
1,2,3-TRICHLOROBENZENE	0.00036	ND	**108**	72-118					

COMMENTS:

QA/QC Summary

Method: 8270 (100/200 PPB QC)	FILE NAME: SLC0309-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Sample ID:	1301--01				INSTUMENT: MS-1			
Extraction Method	3550							
Date Extracted	03/05/15							
Weight Extracted	30G							
Final Extract Volume	1ML							
Date Analyzed	03/09/15							
% Surrogate Recovery	73	83	72	81	80		74	
Acceptance Range	(21 - 110)	(10 - 110)	(35 - 114)	(10 - 123)	(43 - 116)		(33 - 141)	

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.047	ND	81	51-108					
Bis(2-chloroethyl)ether	0.066	ND	82	49-110					
Phenol	0.066	ND	82	52-118	50	56	11	42	12-110
2-Chlorophenol	0.060	ND	79	55-111	60	67	10	40	27-123
1,3-Dichlorobenzene	0.085	ND	75	54-108					
1,4-Dichlorobenzene	0.050	ND	71	55-112	50	56	13	28	36-97
1,2-Dichlorobenzene	0.047	ND	78	53-112					
Benzyl Alcohol	0.087	ND	85	47-160					
2-Methylphenol(O-CREOSOL)	0.072	ND	84	35-127					
3&4-Methylphenol(M&P CREOSOL)	0.063	ND	87	47-132					
Bis(2-chloroisopropyl)ether	0.063	ND	87	37-116					
N-nitrosodi-n-propylamine	0.057	ND	80	45-123	63	69	9	38	41-116
Hexachloroethane	0.069	ND	75	52-107					
2-Nitrophenol	0.066	ND	82	56-117					
2,4-Dimethylphenol	0.079	ND	78	35-118					
Nitrobenzene	0.072	ND	73	50-99					
Isophorone	0.079	ND	72	48-100					
Bis(2-chloroethoxy)methane	0.063	ND	73	51-96					
Benzoic Acid	0.348	ND	96	D-136					
2,4-Dichlorophenol	0.066	ND	77	42-117					
1,2,4-Trichlorobenzene	0.047	ND	73	53-95	69	81	15	28	39-98
4-Chloro-3-methylphenol	0.141	ND	83	49-128	66	79	18	42	23-97
4-Chloroaniline	0.479	ND	74	44-116					
Hexachlorobutadiene	0.057	ND	66	39-121					
2-Methylnaphthalene	0.056	ND	70	63-105					
Dibenzofuran	0.063	ND	75	50-128					
2,4,6-Trichlorophenol	0.044	ND	93	23-167					
2,4,5-Trichlorophenol	0.107	ND	87	32-158					

N/A .

QA/QC Summary

Method: 8270 (100/200 PPB QC) | **FILE NAME: SLC0309-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
2-Methyl-4,6-Dinitrophenol	0.170	ND	94	64-140					
4-Nitrophenol	0.232	ND	80	50-140	32	25	24	50	10-80
Hexachlorocyclopentadiene	0.079	ND	76	12-129					
2-Chloronaphthalene	0.046	ND	81	46-127					
Dimethyl phthalate	0.066	ND	79	51-113					
Acenaphthylene	0.066	ND	79	41-128					
2,6-Dinitrotoluene	0.075	ND	74	58-120					
Acenaphthene	0.057	ND	92	49-129	49	65	28	31	46-118
2,4-Dinitrotoluene	0.079	ND	92	53-123	43	52	20	38	24-96
Fluorene	0.060	ND	75	49-127					
Diethyl phthalate	0.072	ND	84	47-117					
4-Chlorophenyl phenyl ether	0.050	ND	82	46-134					
2,4-Dinitrophenol	0.188	ND	99	45-147					
Azobenzene	0.083	ND	89	45-117					
Pentachlorophenol	0.129	ND	82	64-144	49	54	11	50	9-103
N-Nitrosodiphenylamine	0.066	ND	93	2-127					
4-Bromophenyl phenyl ether	0.085	ND	92	50-130					
Hexachlorobenzene	0.069	ND	73	50-131					
Phenanthrene	0.075	ND	97	50-135					
Anthracene	0.072	ND	84	57-131					
Di-N-Butyl phthalate	0.097	ND	96	47-115					
Fluoranthene	0.085	ND	95	47-128					
Benzidine	0.048	ND	37	D-150					
Pyrene	0.038	ND	91	56-120	51	56	9	31	26-127
Benzyl butyl phthalate	0.060	ND	86	55-122					
Benzo(a)anthracene	0.050	ND	90	62-119					
3,3-Dichlorobenzidine	0.122	ND	43	D-114					
Chrysene	0.060	ND	75	60-124					
Bis(2-ethyl-hexyl)phthalate	0.066	ND	77	46-124					
Di-N-Octyl phthalate	0.079	ND	69	49-131					
Benzo(b)fluoranthene	0.122	ND	92	60-132					
Benzo(k)fluoranthene	0.110	ND	61	39-137					
Benzo(a)pyrene	0.047	ND	74	63-126					
Indeno(1,2,3-cd) pyrene	0.094	ND	83	39-159					
Dibenzo(a,h)anthracene	0.088	ND	79	20-158					
Benzo(g,h,i)perylene	0.097	ND	76	40-158					

N/A = Data Not Available *** = OUT OF RANGE**

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0303**

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: 955 BROOKSTOWN)

Sample ID:	**1301-02**				**INSTUMENT: MS-2**			**Page 1 of 2**	
Extraction Method	N/A								
Date Extracted	N/A								
Weight Extracted	25ML								
Final Extract Volume	25ML								
Date Analyzed	03/03/15								
% Surrogate Recovery	97	103	101						
Acceptance Range	(70-130)	(70-130)	(70-130)						
Compound	**MDL** ug/L	**Method Blank**	**LCS % Recovery**	**LCS Acceptance Range**	**MS % Rec.**	**MSD % Rec.**	**RPD**	**QC LIMITS RPD**	**QC LIMITS % REC**
DICHLORODIFLUOROMETHANE	0.12	ND	74	70-130					
CHLOROMETHANE	0.07	ND	77	70-130					
VINYL CHLORIDE	0.11	ND	79	70-130					
BROMOMETHANE	0.18	ND	74	70-130					
CHLOROETHANE	0.11	ND	88	70-130					
TRICHLOROFLUOROMETHANE	0.09	ND	98	70-130					
ACETONE	1.18	ND	89	70-130					
ACRYLONITRILE	12.38	ND	100	70-130					
2-BUTANONE	0.88	ND	90	70-130					
1,1-DICHLOROETHENE	0.09	ND	89	70-130	92	98	6	14	70-130
METHYL IODIDE	0.19	ND	83	70-130					
CARBON DISULFIDE	0.45	ND	87	70-130					
METHYLENE CHLORIDE	0.57	ND	85	70-130					
TRANS-1,2-DICHLOROETHENE	0.10	ND	87	70-130					
1,1-DICHLOROETHANE	0.17	ND	92	70-130					
ISOPROPYL ETHER(IPE)	0.12	ND	89	70-130					
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	95	70-130					
VINYL ACETATE	0.24	ND	83	70-130					
CIS-1,2-DICHLOROETHENE	0.09	ND	89	70-130					
2,2-DICHLOROPROPANE	0.09	ND	100	70-130					
BROMOCHLOROMETHANE	0.12	ND	83	70-130					
CHLOROFORM	0.05	ND	92	70-130					
1,1,1-TRICHLOROETHANE	0.12	ND	97	70-130					
CARBON TETRACHLORIDE	0.10	ND	97	70-130					
1,1-DICHLOROPROPENE	0.12	ND	95	70-130					
BENZENE	0.05	ND	83	70-130	92	96	5	11	70-130
ETHYL ACETATE	0.35	ND	92	70-130					
1,2-DICHLOROETHANE	0.09	ND	89	70-130					
TRICHLOROETHENE(TCE)	0.12	ND	94	70-130	89	94	5	14	70-130
1,2-DICHLOROPROPANE	0.10	ND	97	70-130					
DIBROMOETHANE	0.25	ND	97	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0303** |

CLIENT: PIEDMONT INDUSTRIAL SERVICES (PROJECT: 955 BROOKSTOWN)

SAMPLE ID:	1301-02			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	102	70-130					
4-METHYL-2-PENTANONE	1.01	ND	98	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	99	70-130					
TOLUENE	0.26	ND	91	70-130	96	94	2	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	100	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	86	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	98	70-130					
2-HEXANONE	1.42	ND	98	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	99	70-130					
1,3-DICHLOROPROPANE	0.13	ND	96	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	100	70-130					
CHLOROBENZENE	0.10	ND	104	70-130	97	98	1	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	105	70-130					
ETHYLBENZENE	0.07	ND	103	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	102	70-130					
STYRENE	0.04	ND	101	70-130					
BROMOFORM	0.29	ND	98	70-130					
ISOPROPYLBENZENE	0.08	ND	106	70-130					
BROMOBENZENE	0.07	ND	105	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	100	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	113	70-130					
N-PROPYLBENZENE	0.08	ND	105	70-130					
2-CHLOROTOLUENE	0.10	ND	110	70-130					
4-CHLOROTOLUENE	0.09	ND	104	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	111	70-130					
TERT-BUTYLBENZENE	0.08	ND	103	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	101	70-130					
SEC-BUTYLBENZENE	0.12	ND	103	70-130					
1,3-DICHLOROBENZENE	0.12	ND	100	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	100	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	110	70-130					
1,4-DICHLOROBENZENE	0.08	ND	104	70-130					
1,2-DICHLOROBENZENE	0.09	ND	100	70-130					
N-BUTYLBENZENE	0.10	ND	106	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	109	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	99	70-130					
NAPHTHALENE	0.18	ND	96	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	92	70-130					

COMMENTS:

QA/QC Summary

Method: 625 (100/200 PPB QC)	FILE NAME: WLC0305-MS1	Page 1 of 2

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

SAMPLE ID:	1301--02				INSTRUMENT:MS-1		
Extraction Method	3510						
Date Extracted	03/03/15						
Weight Extracted	1L						
Final Extract Volume	1ML						
Date Analyzed	03/05/15						
% Surrogate Recovery	49	35	70	77	73	69	
Acceptance Range	(5 - 77)	(7 - 64)	(29 - 149)	(12 - 123)	(10 - 133)	(20 - 133)	

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS % REC
N-Nitrosodimethylamine	0.970	ND	53	8-104					
Bis(2-chloroethyl)ether	0.430	ND	72	45-111					
Phenol	0.460	ND	38	D-76	28	26	4	42	12-110
2-Chlorophenol	0.300	ND	75	30-107	67	65	3	40	27-123
1,3-Dichlorobenzene	0.250	ND	75	48-90					
1,4-Dichlorobenzene	0.200	ND	66	50-90	50	50	0	28	36-97
1,2-Dichlorobenzene	0.100	ND	71	50-93					
Bis(2-chloroisopropyl)ether	0.380	ND	88	50-107					
N-nitrosodi-n-propylamine	0.500	ND	82	47-111	68	68	0	38	41-116
Hexachloroethane	0.220	ND	67	36-90					
2-Nitrophenol	0.670	ND	73	33-110					
2,4-Dimethylphenol	1.550	ND	66	43-100					
Nitrobenzene	0.500	ND	72	46-112					
Isophorone	0.510	ND	65	50-104					
Bis(2-chloroethoxy)methane	0.420	ND	73	49-105					
2,4-Dichlorophenol	0.540	ND	75	33-108					
1,2,4-Trichlorobenzene	0.560	ND	67	47-95	67	66	2	28	39-98
4-Chloro-3-methylphenol	1.830	ND	73	44-107	72	74	3	42	23-97
Naphthalene	0.710	ND	69	50-96					
Hexachlorobutadiene	0.770	ND	62	24-100					
2,4,6-Trichlorophenol	0.540	ND	87	22-124					
2-Methyl-4,6-Dinitrophenol	3.250	ND	82	16-115					
4-Nitrophenol	6.670	ND	45	1-69	26	24	7	50	10-80
Hexachlorocyclopentadiene	0.970	ND	58	16-85					

N/A = Data Not Available * = FAILED

QA/QC Summary

Method: 625 (100/200 PPB QC) | **FILE NAME: WLC0305-MS1** |

CLIENT:PIEDMONT INDUSTRIAL SERVICES (PROJECT:955 BROOKSTOWN)

Compound	MDL UG/L	Method Blank	LCS % Recovery	LCS Acceptr ange	MS % Rec.	MSD % Rec.	RPD	QC LIMITS RPD	QC LIMITS %REC
2-Chloronaphthalene	0.420	ND	84	51-100					
Dimethyl phthalate	0.400	ND	73	47-107					
Acenaphthylene	0.150	ND	83	49-100					
2,6-Dinitrotoluene	0.670	ND	66	49-106					
Acenaphthene	0.280	ND	83	48-102	66	61	9	31	46-118
2,4-Dinitrotoluene	0.670	ND	79	50-106	55	52	6	38	24-96
Diethyl phthalate	0.820	ND	80	49-107					
4-Chlorophenyl phenyl ether	0.730	ND	75	43-112					
2,4-Dinitrophenol	4.190	ND	86	D-118					
Pentachlorophenol	5.220	ND	83	15-123	46	43	7	50	9-103
N-Nitrosodiphenylamine	1.150	ND	86	35-121					
4-Bromophenyl phenyl ether	0.670	ND	95	48-107					
Hexachlorobenzene	0.390	ND	75	50-102					
Phenanthrene	0.280	ND	87	42-105					
Anthracene	0.200	ND	77	44-104					
Di-N-Butyl phthalate	0.650	ND	92	44-111					
Benzidine	3.370	ND	10	D-48					
Pyrene	1.920	ND	77	39-107	54	53	1	31	26-127
Benzyl butyl phthalate	1.220	ND	71	39-116					
Benzo(a)anthracene	0.380	ND	80	36-114					
3,3-Dichlorobenzidine	5.050	ND	28	6-52					
Chrysene	0.700	ND	82	45-99					
Bis(2-ethyl-hexyl)phthalate	1.140	ND	67	30-134					
Di-N-Octyl phthalate	0.740	ND	68	37-131					
Benzo(b)fluoranthene	0.770	ND	80	49-107					
Benzo(k)fluoranthene	0.600	ND	59	37-112					
Benzo(a)pyrene	0.430	ND	67	49-105					
Indeno(1,2,3-cd) pyrene	1.210	ND	80	38-122					
Dibenzo(a,h)anthracene	1.680	ND	76	43-118					
Benzo(g,h,i)perylene	1.780	ND	73	42-119					

N/A = Data Not Available *** = FAILED**

Appendix D

Soil Vapor Sampling Methodology

Avoid Resampling Soil Vapors Confirm Tracer Gas in the Field Using a Leak Detector

Please watch Centek Laboratories, LLC. video at https://www.youtube.com/watch?v=KWnKIL03TzA for sampling methodology which was approved by the NCDENR-Brownfields Section.

- Confirm system integrity before sample collection.
- Minimize resampling by detecting leaks prior to sampling.
- Eliminate costly and time-consuming lab analysis of tracer gas.

Vapor intrusion occurs when pollutants from contaminated soil or ground water migrate into buildings and ambient air. Adverse health effects can result when vapors occur in high concentrations, or if toxic volatile organics are present. These compounds are monitored using a variety of sampling procedures, including soil vapor, sub-slab, indoor, and ambient air testing. Sample collection for volatile organic compounds (VOCs) typically is performed with an air canister and passive sampling kit according to EPA Method TO-15 or a similar method.

Costly Detection in Lab Doesn't Prevent Resampling

The primary challenge in vapor intrusion monitoring is distinguishing vapor intrusion from other sources of exposure. In order to establish that VOCs are from soil vapor, rather than from the surrounding environment, sampling systems (ports) must be tested with tracer compounds, such as helium, and shown to be properly sealed. Sample collection system integrity can be demonstrated by including the tracer gas in the list of target analytes reported by the laboratory; however, if high levels are found the sample is rejected and costly resampling may result. Using a Leak Detector in the Field Saves Time and Money Detection of tracer gas in the field is a cost-effective alternative to lab analysis that assures the integrity of the sampling system before sampling occurs.

A Gascheck G3 photionization Leak Detector provides good screening of helium tracer gas at concentrations of 10%, the level at which sample port resealing is required.

Real-time detection of helium tracer gas in the field using a Leak Detector is a simple, inexpensive way to minimize resampling by establishing system integrity prior to sample collection. Centek Laboratories pioneered this technique.

Prevent costly resampling—use a Electronic Leak Detector to ensure sample collection system integrity prior to sampling.

1. Prepare sampling port by installing sample probe and shroud as described in NY DOH method.

2. Turn on Electronic Leak Detector and allow it to equilibrate for a few seconds prior to use.

3. Insert leak detector probe tip into the open end of the tubing connected to the sealed sample port.

4. Wait 10 seconds and inject a charge of helium into the open space of the shroud.

5. Wait several minutes. An alarm will sound or visual spike will appear on meter in case of Gascheck G3 if helium is detected at >10%, indicating a leak in the sample port.

6. Once system integrity is verified, then samples are collected in through laboratory prepared regulators and 1 liter Summa canisters from Centek Laboratories, LLC. Put regulator and canister number on chain of custody along with vacuum start and stop readings in inches of mercury, date, sample ID# and PID reading.

References:

Avoid Resampling Soil Vapors Confirm Tracer Gas in the Field Using a Leak Detector By Irene DeGraff, Air Monitoring Product Marketing Manager, Russell Pellegrino, Director of Technical Services*, and Kelli Steindl, GC Accessories Product Marketing Manager * Centek Laboratories, LLC

New York State Department of Health, October 2006, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, http://www.nyhealth.gov/environmental/investigations/soil_gas/svi_guidance/docs/svi_main.pdf (accessed August 27, 2010).

Go To Geotech

Gas Leak Detector

geotech

Ion Science GasCheck G

The new GasCheck G utilizes an advanced micro-thermal conductivity sensor with improved sensitivity for rapid, effective detection of leaks down to cc/sec, g/yr, mg/m³ or ppm levels.

- **Improved Micro-Thermal Conductivity Sensor for enhanced sensitivity**
- **Three variants available; G1, G2 & G3**
- **Choice of readings in cc/sec, g/yr, mg/m³ or ppm**
- **New graphical icon display menu for international markets**
- **Rapidly detects almost any known gas or gas mixture – particularly sensitive to ammonia, argon, butane, helium, hydrogen, SF_6**
- **Reliable, stable and repeatable readings**
- **Conveniently calibrated against helium**
- **LCD back-lit display**
- **Hand held and robust**

- **Industrial**
- **Manufacturing**
- **Medical**
- **Quality Assurance**
- **Laboratory**
- **Research**

Feature	G1	G2	G
Rapid detection of gas leaks	■	■	■
Measures gas leaks (single gas)		■	
Measures gas leaks (up to 20 gases)			■
Audible sounder	■	■	■
Flashing back-lit display	■	■	■
Peak hold readings		■	■
Factory or custom calibration available		■	■
Data logging (store up to 10 readings)			■
Readings displayed in cc/sec, g/yr, ppm or mg/m³			■
Selectable battery type			■
Upgradeable	■	■	

Key: Standard Feature ■

The G2 model is factory configurable only, the Gas and measurement Units must be specified with the order.

Detector:	Micro-thermal conductivity detector (MTCD) Sensor is poison resistant with over range protection
Batteries:	4 x alkaline AA size or NiMH (rechargeable) Typically 20 hours life
Sensitivity (cc/sec):	He 1 x 10^{-5}, CH_4 5 x 10^{-6}, R12 5 x 10^{-5}, Ar 1 x 10^{-4}
Accuracy:	±5% displayed reading ± one digit
Response:	T90 = 1 second rise and clear down
Alarms:	Flashing LED 90 dBA (at 10 cm) audible sounder
Calibration:	Calibrated to UKAS/NIST standards
Data Logging:	10 data points with date and time stamp
Flow Rate:	2 cc/min
Operating Temperature:	-20 to +60°C, -4 to 140°F
Storage Temperature:	-20 to +70°C, -4 to 158°F
Humidity:	0 to 99% RH (non-condensing)
Dimensions & Weight:	
Instrument with Probe:	390mm x 60mm x 49mm (15.5" x 2.3" x 1.9")
Case:	420mm x 320mm x 97mm (16.5" x 12.5" x 3.8")
Instrument:	0.45 kg (1 lb.)
Packed:	1.6 kg (3.5 lb.)

EMC tested EN50081-1 & EN50082-1 July 98

CALL GEOTECH TODAY (800) 833-7958

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email: sales@geotechenv.com website: www.geotechenv.com

Appendix E

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Jason Jomp
Piedmont Industrial Services, Inc
1680 Lowery St
Winston-Salem, NC 27101

TEL: (336) 722-6505
FAX (336) 722-6529

RE: 955 Brookstown

Tuesday, March 17, 2015
Order No.: C1503025

Dear Jason Jomp:

Centek Laboratories, LLC received 4 sample(s) on 3/10/2015 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable

for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silcon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted

for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

CENTEK LABORATORIES, LLC

Date: *18-Mar-15*

CLIENT: Piedmont Industrial Services, Inc

Project: 955 Brookstown

Lab Order: C1503025

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999 and Centek Laboratories, LLC SOP TS-80:

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:
Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

Centek Chain of Custody

Centek Laboratories

143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com

Vapor Intrusion & IAQ

Site Name: 955 Brookstown
Project: CRA
PO#: 955 BROOKSTOWN
Quote #: Q-58/
Other: /B04855

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☑ 1ug/M3	☒ Level II
☐ 1ug/M3 +TCE .25	☐ Cat "B" Like

Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
Next Day by 5pm	☐	100%	
Next Day by Noon	☐	150%	
Same Day	☐	200%	

Company: Piedmont Industrial Services
Report to: Piedmont Industrial Services
Address: 1680 Lowery Street
City, State, Zip: Winston-Salem NC 27101
Email: jjump@pis-inc.com
Phone: 336-722-6505

Company: Check Here If Same: ☑
Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Comments	Vacuum Start/Stop
VP-1	3/9/15	322	60	TO 15 w/ Helium	pid = 0ppm	-30" Hg / -3.0 Hg
VP-2	↓	553	178	↓	pid = 0.2ppm	-28" Hg / 0" Hg
VP-3	↓	1289	124	↓	pid = 0ppm	-29" Hg / 0" Hg
VP-4	↓	555	125	↓	pid = 0ppm	-29" Hg / -1.5" Hg

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Jason Jump	[signature]	3/9/15 1340
Relinquished by:	Jason Jump	[signature]	3/9/15 1340
Received at Lab by:	NICK MANDARINO	[signature]	3-10-15

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

For LAB USE ONLY
Work Order # C1503025

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name PIEDMONTINDUSTRIAL

Date and Time Receive 3/10/2015

Work Order Numbe C1503026

Received by NM

Checklist completed by [signature] 3-10-15 (Signature / Date)

Reviewed by WD 3/20/15 (Initials / Date)

Matrix:

Carrier name: FdEx OvrNite

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Date: *18-Mar-15*

CENTEK LABORATORIES, LLC

CLIENT: Piedmont Industrial Services, Inc
Project: 955 Brookstown
Lab Order: C1503025

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1503025-001A	VP-1	322.60	3/9/2015	3/10/2015
C1503025-002A	VP-2	553.178	3/9/2015	3/10/2015
C1503025-003A	VP-3	1289.124	3/9/2015	3/10/2015
C1503025-004A	VP-4	555.125	3/9/2015	3/10/2015

Centek Laboratories, LLC

18-Mar-15

Lab Order: C1503025
Client: Piedmont Industrial Services, Inc
Project: 955 Brookstown

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1503025-001A	VP-1	3/9/2015	Air	1ug/M3 by Method TO15			3/16/2015
				1ug/M3 by Method TO15			3/17/2015
C1503025-002A	VP-2			1ug/M3 by Method TO15			3/17/2015
				1ug/M3 by Method TO15			3/16/2015
C1503025-003A	VP-3			1ug/M3 by Method TO15			3/16/2015
				1ug/M3 by Method TO15			3/17/2015
C1503025-004A	VP-4			1ug/M3 by Method TO15			3/17/2015
				1ug/M3 by Method TO15			3/17/2015

CENTEK LABORATORIES, LLC

Date: *17-Mar-15*

ANALYTICAL QC SUMMARY REPORT

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: **1ugM3_TO15**

Sample ID	AMB1UG-031615	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	9418
Client ID:	ZZZZZ	Batch ID:	R9418	TestNo:	TO-15			Analysis Date:	3/16/2015	SeqNo:	111479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-031615	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	9418
Client ID:	ZZZZZ	Batch ID:	R9418	TestNo:	TO-15			Analysis Date:	3/16/2015	SeqNo:	111479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-031615** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/16/2015** SeqNo: **111479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID **ALCS1UG-031615** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/16/2015** SeqNo: **111480**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1,2,2-Tetrachloroethane	1.110	0.15	1	0	111	70	130				
1,1,2-Trichloroethane	1.150	0.15	1	0	115	70	130				
1,1-Dichloroethane	1.140	0.15	1	0	114	70	130				
1,1-Dichloroethene	1.160	0.15	1	0	116	70	130				
1,2,4-Trichlorobenzene	0.9700	0.15	1	0	97.0	70	130				
1,2,4-Trimethylbenzene	0.9300	0.15	1	0	93.0	70	130				
1,2-Dibromoethane	1.080	0.15	1	0	108	70	130				
1,2-Dichlorobenzene	1.120	0.15	1	0	112	70	130				
1,2-Dichloroethane	1.100	0.15	1	0	110	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				
1,3,5-Trimethylbenzene	1.090	0.15	1	0	109	70	130				
1,3-butadiene	1.180	0.15	1	0	118	70	130				
1,3-Dichlorobenzene	1.140	0.15	1	0	114	70	130				
1,4-Dichlorobenzene	1.140	0.15	1	0	114	70	130				
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130				
2,2,4-trimethylpentane	1.060	0.15	1	0	106	70	130				
4-ethyltoluene	1.010	0.15	1	0	101	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-031615** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/16/2015** SeqNo: **111480**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.180	0.30	1	0	118	70	130				
Allyl chloride	0.9600	0.15	1	0	96.0	70	130				
Benzene	1.090	0.15	1	0	109	70	130				
Benzyl chloride	1.130	0.15	1	0	113	70	130				
Bromodichloromethane	1.150	0.15	1	0	115	70	130				
Bromoform	0.6600	0.15	1	0	66.0	70	130				S
Bromomethane	1.170	0.15	1	0	117	70	130				
Carbon disulfide	1.150	0.15	1	0	115	70	130				
Carbon tetrachloride	1.070	0.15	1	0	107	70	130				
Chlorobenzene	1.030	0.15	1	0	103	70	130				
Chloroethane	1.220	0.15	1	0	122	70	130				
Chloroform	1.070	0.15	1	0	107	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.030	0.15	1	0	103	70	130				
Dibromochloromethane	0.9300	0.15	1	0	93.0	70	130				
Ethyl acetate	1.010	0.25	1	0	101	70	130				
Ethylbenzene	0.9900	0.15	1	0	99.0	70	130				
Freon 11	1.120	0.15	1	0	112	70	130				
Freon 113	1.130	0.15	1	0	113	70	130				
Freon 114	1.220	0.15	1	0	122	70	130				
Freon 12	1.170	0.15	1	0	117	70	130				
Heptane	1.080	0.15	1	0	108	70	130				
Hexachloro-1,3-butadiene	1.010	0.15	1	0	101	70	130				
Hexane	0.9700	0.15	1	0	97.0	70	130				
Isopropyl alcohol	1.100	0.15	1	0	110	70	130				
m&p-Xylene	2.020	0.30	2	0	101	70	130				
Methyl Butyl Ketone	0.5400	0.30	1	0	54.0	70	130				S
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Isobutyl Ketone	0.6100	0.30	1	0	61.0	70	130				S

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-031615** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/16/2015** SeqNo: **111480**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.020	0.15	1	0	102	70	130				
Methylene chloride	1.220	0.15	1	0	122	70	130				
o-Xylene	1.210	0.15	1	0	121	70	130				
Propylene	1.150	0.15	1	0	115	70	130				
Styrene	1.130	0.15	1	0	113	70	130				
Tetrachloroethylene	0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran	0.9400	0.15	1	0	94.0	70	130				
Toluene	0.9700	0.15	1	0	97.0	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130				
Trichloroethene	1.130	0.15	1	0	113	70	130				
Vinyl acetate	1.020	0.15	1	0	102	70	130				
Vinyl Bromide	1.080	0.15	1	0	108	70	130				
Vinyl chloride	1.140	0.15	1	0	114	70	130				

Sample ID **ALCS1UGD-031615** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/17/2015** SeqNo: **111481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130	1.18	7.93	30	
1,1,2,2-Tetrachloroethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	
1,1,2-Trichloroethane	1.130	0.15	1	0	113	70	130	1.15	1.75	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	1.14	10.1	30	
1,1-Dichloroethene	1.230	0.15	1	0	123	70	130	1.16	5.86	30	
1,2,4-Trichlorobenzene	0.8700	0.15	1	0	87.0	70	130	0.97	10.9	30	
1,2,4-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.93	5.52	30	
1,2-Dibromoethane	1.050	0.15	1	0	105	70	130	1.08	2.82	30	
1,2-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.12	0.897	30	
1,2-Dichloroethane	1.110	0.15	1	0	111	70	130	1.1	0.905	30	
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130	1.1	11.5	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-031615	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	9418
Client ID:	ZZZZZ	Batch ID:	R9418	TestNo:	TO-15			Analysis Date:	3/17/2015	SeqNo:	111481

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	1.110	0.15	1	0	111	70	130	1.09	1.82	30	
1,3-butadiene	1.200	0.15	1	0	120	70	130	1.18	1.68	30	
1,3-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1.14	1.77	30	
1,4-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.14	2.67	30	
1,4-Dioxane	0.8700	0.30	1	0	87.0	70	130	0.88	1.14	30	
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130	1.06	10.9	30	
4-ethyltoluene	0.9600	0.15	1	0	96.0	70	130	1.01	5.08	30	
Acetone	0.9300	0.30	1	0	93.0	70	130	1.18	23.7	30	
Allyl chloride	0.8700	0.15	1	0	87.0	70	130	0.96	9.84	30	
Benzene	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Benzyl chloride	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
Bromodichloromethane	1.080	0.15	1	0	108	70	130	1.15	6.28	30	
Bromoform	0.6800	0.15	1	0	68.0	70	130	0.66	2.99	30	S
Bromomethane	1.270	0.15	1	0	127	70	130	1.17	8.20	30	
Carbon disulfide	1.130	0.15	1	0	113	70	130	1.15	1.75	30	
Carbon tetrachloride	1.070	0.15	1	0	107	70	130	1.07	0	30	
Chlorobenzene	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
Chloroethane	1.220	0.15	1	0	122	70	130	1.22	0	30	
Chloroform	1.120	0.15	1	0	112	70	130	1.07	4.57	30	
Chloromethane	1.160	0.15	1	0	116	70	130	1.15	0.866	30	
cis-1,2-Dichloroethene	1.090	0.15	1	0	109	70	130	0.99	9.62	30	
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130	1.08	11.8	30	
Cyclohexane	0.9600	0.15	1	0	96.0	70	130	1.03	7.04	30	
Dibromochloromethane	1.010	0.15	1	0	101	70	130	0.93	8.25	30	
Ethyl acetate	1.020	0.25	1	0	102	70	130	1.01	0.985	30	
Ethylbenzene	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30	
Freon 11	1.140	0.15	1	0	114	70	130	1.12	1.77	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.13	5.17	30	
Freon 114	1.180	0.15	1	0	118	70	130	1.22	3.33	30	
Freon 12	1.220	0.15	1	0	122	70	130	1.17	4.18	30	
Heptane	0.9400	0.15	1	0	94.0	70	130	1.08	13.9	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: Piedmont Industrial Services, Inc
Work Order: C1503025
Project: 955 Brookstown

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-031615** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **9418**
Client ID: **ZZZZZ** Batch ID: **R9418** TestNo: **TO-15** Analysis Date: **3/17/2015** SeqNo: **111481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130	1.01	5.77	30	
Hexane	1.000	0.15	1	0	100	70	130	0.97	3.05	30	
Isopropyl alcohol	1.080	0.15	1	0	108	70	130	1.1	1.83	30	
m&p-Xylene	1.920	0.30	2	0	96.0	70	130	2.02	5.08	30	
Methyl Butyl Ketone	0.5000	0.30	1	0	50.0	70	130	0.54	7.69	30	S
Methyl Ethyl Ketone	1.140	0.30	1	0	114	70	130	0.99	14.1	30	
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130	0.61	13.7	30	
Methyl tert-butyl ether	1.010	0.15	1	0	101	70	130	1.02	0.985	30	
Methylene chloride	1.090	0.15	1	0	109	70	130	1.22	11.3	30	
o-Xylene	1.040	0.15	1	0	104	70	130	1.21	15.1	30	
Propylene	1.110	0.15	1	0	111	70	130	1.15	3.54	30	
Styrene	1.020	0.15	1	0	102	70	130	1.13	10.2	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	0.97	7.92	30	
Tetrahydrofuran	0.8900	0.15	1	0	89.0	70	130	0.94	5.46	30	
Toluene	1.100	0.15	1	0	110	70	130	0.97	12.6	30	
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130	1.1	0.905	30	
trans-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.01	0	30	
Trichloroethene	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
Vinyl acetate	0.9700	0.15	1	0	97.0	70	130	1.02	5.03	30	
Vinyl Bromide	1.170	0.15	1	0	117	70	130	1.08	8.00	30	
Vinyl chloride	1.170	0.15	1	0	117	70	130	1.14	2.60	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-1
Lab Order:	C1503025	**Tag Number:**	322.60
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-3			"Hg		3/10/2015
Lab Vacuum Out	-30			"Hg		3/10/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.3	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/17/2015 7:26:00 AM
2,2,4-trimethylpentane	0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Acetone	7.9	3.0		ppbV	10	3/16/2015 10:48:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Benzene	0.33	0.15		ppbV	1	3/17/2015 7:26:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Carbon disulfide	0.18	0.15		ppbV	1	3/17/2015 7:26:00 AM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	3/17/2015 7:26:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
cis-1,2-Dichloroethene	0.73	0.15		ppbV	1	3/17/2015 7:26:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/17/2015 7:26:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-1
Lab Order:	C1503025	**Tag Number:**	322.60
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Freon 11	0.29	0.15		ppbV	1	3/17/2015 7:26:00 AM
Freon 113	0.10	0.15	J	ppbV	1	3/17/2015 7:26:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Freon 12	0.70	0.15		ppbV	1	3/17/2015 7:26:00 AM
Heptane	0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Hexane	0.36	0.15		ppbV	1	3/17/2015 7:26:00 AM
Isopropyl alcohol	3.2	1.5		ppbV	10	3/16/2015 10:48:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	3/17/2015 7:26:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 7:26:00 AM
Methyl Ethyl Ketone	0.81	0.30		ppbV	1	3/17/2015 7:26:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 7:26:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Methylene chloride	0.26	0.15		ppbV	1	3/17/2015 7:26:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Toluene	0.83	0.15		ppbV	1	3/17/2015 7:26:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 7:26:00 AM
Surr: Bromofluorobenzene	79.0	70-130		%REC	1	3/17/2015 7:26:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-2
Lab Order:	C1503025	**Tag Number:**	553.178
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		3/10/2015
Lab Vacuum Out	-30			"Hg		3/10/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,1,2-Trichloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,1-Dichloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,1-Dichloroethene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2,4-Trichlorobenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2,4-Trimethylbenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2-Dibromoethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2-Dichlorobenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2-Dichloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,2-Dichloropropane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,3,5-Trimethylbenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,3-butadiene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,3-Dichlorobenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,4-Dichlorobenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
1,4-Dioxane	< 3.0	3.0		ppbV	10	3/16/2015 11:24:00 PM
2,2,4-trimethylpentane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
4-ethyltoluene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Acetone	6.7	3.0		ppbV	10	3/16/2015 11:24:00 PM
Allyl chloride	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Benzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Benzyl chloride	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Bromodichloromethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Bromoform	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Bromomethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Carbon disulfide	8.3	1.5		ppbV	10	3/16/2015 11:24:00 PM
Carbon tetrachloride	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Chlorobenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Chloroethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Chloroform	1.9	1.5		ppbV	10	3/16/2015 11:24:00 PM
Chloromethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
cis-1,2-Dichloroethene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
cis-1,3-Dichloropropene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Cyclohexane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Dibromochloromethane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Ethyl acetate	< 2.5	2.5		ppbV	10	3/16/2015 11:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-2
Lab Order:	C1503025	**Tag Number:**	553.178
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Freon 11	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Freon 113	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Freon 114	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Freon 12	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Heptane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Hexachloro-1,3-butadiene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Hexane	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Isopropyl alcohol	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
m&p-Xylene	< 3.0	3.0		ppbV	10	3/16/2015 11:24:00 PM
Methyl Butyl Ketone	< 3.0	3.0		ppbV	10	3/16/2015 11:24:00 PM
Methyl Ethyl Ketone	< 3.0	3.0		ppbV	10	3/16/2015 11:24:00 PM
Methyl Isobutyl Ketone	< 3.0	3.0		ppbV	10	3/16/2015 11:24:00 PM
Methyl tert-butyl ether	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Methylene chloride	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
o-Xylene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Propylene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Styrene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Tetrachloroethylene	4000	360		ppbV	2430	3/17/2015 8:01:00 AM
Tetrahydrofuran	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Toluene	1.2	1.5	J	ppbV	10	3/16/2015 11:24:00 PM
trans-1,2-Dichloroethene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
trans-1,3-Dichloropropene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Trichloroethene	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Vinyl acetate	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Vinyl Bromide	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Vinyl chloride	< 1.5	1.5		ppbV	10	3/16/2015 11:24:00 PM
Surr: Bromofluorobenzene	74.0	70-130		%REC	10	3/16/2015 11:24:00 PM

NOTES:
Unable to analyze at lower detection limit due to high concetration of PCE.

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-3
Lab Order:	C1503025	**Tag Number:**	1289.124
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-1			"Hg		3/10/2015
Lab Vacuum Out	-30			"Hg		3/10/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.16	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/17/2015 6:10:00 AM
2,2,4-trimethylpentane	0.40	0.15		ppbV	1	3/17/2015 6:10:00 AM
4-ethyltoluene	0.39	0.15		ppbV	1	3/17/2015 6:10:00 AM
Acetone	8.5	3.0		ppbV	10	3/16/2015 11:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Benzene	0.57	0.15		ppbV	1	3/17/2015 6:10:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Bromodichloromethane	0.18	0.15		ppbV	1	3/17/2015 6:10:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Chloroform	1.4	0.15		ppbV	1	3/17/2015 6:10:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Cyclohexane	0.64	0.15		ppbV	1	3/17/2015 6:10:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/17/2015 6:10:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-3
Lab Order:	C1503025	**Tag Number:**	1289.124
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.77	0.15		ppbV	1	3/17/2015 6:10:00 AM
Freon 11	0.81	0.15		ppbV	1	3/17/2015 6:10:00 AM
Freon 113	0.11	0.15	J	ppbV	1	3/17/2015 6:10:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Freon 12	3.4	1.5		ppbV	10	3/16/2015 11:59:00 PM
Heptane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Isopropyl alcohol	5.1	1.5		ppbV	10	3/16/2015 11:59:00 PM
m&p-Xylene	3.1	0.30		ppbV	1	3/17/2015 6:10:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 6:10:00 AM
Methyl Ethyl Ketone	3.2	3.0		ppbV	10	3/16/2015 11:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 6:10:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Methylene chloride	0.45	0.15		ppbV	1	3/17/2015 6:10:00 AM
o-Xylene	1.0	0.15		ppbV	1	3/17/2015 6:10:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Styrene	0.29	0.15		ppbV	1	3/17/2015 6:10:00 AM
Tetrachloroethylene	20	1.5		ppbV	10	3/16/2015 11:59:00 PM
Tetrahydrofuran	4.2	1.5		ppbV	10	3/16/2015 11:59:00 PM
Toluene	4.2	1.5		ppbV	10	3/16/2015 11:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:10:00 AM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	3/17/2015 6:10:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-4
Lab Order:	C1503025	**Tag Number:**	555.125
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		3/10/2015
Lab Vacuum Out	-30			"Hg		3/10/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.76	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2,4-Trimethylbenzene	0.73	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,3,5-Trimethylbenzene	0.27	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
1,4-Dioxane	0.14	0.30	J	ppbV	1	3/17/2015 6:47:00 AM
2,2,4-trimethylpentane	0.22	0.15		ppbV	1	3/17/2015 6:47:00 AM
4-ethyltoluene	0.31	0.15		ppbV	1	3/17/2015 6:47:00 AM
Acetone	11	3.0		ppbV	10	3/17/2015 12:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Benzene	0.51	0.15		ppbV	1	3/17/2015 6:47:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Bromodichloromethane	0.12	0.15	J	ppbV	1	3/17/2015 6:47:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Chloroform	7.1	1.5		ppbV	10	3/17/2015 12:34:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
cis-1,2-Dichloroethene	0.53	0.15		ppbV	1	3/17/2015 6:47:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Cyclohexane	0.38	0.15		ppbV	1	3/17/2015 6:47:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Ethyl acetate	1.0	0.25		ppbV	1	3/17/2015 6:47:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-4
Lab Order:	C1503025	**Tag Number:**	555.125
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.93	0.15		ppbV	1	3/17/2015 6:47:00 AM
Freon 11	0.33	0.15		ppbV	1	3/17/2015 6:47:00 AM
Freon 113	0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Freon 12	0.71	0.15		ppbV	1	3/17/2015 6:47:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Isopropyl alcohol	5.1	1.5		ppbV	10	3/17/2015 12:34:00 AM
m&p-Xylene	3.6	0.30		ppbV	1	3/17/2015 6:47:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 6:47:00 AM
Methyl Ethyl Ketone	3.0	3.0		ppbV	10	3/17/2015 12:34:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/17/2015 6:47:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Methylene chloride	0.40	0.15		ppbV	1	3/17/2015 6:47:00 AM
o-Xylene	1.1	0.15		ppbV	1	3/17/2015 6:47:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Styrene	0.26	0.15		ppbV	1	3/17/2015 6:47:00 AM
Tetrachloroethylene	20	1.5		ppbV	10	3/17/2015 12:34:00 AM
Tetrahydrofuran	3.5	1.5		ppbV	10	3/17/2015 12:34:00 AM
Toluene	3.1	1.5		ppbV	10	3/17/2015 12:34:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/17/2015 6:47:00 AM
Surr: Bromofluorobenzene	89.0	70-130		%REC	1	3/17/2015 6:47:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-1
Lab Order:	C1503025	**Tag Number:**	322.60
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.9	0.82		ug/m3	1	3/17/2015 7:26:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/17/2015 7:26:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/17/2015 7:26:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 7:26:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 7:26:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/17/2015 7:26:00 AM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/17/2015 7:26:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/17/2015 7:26:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 7:26:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 7:26:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/17/2015 7:26:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	3/17/2015 7:26:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/17/2015 7:26:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 7:26:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 7:26:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/17/2015 7:26:00 AM
2,2,4-trimethylpentane	0.70	0.70		ug/m3	1	3/17/2015 7:26:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	3/17/2015 7:26:00 AM
Acetone	19	7.1		ug/m3	10	3/16/2015 10:48:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/17/2015 7:26:00 AM
Benzene	1.1	0.48		ug/m3	1	3/17/2015 7:26:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/17/2015 7:26:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/17/2015 7:26:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/17/2015 7:26:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/17/2015 7:26:00 AM
Carbon disulfide	0.56	0.47		ug/m3	1	3/17/2015 7:26:00 AM
Carbon tetrachloride	0.69	0.94	J	ug/m3	1	3/17/2015 7:26:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/17/2015 7:26:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/17/2015 7:26:00 AM
Chloroform	< 0.73	0.73		ug/m3	1	3/17/2015 7:26:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/17/2015 7:26:00 AM
cis-1,2-Dichloroethene	2.9	0.59		ug/m3	1	3/17/2015 7:26:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 7:26:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/17/2015 7:26:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/17/2015 7:26:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	3/17/2015 7:26:00 AM
Ethylbenzene	< 0.65	0.65		ug/m3	1	3/17/2015 7:26:00 AM
Freon 11	1.6	0.84		ug/m3	1	3/17/2015 7:26:00 AM
Freon 113	0.77	1.1	J	ug/m3	1	3/17/2015 7:26:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/17/2015 7:26:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-1
Lab Order:	C1503025	**Tag Number:**	322.60
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.74		ug/m3	1	3/17/2015 7:26:00 AM
Heptane	0.61	0.61		ug/m3	1	3/17/2015 7:26:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/17/2015 7:26:00 AM
Hexane	1.3	0.53		ug/m3	1	3/17/2015 7:26:00 AM
Isopropyl alcohol	7.9	3.7		ug/m3	10	3/16/2015 10:48:00 PM
m&p-Xylene	0.69	1.3	J	ug/m3	1	3/17/2015 7:26:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 7:26:00 AM
Methyl Ethyl Ketone	2.4	0.88		ug/m3	1	3/17/2015 7:26:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 7:26:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/17/2015 7:26:00 AM
Methylene chloride	0.90	0.52		ug/m3	1	3/17/2015 7:26:00 AM
o-Xylene	< 0.65	0.65		ug/m3	1	3/17/2015 7:26:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/17/2015 7:26:00 AM
Styrene	< 0.64	0.64		ug/m3	1	3/17/2015 7:26:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/17/2015 7:26:00 AM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	3/17/2015 7:26:00 AM
Toluene	3.1	0.57		ug/m3	1	3/17/2015 7:26:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 7:26:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 7:26:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	3/17/2015 7:26:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/17/2015 7:26:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/17/2015 7:26:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/17/2015 7:26:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-2
Lab Order:	C1503025	**Tag Number:**	553.178
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 8.2	8.2		ug/m3	10	3/16/2015 11:24:00 PM
1,1,2,2-Tetrachloroethane	< 10	10		ug/m3	10	3/16/2015 11:24:00 PM
1,1,2-Trichloroethane	< 8.2	8.2		ug/m3	10	3/16/2015 11:24:00 PM
1,1-Dichloroethane	< 6.1	6.1		ug/m3	10	3/16/2015 11:24:00 PM
1,1-Dichloroethene	< 5.9	5.9		ug/m3	10	3/16/2015 11:24:00 PM
1,2,4-Trichlorobenzene	< 11	11		ug/m3	10	3/16/2015 11:24:00 PM
1,2,4-Trimethylbenzene	< 7.4	7.4		ug/m3	10	3/16/2015 11:24:00 PM
1,2-Dibromoethane	< 12	12		ug/m3	10	3/16/2015 11:24:00 PM
1,2-Dichlorobenzene	< 9.0	9.0		ug/m3	10	3/16/2015 11:24:00 PM
1,2-Dichloroethane	< 6.1	6.1		ug/m3	10	3/16/2015 11:24:00 PM
1,2-Dichloropropane	< 6.9	6.9		ug/m3	10	3/16/2015 11:24:00 PM
1,3,5-Trimethylbenzene	< 7.4	7.4		ug/m3	10	3/16/2015 11:24:00 PM
1,3-butadiene	< 3.3	3.3		ug/m3	10	3/16/2015 11:24:00 PM
1,3-Dichlorobenzene	< 9.0	9.0		ug/m3	10	3/16/2015 11:24:00 PM
1,4-Dichlorobenzene	< 9.0	9.0		ug/m3	10	3/16/2015 11:24:00 PM
1,4-Dioxane	< 11	11		ug/m3	10	3/16/2015 11:24:00 PM
2,2,4-trimethylpentane	< 7.0	7.0		ug/m3	10	3/16/2015 11:24:00 PM
4-ethyltoluene	< 7.4	7.4		ug/m3	10	3/16/2015 11:24:00 PM
Acetone	16	7.1		ug/m3	10	3/16/2015 11:24:00 PM
Allyl chloride	< 4.7	4.7		ug/m3	10	3/16/2015 11:24:00 PM
Benzene	< 4.8	4.8		ug/m3	10	3/16/2015 11:24:00 PM
Benzyl chloride	< 8.6	8.6		ug/m3	10	3/16/2015 11:24:00 PM
Bromodichloromethane	< 10	10		ug/m3	10	3/16/2015 11:24:00 PM
Bromoform	< 16	16		ug/m3	10	3/16/2015 11:24:00 PM
Bromomethane	< 5.8	5.8		ug/m3	10	3/16/2015 11:24:00 PM
Carbon disulfide	26	4.7		ug/m3	10	3/16/2015 11:24:00 PM
Carbon tetrachloride	< 9.4	9.4		ug/m3	10	3/16/2015 11:24:00 PM
Chlorobenzene	< 6.9	6.9		ug/m3	10	3/16/2015 11:24:00 PM
Chloroethane	< 4.0	4.0		ug/m3	10	3/16/2015 11:24:00 PM
Chloroform	9.3	7.3		ug/m3	10	3/16/2015 11:24:00 PM
Chloromethane	< 3.1	3.1		ug/m3	10	3/16/2015 11:24:00 PM
cis-1,2-Dichloroethene	< 5.9	5.9		ug/m3	10	3/16/2015 11:24:00 PM
cis-1,3-Dichloropropene	< 6.8	6.8		ug/m3	10	3/16/2015 11:24:00 PM
Cyclohexane	< 5.2	5.2		ug/m3	10	3/16/2015 11:24:00 PM
Dibromochloromethane	< 13	13		ug/m3	10	3/16/2015 11:24:00 PM
Ethyl acetate	< 9.0	9.0		ug/m3	10	3/16/2015 11:24:00 PM
Ethylbenzene	< 6.5	6.5		ug/m3	10	3/16/2015 11:24:00 PM
Freon 11	< 8.4	8.4		ug/m3	10	3/16/2015 11:24:00 PM
Freon 113	< 11	11		ug/m3	10	3/16/2015 11:24:00 PM
Freon 114	< 10	10		ug/m3	10	3/16/2015 11:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-2
Lab Order:	C1503025	**Tag Number:**	553.178
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 7.4	7.4		ug/m3	10	3/16/2015 11:24:00 PM
Heptane	< 6.1	6.1		ug/m3	10	3/16/2015 11:24:00 PM
Hexachloro-1,3-butadiene	< 16	16		ug/m3	10	3/16/2015 11:24:00 PM
Hexane	< 5.3	5.3		ug/m3	10	3/16/2015 11:24:00 PM
Isopropyl alcohol	< 3.7	3.7		ug/m3	10	3/16/2015 11:24:00 PM
m&p-Xylene	< 13	13		ug/m3	10	3/16/2015 11:24:00 PM
Methyl Butyl Ketone	< 12	12		ug/m3	10	3/16/2015 11:24:00 PM
Methyl Ethyl Ketone	< 8.8	8.8		ug/m3	10	3/16/2015 11:24:00 PM
Methyl Isobutyl Ketone	< 12	12		ug/m3	10	3/16/2015 11:24:00 PM
Methyl tert-butyl ether	< 5.4	5.4		ug/m3	10	3/16/2015 11:24:00 PM
Methylene chloride	< 5.2	5.2		ug/m3	10	3/16/2015 11:24:00 PM
o-Xylene	< 6.5	6.5		ug/m3	10	3/16/2015 11:24:00 PM
Propylene	< 2.6	2.6		ug/m3	10	3/16/2015 11:24:00 PM
Styrene	< 6.4	6.4		ug/m3	10	3/16/2015 11:24:00 PM
Tetrachloroethylene	27000	2400		ug/m3	2430	3/17/2015 8:01:00 AM
Tetrahydrofuran	< 4.4	4.4		ug/m3	10	3/16/2015 11:24:00 PM
Toluene	4.5	5.7	J	ug/m3	10	3/16/2015 11:24:00 PM
trans-1,2-Dichloroethene	< 5.9	5.9		ug/m3	10	3/16/2015 11:24:00 PM
trans-1,3-Dichloropropene	< 6.8	6.8		ug/m3	10	3/16/2015 11:24:00 PM
Trichloroethene	< 8.1	8.1		ug/m3	10	3/16/2015 11:24:00 PM
Vinyl acetate	< 5.3	5.3		ug/m3	10	3/16/2015 11:24:00 PM
Vinyl Bromide	< 6.6	6.6		ug/m3	10	3/16/2015 11:24:00 PM
Vinyl chloride	< 3.8	3.8		ug/m3	10	3/16/2015 11:24:00 PM

NOTES:
Unable to analyze at lower detection limit due to high concetration of PCE.

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-3
Lab Order:	C1503025	**Tag Number:**	1289.124
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.87	0.82		ug/m3	1	3/17/2015 6:10:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/17/2015 6:10:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/17/2015 6:10:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 6:10:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 6:10:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/17/2015 6:10:00 AM
1,2,4-Trimethylbenzene	6.8	0.74		ug/m3	1	3/17/2015 6:10:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/17/2015 6:10:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:10:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 6:10:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/17/2015 6:10:00 AM
1,3,5-Trimethylbenzene	2.0	0.74		ug/m3	1	3/17/2015 6:10:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/17/2015 6:10:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:10:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:10:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/17/2015 6:10:00 AM
2,2,4-trimethylpentane	1.9	0.70		ug/m3	1	3/17/2015 6:10:00 AM
4-ethyltoluene	1.9	0.74		ug/m3	1	3/17/2015 6:10:00 AM
Acetone	20	7.1		ug/m3	10	3/16/2015 11:59:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/17/2015 6:10:00 AM
Benzene	1.8	0.48		ug/m3	1	3/17/2015 6:10:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/17/2015 6:10:00 AM
Bromodichloromethane	1.2	1.0		ug/m3	1	3/17/2015 6:10:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/17/2015 6:10:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/17/2015 6:10:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/17/2015 6:10:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/17/2015 6:10:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/17/2015 6:10:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/17/2015 6:10:00 AM
Chloroform	7.1	0.73		ug/m3	1	3/17/2015 6:10:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/17/2015 6:10:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 6:10:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 6:10:00 AM
Cyclohexane	2.2	0.52		ug/m3	1	3/17/2015 6:10:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/17/2015 6:10:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	3/17/2015 6:10:00 AM
Ethylbenzene	3.3	0.65		ug/m3	1	3/17/2015 6:10:00 AM
Freon 11	4.6	0.84		ug/m3	1	3/17/2015 6:10:00 AM
Freon 113	0.84	1.1	J	ug/m3	1	3/17/2015 6:10:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/17/2015 6:10:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-3
Lab Order:	C1503025	**Tag Number:**	1289.124
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	17	7.4		ug/m3	10	3/16/2015 11:59:00 PM
Heptane	< 0.61	0.61		ug/m3	1	3/17/2015 6:10:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/17/2015 6:10:00 AM
Hexane	< 0.53	0.53		ug/m3	1	3/17/2015 6:10:00 AM
Isopropyl alcohol	13	3.7		ug/m3	10	3/16/2015 11:59:00 PM
m&p-Xylene	14	1.3		ug/m3	1	3/17/2015 6:10:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 6:10:00 AM
Methyl Ethyl Ketone	9.4	8.8		ug/m3	10	3/16/2015 11:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 6:10:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/17/2015 6:10:00 AM
Methylene chloride	1.6	0.52		ug/m3	1	3/17/2015 6:10:00 AM
o-Xylene	4.5	0.65		ug/m3	1	3/17/2015 6:10:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/17/2015 6:10:00 AM
Styrene	1.2	0.64		ug/m3	1	3/17/2015 6:10:00 AM
Tetrachloroethylene	130	10		ug/m3	10	3/16/2015 11:59:00 PM
Tetrahydrofuran	12	4.4		ug/m3	10	3/16/2015 11:59:00 PM
Toluene	16	5.7		ug/m3	10	3/16/2015 11:59:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 6:10:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 6:10:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	3/17/2015 6:10:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/17/2015 6:10:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/17/2015 6:10:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/17/2015 6:10:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-4
Lab Order:	C1503025	**Tag Number:**	555.125
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	4.1	0.82		ug/m3	1	3/17/2015 6:47:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/17/2015 6:47:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	3/17/2015 6:47:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 6:47:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 6:47:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/17/2015 6:47:00 AM
1,2,4-Trimethylbenzene	3.6	0.74		ug/m3	1	3/17/2015 6:47:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/17/2015 6:47:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:47:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	3/17/2015 6:47:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	3/17/2015 6:47:00 AM
1,3,5-Trimethylbenzene	1.3	0.74		ug/m3	1	3/17/2015 6:47:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	3/17/2015 6:47:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:47:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	3/17/2015 6:47:00 AM
1,4-Dioxane	0.50	1.1	J	ug/m3	1	3/17/2015 6:47:00 AM
2,2,4-trimethylpentane	1.0	0.70		ug/m3	1	3/17/2015 6:47:00 AM
4-ethyltoluene	1.5	0.74		ug/m3	1	3/17/2015 6:47:00 AM
Acetone	25	7.1		ug/m3	10	3/17/2015 12:34:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	3/17/2015 6:47:00 AM
Benzene	1.6	0.48		ug/m3	1	3/17/2015 6:47:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	3/17/2015 6:47:00 AM
Bromodichloromethane	0.80	1.0	J	ug/m3	1	3/17/2015 6:47:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/17/2015 6:47:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	3/17/2015 6:47:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/17/2015 6:47:00 AM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	3/17/2015 6:47:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	3/17/2015 6:47:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/17/2015 6:47:00 AM
Chloroform	35	7.3		ug/m3	10	3/17/2015 12:34:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/17/2015 6:47:00 AM
cis-1,2-Dichloroethene	2.1	0.59		ug/m3	1	3/17/2015 6:47:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 6:47:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	3/17/2015 6:47:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/17/2015 6:47:00 AM
Ethyl acetate	3.6	0.90		ug/m3	1	3/17/2015 6:47:00 AM
Ethylbenzene	4.0	0.65		ug/m3	1	3/17/2015 6:47:00 AM
Freon 11	1.9	0.84		ug/m3	1	3/17/2015 6:47:00 AM
Freon 113	1.1	1.1		ug/m3	1	3/17/2015 6:47:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	3/17/2015 6:47:00 AM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *17-Mar-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-4
Lab Order:	C1503025	**Tag Number:**	555.125
Project:	955 Brookstown	**Collection Date:**	3/9/2015
Lab ID:	C1503025-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.74		ug/m3	1	3/17/2015 6:47:00 AM
Heptane	< 0.61	0.61		ug/m3	1	3/17/2015 6:47:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/17/2015 6:47:00 AM
Hexane	< 0.53	0.53		ug/m3	1	3/17/2015 6:47:00 AM
Isopropyl alcohol	13	3.7		ug/m3	10	3/17/2015 12:34:00 AM
m&p-Xylene	16	1.3		ug/m3	1	3/17/2015 6:47:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 6:47:00 AM
Methyl Ethyl Ketone	8.8	8.8		ug/m3	10	3/17/2015 12:34:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/17/2015 6:47:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	3/17/2015 6:47:00 AM
Methylene chloride	1.4	0.52		ug/m3	1	3/17/2015 6:47:00 AM
o-Xylene	4.8	0.65		ug/m3	1	3/17/2015 6:47:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/17/2015 6:47:00 AM
Styrene	1.1	0.64		ug/m3	1	3/17/2015 6:47:00 AM
Tetrachloroethylene	130	10		ug/m3	10	3/17/2015 12:34:00 AM
Tetrahydrofuran	10	4.4		ug/m3	10	3/17/2015 12:34:00 AM
Toluene	12	5.7		ug/m3	10	3/17/2015 12:34:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	3/17/2015 6:47:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	3/17/2015 6:47:00 AM
Trichloroethene	< 0.81	0.81		ug/m3	1	3/17/2015 6:47:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	3/17/2015 6:47:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	3/17/2015 6:47:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	3/17/2015 6:47:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Jason Jomp
Piedmont Industrial Services, Inc
1680 Lowery St
Winston-Salem, NC 27101

TEL: (336) 722-6505
FAX (336) 722-6529

RE: 955 Brookstown

Wednesday, May 13, 2015
Order No.: C1505012

Dear Jason Jomp:

Centek Laboratories, LLC received 3 sample(s) on 5/5/2015 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

William Dobbin
Lead Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable

for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages. ELAP does not offer certification for the following parameters by this method at present time, they are: 4-ethyltoluene, ethyl acetate, propylene, 4-PCH, sulfur derived and silcon series compounds.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted

for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

CENTEK LABORATORIES, LLC

Date: *18-May-15*

CLIENT: Piedmont Industrial Services, Inc

Project: 955 Brookstown

Lab Order: C1505012

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999 and Centek Laboratories, LLC SOP TS-80:

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

NYSDEC ASP samples:
Canisters should be evacuated to a reading of less than or equal to 50 millitorr prior to shipment to sampling personnel. The vacuum in the canister will be field checked prior to sampling, and must read 28" of Hg (±2", vacuum, absolute) before a sample can be collected. After the sample has been collected, the pressure of the canister will be read and recorded again, and must be 5" of Hg (±1", vacuum, absolute) for the sample to be valid. Once received at the laboratory, the canister vacuum should be confirmed to be 5" of Hg,±1". Please record and report the pressure/vacuum of received canisters on the sample receipt paperwork. A pressure/vacuum reading should also be taken just prior to the withdrawal of sample from the canister, and recorded on the sample preparation log sheet. All regulators are calibrated to meet these requirements before they leave the laboratory. However, due to environmental conditions and use of the equipment Centek can not guarantee that this criteria can always be achieved.

Centek Chain of Custody

Centek Laboratories
143 Midler Park Drive
Syracuse, NY 13206
315-431-9730
www.CentekLabs.com

Vapor Intrusion & IAQ

Site Name: 955 Brookstown
Project: CRA
PO#: CRA
Quote #: Q-SP1
Other: 1804991

Detection Limit	Report Level
☐ 5ppbv	☐ Level I
☐ 1ug/M3	☒ Level II
☐ 1ug/M3 +TCE .25	☐ Cat "B" Like

Turnaround Time:	Check One	Rush TAT Surcharge %	Due Date:
5 Business Days	☑	0%	
4 Business Days	☐	25%	
3 Business Days	☐	50%	
2 Business Days	☐	75%	
Next Day by 5pm	☐	100%	
Next Day by Noon	☐	150%	
Same Day	☐	200%	

Company: Piedmont Industrial Services
Report to: Jason Jump
Address: 1680 Lowery Street
City, State, Zip: Winston-Salem, NC 27101
Email: jejump@pis-inc.com
Phone: 336-722-6505

Company: Check Here If Same: ☑
Invoice to:
Address:
City, State, Zip
Email:
Phone:

Sample ID	Date Sampled	Canister Number	Regulator Number	Analysis Request	Comments	Vacuum Start/Stop
VP-5	5/4/15	360	184	TO15	pid = 0 ppm	-30" Hg / -2.5" Hg
VP-6	↓	130	67	↓	pid = 1.2 ppm	-29" Hg / -1.5" Hg
VP-7	↓	1195	111	↓	pid = 15.1 ppm	-30" Hg / -1.0" Hg
					Relinquished @ 1227	

Chain of Custody	Print Name	Signature	Date/Time
Sampled by:	Jason Jump	[signature]	5/4/15 1227
Relinquished by:	Jason Jump	[signature]	5/4/15 1337
Received at Lab by:	Ian Cala	[signature]	5-5-15

Courier: CIRCLE ONE
FedEx UPS Pickup/Dropoff

For LAB USE ONLY
Work Order # C1505012

*** By signing Centek Labs Chain of Custody, you are accepting Centek Labs Terms and Conditions listed on the reverse side.

CENTEK LABORATORIES, LLC

Sample Receipt Checklist

Client Name PIEDMONTINDUSTRIAL

Date and Time Receive 5/5/2015

Work Order Numbe C1505012

Received by JDS

Checklist completed by [signature] 5-5-15 (Signature / Date)

Reviewed by WD 5/5/15 (Initials / Date)

Matrix:

Carrier name: FedEx Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CENTEK LABORATORIES, LLC

Date: *18-May-15*

CLIENT: Piedmont Industrial Services, Inc
Project: 955 Brookstown
Lab Order: C1505012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1505012-001A	VP -5	360,184	5/4/2015	5/5/2015
C1505012-002A	VP-6	130,67	5/4/2015	5/5/2015
C1505012-003A	VP-7	1195,111	5/4/2015	5/5/2015

Centek Laboratories, LLC

18-May-15

Lab Order: C1505012
Client: Piedmont Industrial Services, Inc
Project: 955 Brookstown

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1505012-001A	VP -5	5/4/2015	Air	1ug/M3 by Method TO15			5/12/2015
				1ug/M3 by Method TO15			5/6/2015
				5ppb by Method TO15			5/12/2015
C1505012-002A	VP-6			1ug/M3 by Method TO15			5/12/2015
				1ug/M3 by Method TO15			5/7/2015
				5ppb by Method TO15			5/12/2015
C1505012-003A	VP-7			1ug/M3 by Method TO15			5/12/2015
				1ug/M3 by Method TO15			5/7/2015
				5ppb by Method TO15			5/12/2015

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP -5
Lab Order:	C1505012	**Tag Number:**	360,184
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		5/5/2015
Lab Vacuum Out	-30			"Hg		5/5/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,1-Dichloroethene	0.12	0.15	J	ppbV	1	5/6/2015 11:47:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,2,4-Trimethylbenzene	0.62	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,3,5-Trimethylbenzene	0.24	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/6/2015 11:47:00 PM
2,2,4-trimethylpentane	0.12	0.15	J	ppbV	1	5/6/2015 11:47:00 PM
4-ethyltoluene	0.22	0.15		ppbV	1	5/6/2015 11:47:00 PM
Acetone	2.0	0.30		ppbV	1	5/12/2015 1:41:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Benzene	0.70	0.15		ppbV	1	5/6/2015 11:47:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Carbon disulfide	5.1	0.15		ppbV	1	5/12/2015 1:41:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Chloroform	0.32	0.15		ppbV	1	5/12/2015 1:41:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/6/2015 11:47:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP -5
Lab Order:	C1505012	**Tag Number:**	360,184
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.38	0.15		ppbV	1	5/6/2015 11:47:00 PM
Freon 11	0.66	0.15		ppbV	1	5/6/2015 11:47:00 PM
Freon 113	0.81	0.15		ppbV	1	5/6/2015 11:47:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Heptane	1.8	0.15		ppbV	1	5/6/2015 11:47:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Hexane	1.3	0.15		ppbV	1	5/6/2015 11:47:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
m&p-Xylene	0.97	0.30		ppbV	1	5/6/2015 11:47:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/6/2015 11:47:00 PM
Methyl Ethyl Ketone	1.9	0.30		ppbV	1	5/6/2015 11:47:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/6/2015 11:47:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
o-Xylene	0.38	0.15		ppbV	1	5/6/2015 11:47:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Tetrachloroethylene	940	0.15	E	ppbV	1	5/12/2015 1:41:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Toluene	1.5	0.15		ppbV	1	5/6/2015 11:47:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Trichloroethene	0.96	0.15		ppbV	1	5/6/2015 11:47:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	5/6/2015 11:47:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	5/6/2015 11:47:00 PM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	4100	1400		ppbV	270	5/12/2015 5:00:00 PM
Surr: Bromofluorobenzene	134	70-130	S	%REC	270	5/12/2015 5:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-6
Lab Order:	C1505012	**Tag Number:**	130,67
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		5/5/2015
Lab Vacuum Out	-30			"Hg		5/5/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2,4-Trimethylbenzene	0.39	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,3,5-Trimethylbenzene	0.20	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/7/2015 12:25:00 AM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	5/7/2015 12:25:00 AM
4-ethyltoluene	0.12	0.15	J	ppbV	1	5/7/2015 12:25:00 AM
Acetone	2.4	0.30		ppbV	1	5/12/2015 2:16:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Benzene	0.34	0.15		ppbV	1	5/7/2015 12:25:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Bromoform	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Carbon disulfide	2.0	0.15		ppbV	1	5/12/2015 2:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Chloroform	0.26	0.15		ppbV	1	5/12/2015 2:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Ethyl acetate	0.54	0.25		ppbV	1	5/7/2015 12:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-6
Lab Order:	C1505012	**Tag Number:**	130,67
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.28	0.15		ppbV	1	5/7/2015 12:25:00 AM
Freon 11	0.99	0.15		ppbV	1	5/7/2015 12:25:00 AM
Freon 113	1.3	0.15		ppbV	1	5/7/2015 12:25:00 AM
Freon 114	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Freon 12	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Heptane	1.7	0.15		ppbV	1	5/7/2015 12:25:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Hexane	1.1	0.15		ppbV	1	5/7/2015 12:25:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	5/7/2015 12:25:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/7/2015 12:25:00 AM
Methyl Ethyl Ketone	0.35	0.30		ppbV	1	5/12/2015 2:16:00 PM
Methyl Isobutyl Ketone	0.80	0.30		ppbV	1	5/7/2015 12:25:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
o-Xylene	0.26	0.15		ppbV	1	5/7/2015 12:25:00 AM
Propylene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Styrene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Tetrachloroethylene	590	0.15	E	ppbV	1	5/12/2015 2:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Toluene	1.6	0.15		ppbV	1	5/7/2015 12:25:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Trichloroethene	0.88	0.15		ppbV	1	5/7/2015 12:25:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/7/2015 12:25:00 AM
Vinyl chloride	0.47	0.15		ppbV	1	5/7/2015 12:25:00 AM
Surr: Bromofluorobenzene	83.0	70-130		%REC	1	5/7/2015 12:25:00 AM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	2700	1400		ppbV	270	5/12/2015 5:38:00 PM
Surr: Bromofluorobenzene	136	70-130	S	%REC	270	5/12/2015 5:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-7
Lab Order:	C1505012	**Tag Number:**	1195,111
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-6			"Hg		5/5/2015
Lab Vacuum Out	-30			"Hg		5/5/2015
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2,4-Trimethylbenzene	0.20	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/7/2015 1:03:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Acetone	1.6	0.30		ppbV	1	5/12/2015 2:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Benzene	0.21	0.15		ppbV	1	5/7/2015 1:03:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Bromoform	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Carbon disulfide	0.96	0.15		ppbV	1	5/12/2015 2:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Chloroform	0.45	0.15		ppbV	1	5/12/2015 2:51:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/7/2015 1:03:00 AM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-7
Lab Order:	C1505012	**Tag Number:**	1195,111
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Freon 11	0.83	0.15		ppbV	1	5/7/2015 1:03:00 AM
Freon 113	1.2	0.15		ppbV	1	5/7/2015 1:03:00 AM
Freon 114	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Freon 12	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Heptane	0.58	0.15		ppbV	1	5/7/2015 1:03:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Hexane	0.41	0.15		ppbV	1	5/7/2015 1:03:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
m&p-Xylene	0.39	0.30		ppbV	1	5/7/2015 1:03:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/7/2015 1:03:00 AM
Methyl Ethyl Ketone	1.6	0.30		ppbV	1	5/7/2015 1:03:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/7/2015 1:03:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
o-Xylene	0.22	0.15		ppbV	1	5/7/2015 1:03:00 AM
Propylene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Styrene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Tetrachloroethylene	630	0.15	E	ppbV	1	5/12/2015 2:51:00 PM
Tetrahydrofuran	0.67	0.15		ppbV	1	5/7/2015 1:03:00 AM
Toluene	0.86	0.15		ppbV	1	5/7/2015 1:03:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Trichloroethene	0.32	0.15		ppbV	1	5/7/2015 1:03:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	5/7/2015 1:03:00 AM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	5/7/2015 1:03:00 AM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	2600	1400		ppbV	270	5/12/2015 6:16:00 PM
Surr: Bromofluorobenzene	140	70-130	S	%REC	270	5/12/2015 6:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP -5
Lab Order:	C1505012	**Tag Number:**	360,184
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	5/6/2015 11:47:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/6/2015 11:47:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	5/6/2015 11:47:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	5/6/2015 11:47:00 PM
1,1-Dichloroethene	0.48	0.59	J	ug/m3	1	5/6/2015 11:47:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/6/2015 11:47:00 PM
1,2,4-Trimethylbenzene	3.0	0.74		ug/m3	1	5/6/2015 11:47:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/6/2015 11:47:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/6/2015 11:47:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	5/6/2015 11:47:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	5/6/2015 11:47:00 PM
1,3,5-Trimethylbenzene	1.2	0.74		ug/m3	1	5/6/2015 11:47:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	5/6/2015 11:47:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/6/2015 11:47:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/6/2015 11:47:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/6/2015 11:47:00 PM
2,2,4-trimethylpentane	0.56	0.70	J	ug/m3	1	5/6/2015 11:47:00 PM
4-ethyltoluene	1.1	0.74		ug/m3	1	5/6/2015 11:47:00 PM
Acetone	4.7	0.71		ug/m3	1	5/12/2015 1:41:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	5/6/2015 11:47:00 PM
Benzene	2.2	0.48		ug/m3	1	5/6/2015 11:47:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	5/6/2015 11:47:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/6/2015 11:47:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/6/2015 11:47:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	5/6/2015 11:47:00 PM
Carbon disulfide	16	0.47		ug/m3	1	5/12/2015 1:41:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	5/6/2015 11:47:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	5/6/2015 11:47:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/6/2015 11:47:00 PM
Chloroform	1.6	0.73		ug/m3	1	5/12/2015 1:41:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/6/2015 11:47:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/6/2015 11:47:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/6/2015 11:47:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/6/2015 11:47:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/6/2015 11:47:00 PM
Ethyl acetate	< 0.90	0.90		ug/m3	1	5/6/2015 11:47:00 PM
Ethylbenzene	1.6	0.65		ug/m3	1	5/6/2015 11:47:00 PM
Freon 11	3.7	0.84		ug/m3	1	5/6/2015 11:47:00 PM
Freon 113	6.2	1.1		ug/m3	1	5/6/2015 11:47:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	5/6/2015 11:47:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP -5
Lab Order:	C1505012	**Tag Number:**	360,184
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	5/6/2015 11:47:00 PM
Heptane	7.5	0.61		ug/m3	1	5/6/2015 11:47:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/6/2015 11:47:00 PM
Hexane	4.6	0.53		ug/m3	1	5/6/2015 11:47:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/6/2015 11:47:00 PM
m&p-Xylene	4.2	1.3		ug/m3	1	5/6/2015 11:47:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/6/2015 11:47:00 PM
Methyl Ethyl Ketone	5.7	0.88		ug/m3	1	5/6/2015 11:47:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/6/2015 11:47:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	5/6/2015 11:47:00 PM
Methylene chloride	< 0.52	0.52		ug/m3	1	5/6/2015 11:47:00 PM
o-Xylene	1.6	0.65		ug/m3	1	5/6/2015 11:47:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/6/2015 11:47:00 PM
Styrene	< 0.64	0.64		ug/m3	1	5/6/2015 11:47:00 PM
Tetrachloroethylene	6400	1.0	E	ug/m3	1	5/12/2015 1:41:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	5/6/2015 11:47:00 PM
Toluene	5.7	0.57		ug/m3	1	5/6/2015 11:47:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/6/2015 11:47:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/6/2015 11:47:00 PM
Trichloroethene	5.2	0.81		ug/m3	1	5/6/2015 11:47:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	5/6/2015 11:47:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	5/6/2015 11:47:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	5/6/2015 11:47:00 PM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	28000	9500		ug/m3	270	5/12/2015 5:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-6
Lab Order:	C1505012	**Tag Number:**	130,67
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	5/7/2015 12:25:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/7/2015 12:25:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	5/7/2015 12:25:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	5/7/2015 12:25:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 12:25:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/7/2015 12:25:00 AM
1,2,4-Trimethylbenzene	1.9	0.74		ug/m3	1	5/7/2015 12:25:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/7/2015 12:25:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 12:25:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	5/7/2015 12:25:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	5/7/2015 12:25:00 AM
1,3,5-Trimethylbenzene	0.98	0.74		ug/m3	1	5/7/2015 12:25:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	5/7/2015 12:25:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 12:25:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 12:25:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/7/2015 12:25:00 AM
2,2,4-trimethylpentane	1.1	0.70		ug/m3	1	5/7/2015 12:25:00 AM
4-ethyltoluene	0.59	0.74	J	ug/m3	1	5/7/2015 12:25:00 AM
Acetone	5.8	0.71		ug/m3	1	5/12/2015 2:16:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	5/7/2015 12:25:00 AM
Benzene	1.1	0.48		ug/m3	1	5/7/2015 12:25:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	5/7/2015 12:25:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/7/2015 12:25:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	5/7/2015 12:25:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	5/7/2015 12:25:00 AM
Carbon disulfide	6.1	0.47		ug/m3	1	5/12/2015 2:16:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	5/7/2015 12:25:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	5/7/2015 12:25:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	5/7/2015 12:25:00 AM
Chloroform	1.3	0.73		ug/m3	1	5/12/2015 2:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/7/2015 12:25:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 12:25:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/7/2015 12:25:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/7/2015 12:25:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/7/2015 12:25:00 AM
Ethyl acetate	1.9	0.90		ug/m3	1	5/7/2015 12:25:00 AM
Ethylbenzene	1.2	0.65		ug/m3	1	5/7/2015 12:25:00 AM
Freon 11	5.6	0.84		ug/m3	1	5/7/2015 12:25:00 AM
Freon 113	9.7	1.1		ug/m3	1	5/7/2015 12:25:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	5/7/2015 12:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-6
Lab Order:	C1505012	**Tag Number:**	130,67
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	5/7/2015 12:25:00 AM
Heptane	6.8	0.61		ug/m3	1	5/7/2015 12:25:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/7/2015 12:25:00 AM
Hexane	3.7	0.53		ug/m3	1	5/7/2015 12:25:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/7/2015 12:25:00 AM
m&p-Xylene	3.3	1.3		ug/m3	1	5/7/2015 12:25:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/7/2015 12:25:00 AM
Methyl Ethyl Ketone	1.0	0.88		ug/m3	1	5/12/2015 2:16:00 PM
Methyl Isobutyl Ketone	3.3	1.2		ug/m3	1	5/7/2015 12:25:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	5/7/2015 12:25:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	5/7/2015 12:25:00 AM
o-Xylene	1.1	0.65		ug/m3	1	5/7/2015 12:25:00 AM
Propylene	< 0.26	0.26		ug/m3	1	5/7/2015 12:25:00 AM
Styrene	< 0.64	0.64		ug/m3	1	5/7/2015 12:25:00 AM
Tetrachloroethylene	4000	1.0	E	ug/m3	1	5/12/2015 2:16:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	5/7/2015 12:25:00 AM
Toluene	6.1	0.57		ug/m3	1	5/7/2015 12:25:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 12:25:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/7/2015 12:25:00 AM
Trichloroethene	4.7	0.81		ug/m3	1	5/7/2015 12:25:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	5/7/2015 12:25:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	5/7/2015 12:25:00 AM
Vinyl chloride	1.2	0.38		ug/m3	1	5/7/2015 12:25:00 AM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	18000	9500		ug/m3	270	5/12/2015 5:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-7
Lab Order:	C1505012	**Tag Number:**	1195,111
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	5/7/2015 1:03:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/7/2015 1:03:00 AM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	5/7/2015 1:03:00 AM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	5/7/2015 1:03:00 AM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 1:03:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/7/2015 1:03:00 AM
1,2,4-Trimethylbenzene	0.98	0.74		ug/m3	1	5/7/2015 1:03:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/7/2015 1:03:00 AM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 1:03:00 AM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	5/7/2015 1:03:00 AM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	5/7/2015 1:03:00 AM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	5/7/2015 1:03:00 AM
1,3-butadiene	< 0.33	0.33		ug/m3	1	5/7/2015 1:03:00 AM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 1:03:00 AM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	5/7/2015 1:03:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/7/2015 1:03:00 AM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	5/7/2015 1:03:00 AM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	5/7/2015 1:03:00 AM
Acetone	3.7	0.71		ug/m3	1	5/12/2015 2:51:00 PM
Allyl chloride	< 0.47	0.47		ug/m3	1	5/7/2015 1:03:00 AM
Benzene	0.67	0.48		ug/m3	1	5/7/2015 1:03:00 AM
Benzyl chloride	< 0.86	0.86		ug/m3	1	5/7/2015 1:03:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/7/2015 1:03:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	5/7/2015 1:03:00 AM
Bromomethane	< 0.58	0.58		ug/m3	1	5/7/2015 1:03:00 AM
Carbon disulfide	3.0	0.47		ug/m3	1	5/12/2015 2:51:00 PM
Carbon tetrachloride	< 0.94	0.94		ug/m3	1	5/7/2015 1:03:00 AM
Chlorobenzene	< 0.69	0.69		ug/m3	1	5/7/2015 1:03:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	5/7/2015 1:03:00 AM
Chloroform	2.2	0.73		ug/m3	1	5/12/2015 2:51:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/7/2015 1:03:00 AM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 1:03:00 AM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/7/2015 1:03:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/7/2015 1:03:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/7/2015 1:03:00 AM
Ethyl acetate	< 0.90	0.90		ug/m3	1	5/7/2015 1:03:00 AM
Ethylbenzene	0.65	0.65		ug/m3	1	5/7/2015 1:03:00 AM
Freon 11	4.7	0.84		ug/m3	1	5/7/2015 1:03:00 AM
Freon 113	9.2	1.1		ug/m3	1	5/7/2015 1:03:00 AM
Freon 114	< 1.0	1.0		ug/m3	1	5/7/2015 1:03:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *13-May-15*

CLIENT:	Piedmont Industrial Services, Inc	**Client Sample ID:**	VP-7
Lab Order:	C1505012	**Tag Number:**	1195,111
Project:	955 Brookstown	**Collection Date:**	5/4/2015
Lab ID:	C1505012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.74	0.74		ug/m3	1	5/7/2015 1:03:00 AM
Heptane	2.4	0.61		ug/m3	1	5/7/2015 1:03:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/7/2015 1:03:00 AM
Hexane	1.4	0.53		ug/m3	1	5/7/2015 1:03:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/7/2015 1:03:00 AM
m&p-Xylene	1.7	1.3		ug/m3	1	5/7/2015 1:03:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/7/2015 1:03:00 AM
Methyl Ethyl Ketone	4.7	0.88		ug/m3	1	5/7/2015 1:03:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/7/2015 1:03:00 AM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	5/7/2015 1:03:00 AM
Methylene chloride	< 0.52	0.52		ug/m3	1	5/7/2015 1:03:00 AM
o-Xylene	0.96	0.65		ug/m3	1	5/7/2015 1:03:00 AM
Propylene	< 0.26	0.26		ug/m3	1	5/7/2015 1:03:00 AM
Styrene	< 0.64	0.64		ug/m3	1	5/7/2015 1:03:00 AM
Tetrachloroethylene	4300	1.0	E	ug/m3	1	5/12/2015 2:51:00 PM
Tetrahydrofuran	2.0	0.44		ug/m3	1	5/7/2015 1:03:00 AM
Toluene	3.2	0.57		ug/m3	1	5/7/2015 1:03:00 AM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	5/7/2015 1:03:00 AM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	5/7/2015 1:03:00 AM
Trichloroethene	1.7	0.81		ug/m3	1	5/7/2015 1:03:00 AM
Vinyl acetate	< 0.53	0.53		ug/m3	1	5/7/2015 1:03:00 AM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	5/7/2015 1:03:00 AM
Vinyl chloride	< 0.38	0.38		ug/m3	1	5/7/2015 1:03:00 AM
5PPB BY METHOD TO15		**TO-15**				Analyst: **WD**
Tetrachloroethylene	18000	9500		ug/m3	270	5/12/2015 6:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Appendix F

ECS CAROLINAS, LLP
Geotechnical • Construction Materials • Environmental

March 23, 2007

Winston-Salem Alliance
c/o Richard Redding
Meridian Realty Group
318 Indera Mills Court
Winston-Salem, North Carolina 27101

Reference: Report of Environmental Services
955 Brookstown Avenue and 967 Burke Street
Winston-Salem, North Carolina
ECS Project 09:13937

Dear Mr. Redding:

As authorized by your acceptance of our Proposal No. 09-11289-P dated March 1, 2007, ECS Carolinas LLP, (ECS) has completed the Report of Environmental Services for the above referenced site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

We appreciate the opportunity to provide our services to you. If there are questions regarding this report, or a need for further information, please contact us at (336) 856-7150.

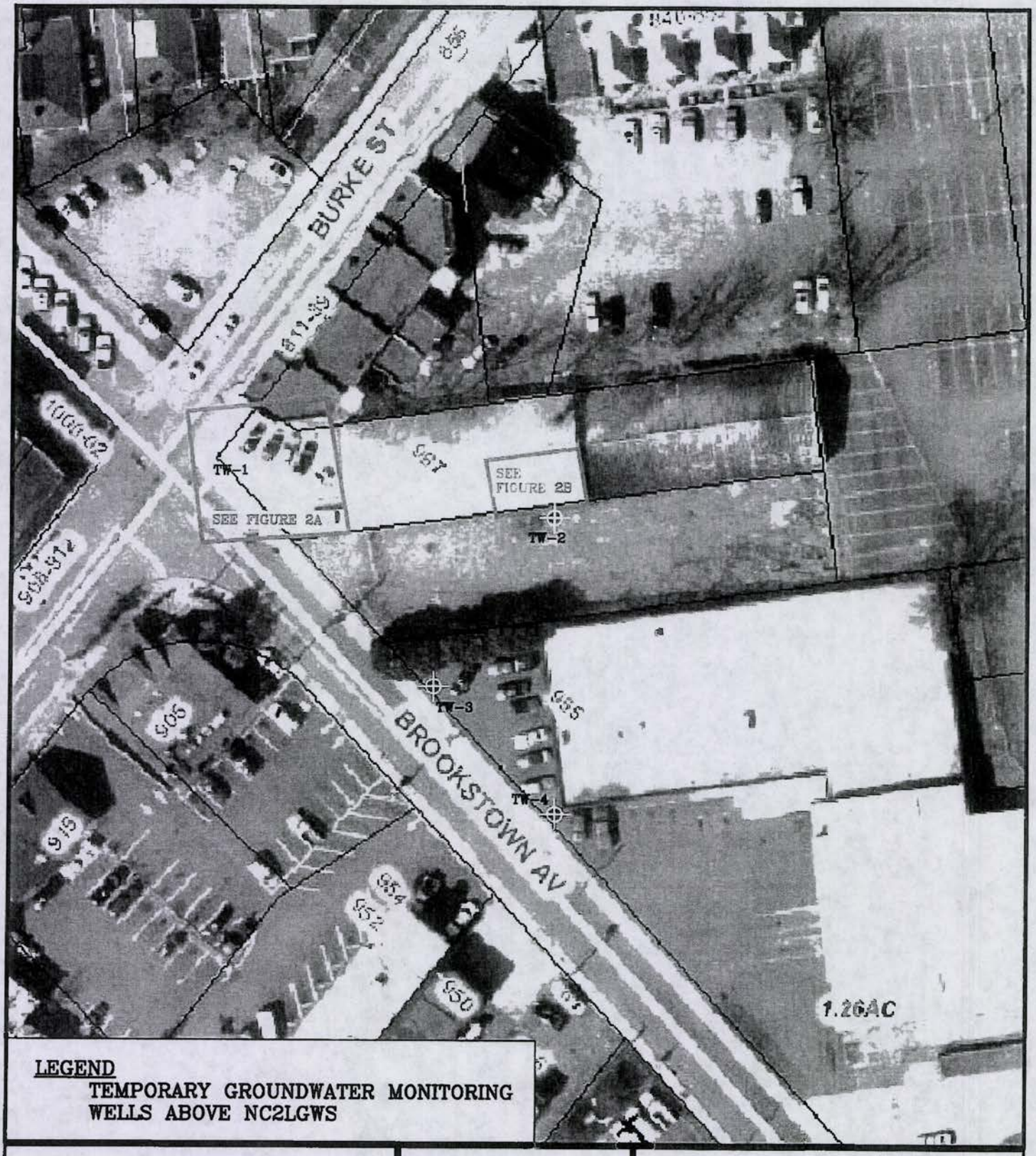
Respectfully submitted,
ECS Carolinas, LLP

Randy H. Cavallier
Project Geologist

James D. Hoskins, III, P.E.
Chief Engineer
Registered North Carolina No. 18493

NORTH CAROLINA PROFESSIONAL SEAL 018493 ENGINEER JAMES D. HOSKINS, III

4811 Koger Boulevard • Greensboro, NC 27407 • (336) 856-7150 • Fax (336) 856-7160



LEGEND

TEMPORARY GROUNDWATER MONITORING WELLS ABOVE NC2LGWS

SCALE (IN FEET)

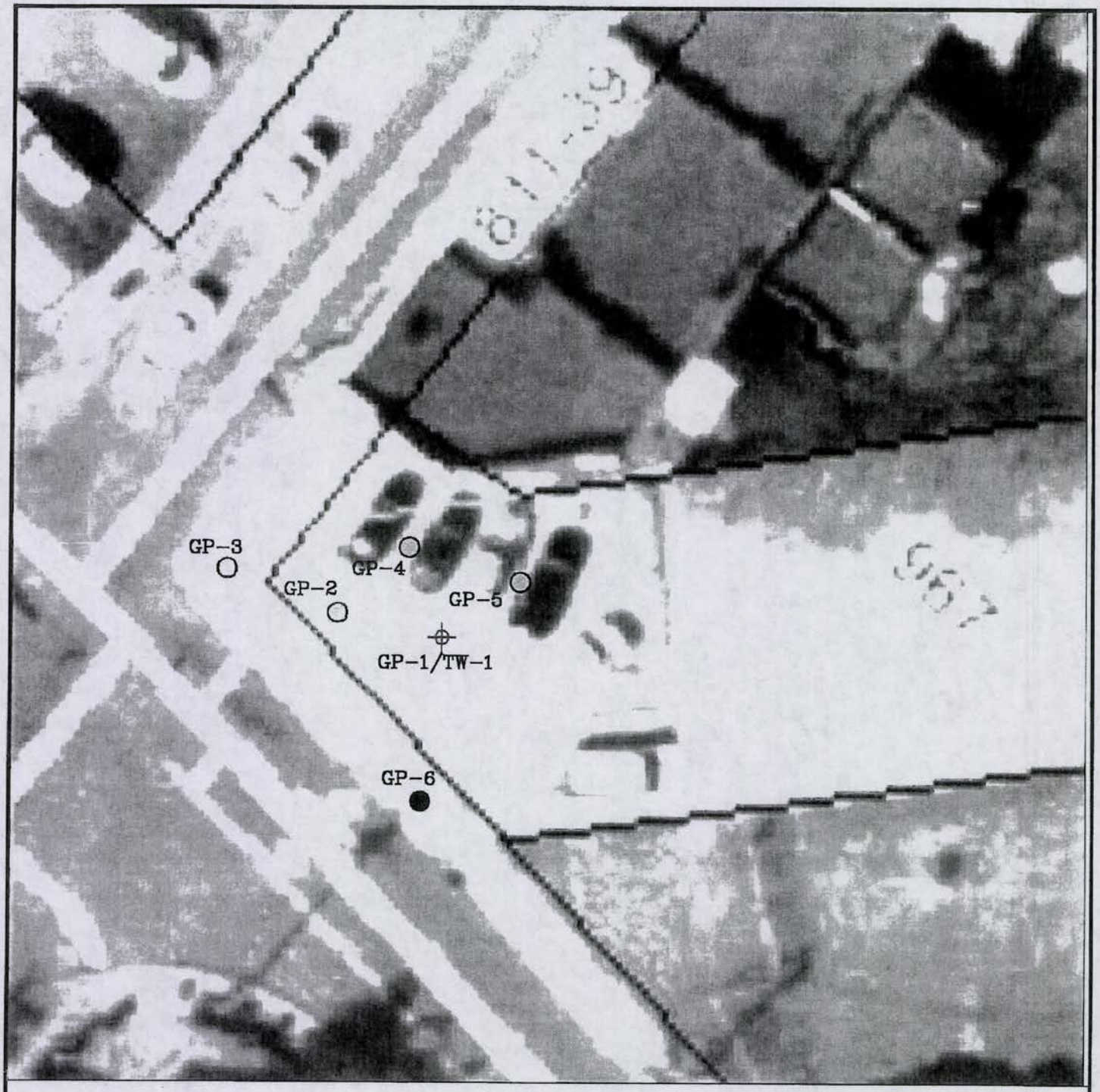
60 0 30 60

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 2
SITE/TEMPORARY MONITORING WELL LOCATION MAP
955 BROOKSTOWN AVENUE & 967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937



LEGEND

- ● SOIL BORING BELOW NC ACTION LEVEL
- ○ SOIL BORING ABOVE NC ACTION LEVEL
- ⊕ TEMPORARY GROUNDWATER MONITORING WELL ABOVE NC2LGWQS BY FACTOR OF 10

SCALE (IN FEET)

10 20

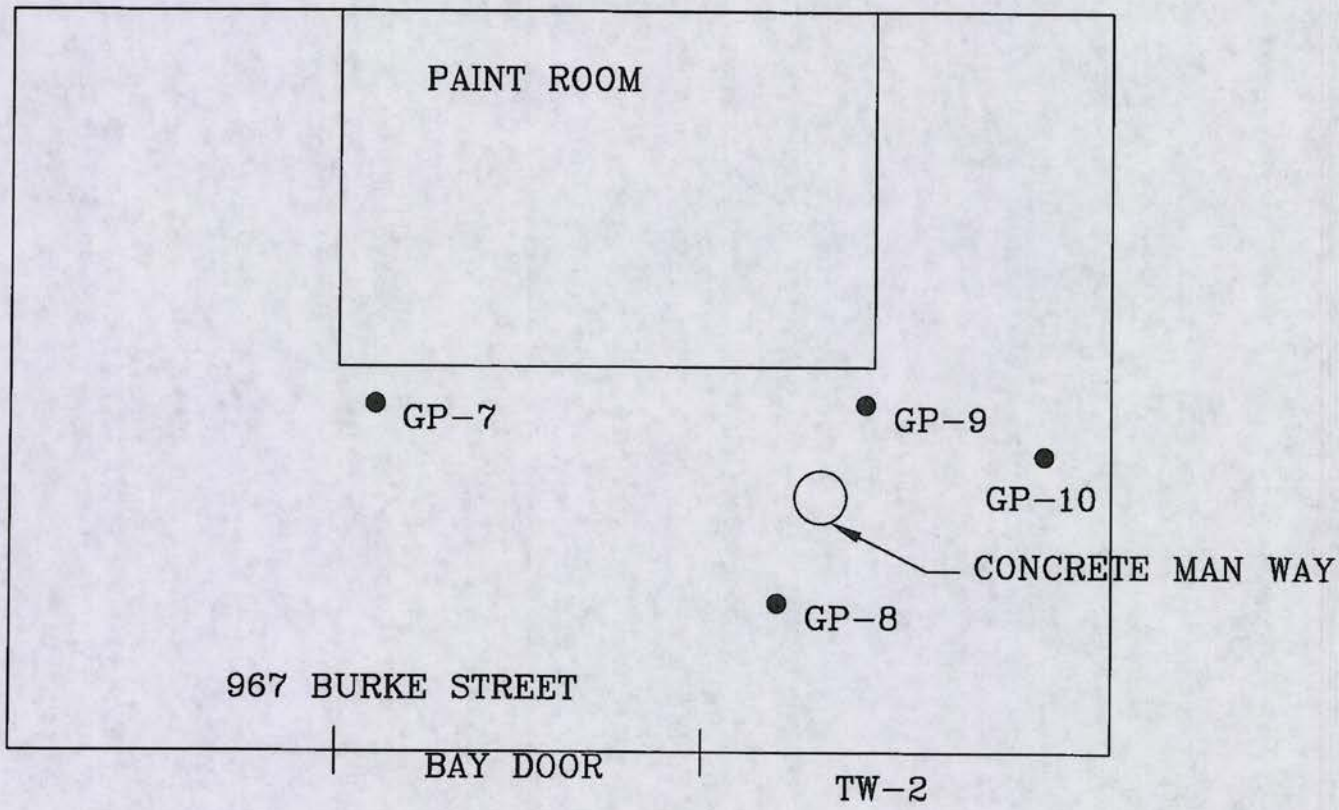
20 0

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 2A
SOIL SAMPLE LOCATION MAP
955 BROOKSTOWN AVENUE & 967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937



LEGEND

TEMPORARY MONITORING WELL LOCATION ABOVE NC2LGWQS

● SOIL SAMPLE LOCATION BELOW NC ACTION LEVEL

SCALE (IN FEET)

5 10

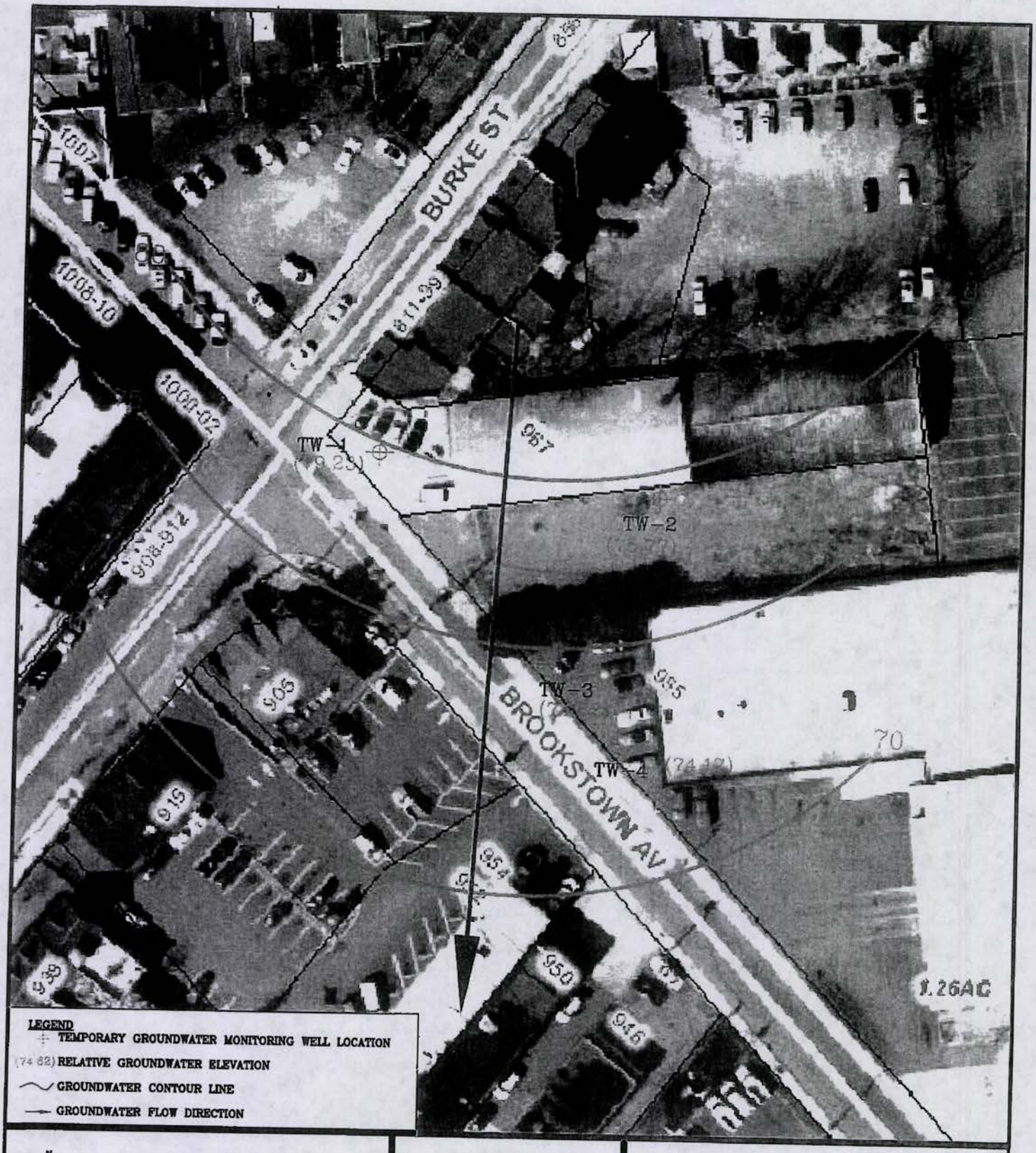
10 0

REFERENCE:
DRAWING BASED ON FIELD NOTES
BY ECS PERSONNEL

ECS LLP
CAROLINAS

FIGURE 2B
SOIL SAMPLE LOCATION MAP
955 BROOKSTOWN AVENUE & 967
BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937



SCALE (IN FEET)

60 0 30 60

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
955 BROOKSTOWN AVENUE &
967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937

TABLES

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

Project Name: 955 Brookstown Avenue/967 Burke Street Phase II ESA
ECS Project: 09-13937

Analytical Method			8015/5035	8015/3550	9071 w/ Silica Gel
Contaminant of Concern			Gasoline Range TPH	Diesel Range TPH	Oil & Grease
Sample ID	Date Collected	Approximate Sample Depth (ft. bgs)			
GP1-15	03/08/2007	15	**353**	**143**	BQL
GP1-30	03/08/2007	30	**3,780**	**1,590**	BQL
GP2-15	03/08/2007	15	**5,240**	**2,170**	BQL
GP3-15	03/08/2007	15	**3,610**	**1,510**	BQL
GP4-15	03/08/2007	15	**392**	**773**	BQL
GP5-15	03/08/2007	15	**704**	**983**	BQL
GP6-15	03/08/2007	15	BQL	BQL	BQL
GP7-15	03/08/2007	15	BQL	BQL	BQL
GP8-15	03/08/2007	15	BQL	BQL	BQL
GP9-10	03/08/2007	10	BQL	BQL	BQL
GP10-5	03/08/2007	5	BQL	BQL	BQL
North Carolina Action Level (mg/kg)			10	10	250

[ ] = Above North Carolina Action Level
mg/kg = Milligrams per Kilograms (ppm)
ppm = parts per million
BQL = Below Quantitation Limit
bgs = Below the ground surface

TABLE 2
MONITORING WELL CONSTRUCTION DATA
955 Brookstown Avenue/967 Burke Street
Winston Salem, North Carolina
ECS Project 09-13937

Well ID	Date Constructed	Casing Interval	Screen Interval	Sand Pack Interval	Seal Interval	Grout Interval	Static Water Level	TOC Elevation	Relative Groundwater Elevation
TW-1	03/08/2007	0-23.0	23.0-38.0	20.0-38.0	21.0-23.0	NA	31.22	110.88	79.23
TW-2	03/08/2007	0-4.0	4.0-9.0	2.0-9.0	1.0-2.0	NA	30.51	106.28	75.77
TW-3	03/08/2007	0-20.0	20.0-35.0	17.0-35.0	15.0-17.0	NA	27.87	102.49	74.62
TW-4	03/08/2007	0-23.0	23.0-38.0	20.0-38.0	21.0-23.0	NA	25.36	99.53	74.17

Notes:
All Measurements are in feet
TOC = Top of Casing elevation
ND = Not Determined
Static Water Level Measured from TOC on March 9, 2007

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

Project Name: 955 Brookstown Avenue/967 Burke Street Phase II ESA
ECS Project: 09-13937

Analytical Method			602	602	602	602	602	602	625BN	3030C	601/602/625BN
Contaminant of Concern			Benzene	Isopropyl ether	Ethylbenzene	Toluene	Total Xylenes	Tetrachloroethene (PCE)	Naphthalene	Lead	All Other Targeted Compounds
Sample ID	Date Collected	Depth to Groundwater (ft.-bgs)									
TW-1	03/09/2007	31.22	**144**	12.2	122	56.3	503	**2.35**	18.8	**31.4**	BQL
TW-2	03/09/2007	35.51	BQL	BQL	BQL	BQL	1.95	**39.5**	BQL	**32.9**	BQL
TW-3	03/09/2007	27.87	BQL	BQL	BQL	BQL	BQL	**128**	BQL	11.6	BQL
TW-4	03/09/2007	26.36	BQL	BQL	BQL	BQL	BQL	**49.9**	BQL	5.85	BQL
NC2LGWQS (µg/L)			1	70	550	1,000	530	0.7	21	15	NA
Gross Contaminant Levels (µg/L)			5,000	70,000	84,500	257,500	87,500	700	15,500	15,000	NA

= Above NC2LGWQS
= Exceeds NC2LGWQS by a Factor of 10

ppb = parts per billion = µg/L
µg/L = micrograms per liter
BQL = Below Quantitation Limit
ft. bgs = feet below ground surface
NC2LGWQS = North Carolina 2L Groundwater Quality Standard

ECS CAROLINAS, LLP
Geotechnical • Construction Materials • Environmental

September 28, 2008

Mr. Kerry Avant
Brookstown Holdings, LLC
1645 Westbrook Plaza Drive
Winston-Salem, North Carolina 27103

Reference: Phase I Limited Site Assessment Report
955 Brookstown Avenue and 967 Burke Street
Winston-Salem, North Carolina
ECS Project 09.13937B

Dear Mr. Avant:

As authorized by your acceptance of our Proposal 09.13048-P dated February 20, 2008, ECS Carolinas, LLP (ECS), has completed the Phase I Limited Site Assessment (LSA) for the above referenced site. Included in this report is a description of the field activities, the results obtained and our conclusions and recommendations.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us at (336) 856-7150.

Sincerely,

ECS CAROLINAS, LLP

Randy H. Cavallier
Project Geologist

James D. Hoskins, III, P.E.
Chief Engineer
Registered North Carolina No. 18493

NORTH CAROLINA PROFESSIONAL SEAL 18493 9-27-08 ENGINEER JAMES D. HOSKINS, III

4811 Koger Boulevard • Greensboro, NC 27407 • (336) 856-7150 • Fax (336) 856-7160

1.0 SITE HISTORY

The sites are located at 955 Brookstown Avenue (Graybar Property) and 967 Burke Street (Former Fritts Motor Property) in Winston-Salem, North Carolina (Figures 1 and 2). The 967 Burke Street site is developed with a former automotive repair facility (now an HVAC repair business), which contained or contains underground storage tanks (USTs) as identified by Sanborn Fire Insurance Maps. The 955 Brookstown Avenue site is occupied by an electrical supply company. It is our understanding that a dry cleaning facility and a service station were present across Brookstown Avenue to the west of the sites. ECS previously completed a *Report of Environmental Services* (ECS Project 09:13937, dated March 23, 2007) and an additional *Report of Environmental Services* (ECS Project 09:13937A, dated January 7, 2008) which included a geophysical survey. ECS personnel were on-site during a geophysical survey at the site. The geophysical survey was conducted across the entire site, including the interior of the buildings. The geophysical survey did not identify anomalies at the property or potential USTs.

Based on the laboratory data, the soil and groundwater at the site has been impacted with petroleum and/or chlorinated solvents. It is our understanding that a Brownfields Agreement is being pursued for the site. The North Carolina Department of Environment and Natural Resources (NCDENR), Brownfields Program has required that additional assessment be completed at the site in regards to obtaining a Brownfields Agreement. This proposal addresses the UST release only and the scope of work will be completed in an effort to obtain a Notice of No Further Action (NFA). Depending upon the results of this assessment, additional assessment or remediation may be required.

ECS was contracted by Mr. Kerry Avant with Brookstown Holdings, LLC to provide a Phase I LSA for the site. Based on petroleum constituents being previously detected in the groundwater, a Notice of Residual Petroleum (NORP) will likely be required. Project information is based on a conversation between Mr. Avant and Mr. Jason Ricks of ECS and the previously cited reports.

A. Property Owner

Brookstown Holdings, LLC
1645 Westbrook Plaza Drive
Winston-Salem, North Carolina 27103

B. Operator of USTs

Unkown

C. Property Occupant

Kozy Heating & Cooling, Inc.
967 Brookstown Avenue
Winston-Salem, North Carolina
(336) 725-9937

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APPENDIX

Boring Logs
Temporary Monitoring Well Construction Diagrams
Returned Water Supply Well Questionnaires
Copy of Certified Mail Receipts
Copy of Domestic Return Receipts
Laboratory Data Sheets and Chain of Custody Records

D. Contacts

Primary Contact:	Mr Kerry Avant Brookstown Holdings, LLC 1645 Westbrook Plaza Drive Winston-Salem, North Carolina 2710
Closure Contractor:	Not Applicable
Primary Consultant:	ECS Carolinas, LLP 4811 Koger Boulevard Greensboro, North Carolina 27407 (336) 856-7150
Laboratory:	Research & Analytical Laboratories, Inc. 106 Short Street Kernersville, North Carolina 27284 (336) 996-2841 Laboratory Certification # 34

E. Site History and Characterization

1.0 UST Owner and Operator Information

The current owner of the site is Brookstown Holdings, LLC. It has not been determined if there was a UST system present on the site, and if so, it has been not been determined who the owner and operator of the UST system.

2.0 UST Information

No information, beside the aforementioned Sanborn Fire Insurance Map, is available for the UST(s) present or previously located on the site. The geophysical survey did not identify anomalies at the property or potential USTs.

3.0 Description of Release

Based on the laboratory data, the soil and groundwater at the site has been impacted with petroleum and/or chlorinated solvents.

4.0 Site Characteristics

A block building previously used as a HVAC repair business is located at 967 Burke Street. A building previously used as an electrical supply company is located at 955 Brookstown Avenue. The site currently receives municipal water and sanitary sewer services from the City of Winston Salem.

2.0 RISK CHARACTERIZATION

The answers in the following questionnaire will help with the assignment of the risk classification for the site.

Limited Site Assessment Risk Classification and Land Use Form

Part I - Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the discharge or release contaminated any water supply well including any used for non-drinking purposes? **UNKNOWN**

2. Is a water supply well used for drinking water located within 1,000 feet of the source area of the discharge or release? **NO**

3. Is a water supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling, filling swimming pools) located within 250 feet of the source area of the release or discharge? **NO**

4. Does the groundwater within 500 feet of the source area of the discharge or release have the potential for future use in that there is no other source of water supply other than the groundwater? **NO**

5. Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety, or the environment? **NO**

6. Are there any other factors that would cause the discharge or release to pose an imminent danger to public health, public safety, or the environment? **NO**

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the discharge or release? **NO**

8. Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)? **NO**

9. Is the discharge or release located in the Coastal Plain Physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? **NO**

10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels established by the Department? **NO**

4. Do children visit the property? **YES**

   At the present time, children do not have the opportunity to visit the property; however, the commercial redevelopment of the property will present the opportunity for children to visit the property.

5. Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel, or both)? **NO**

   Restricted access is not deemed necessary.

6. Does pavement, buildings, or other structures cap the contaminated soil? **YES**

   If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?

   It is our understanding that after redevelopment the soil will be capped with an asphalt or Portland concrete parking lot and/or a commercial building.

7. What is the zoning status of the property?

   The property is zoned Pedestrian Business (PB).

8. Is the use of the property likely to change in the next 20 years? **YES**

   It is our understanding that the property is scheduled for commercial redevelopment.

Property Surrounding Source Area of Discharge or Release

9. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)?

   The nearest occupied residence is an apartment building located 30 feet northwest at 843 Burke Street (Figure 3).

10. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly?

    The nearest place of public assembly is the Forsyth County Public library, Central Branch located approximately 1,300 feet northeast of the source area at the intersection of W. Fifth and N. Spring Streets (Figure 3).

11. What is the zoning status of properties in the surrounding area?

    Properties in the vicinity of the site are zoned Pedestrian Business.

12. Briefly characterize the use and activities of the land in the surrounding area.

    The vicinity of the site is comprised of commercial properties. Residential properties are located north of the site (Figure 3).

3.0 RECEPTOR INFORMATION

3.1 Water Supply Wells

ECS personnel conducted a field survey of potential receptors (e.g., water supply wells, monitoring wells, surface water and subsurface utilities) in the vicinity of the site. As part of the field survey, an area reconnaissance of all properties publicly accessible by vehicle was conducted. The area reconnaissance did not positively visually identify water supply wells within a 1,500-foot radius of the site. As part of the receptor survey, ECS sent 37 water supply questionnaires via certified mail to 63 property owners within a 500-foot radius of the source area and to the property owner of the site (Table 1 and Figure 3). ECS received 36 return questionnaires. Five mailings with a total of 13 questionnaires were returned unopened. The 36 completed questionnaires did not indicate the presence of water supply wells within a 500-foot radius of the source area. Copies of the returned *Water Supply Well Questionnaires, Certified Mail Receipts* and/or *Domestic Return Receipts* are included in the Appendix.

3.2 Public Water Supplies

The City of Winston Salem provides water to the site and the surrounding area.

3.3 Surface Water

The nearest surface water feature to the site is Peters Creek located approximately 1,800 feet southwest of the source area (Figure 1).

3.4 Well-head Protected Areas

There is no designated wellhead protection area as defined by 42 USC 300h-7(e) located within 1,500 feet of the site.

3.5 Subsurface Structures

There are no known subsurface structures at the site.

3.6 Land Use

Currently, the site is unoccupied; however, it is our understanding that the site is scheduled for redevelopment for commercial use.

3.7 Property Owners and Occupants

The names and addresses of the property owner of the site and adjacent properties are included on Table 1. A portion of a Forsyth County tax map with adjacent property locations is presented on Figure 3.

4.0 SITE GEOLOGY AND HYDROGEOLOGY

As determined from the USGS Topographic Map, the elevation at the site is approximately 820 feet above mean sea level (Figure 1). Surface runoff at the site appears to flow to the southwest.

The site is located in the Carolina Slate Belt of the Piedmont Physiographic Province. The soil encountered in this area is the residual product of in-place chemical weathering of rock presently underlying the site. In general, shallow unconfined groundwater movement within the overlying soil is controlled largely by topographic gradients. Recharge occurs primarily by infiltration along higher elevations and typically discharges into streams or other surface water bodies. The elevation of the shallow water table is transient and can vary with seasonal fluctuations in precipitation. Movement in this water table is generally from higher to lower elevations. As such, shallow groundwater would be expected to flow generally toward the southwest.

5.0 FIELD ACTIVITIES

The Phase I LSA consisted of collecting soil and groundwater samples using a track mounted Geoprobe® drill rig. The Geoprobe® is capable of driving various forms of groundwater and soil sampling probes into the ground to depths equivalent of auger refusal. The Geoprobe® subcontractor used for this project was Subsurface Environmental Investigations, Inc. (SEI). The field activities were performed on August 28 and August 29, 2008, and observed by an ECS professional.

5.1 LSA Soil Sampling

ECS observed the drilling of one soil boring at the site in the vicinity of our former boring GP-2 (TW-1A, Figure 4) to a depth of 40 feet bgs. Prior to initiating the boring, the Geoprobe® rig and associated downhole equipment were decontaminated with the use of a high-pressure steam cleaner.

The soil from the boring was screened using the probe of a Foxboro Model 1000B toxic vapor analyzer (TVA) which is a flame ionization detector (FID). The soil from the boring was placed in resealable plastic bags. Each plastic bag was placed in a warm location for approximately ten minutes to allow the headspace in the bag to equilibrate with the soil. The probe of the FID was then inserted into the bag, and the bag was immediately resealed. Soil samples from the 10, 20 and 30 foot intervals were collected for laboratory analysis. Boring logs, which include FID readings, were prepared for each soil boring and are included in the Appendix.

The soil samples were placed in laboratory prepared containers by an ECS professional wearing a new pair of nitrile gloves. The sample containers were labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were transported to Research & Analytical Laboratories, Inc. (R&A) in Kernersville, North Carolina for chemical analysis. Chain of Custody Records were maintained and are included in the Appendix.

5.2 Brownfields Soil Sampling

ECS observed the drilling of one soil boring at the site in the vicinity of the proposed office building (TW-2A, Figure 4) to a depth of 36 feet bgs. The soil boring was drilled to satisfy requirements by the NCDENR, Brownfields Program. Prior to initiating the soil boring, the Geoprobe® rig and associated downhole equipment were decontaminated with the use of a high-pressure steam cleaner.

The soil from the boring was screened using the FID. The soil from the borings was placed in resealable plastic bags. Each plastic bag was placed in a warm location for approximately ten minutes to allow the headspace in the bag to equilibrate with the soil. The probe of the FID was then inserted into the bag, and the bag was immediately resealed using finger pressure. Soil samples from the 5 and 10 foot intervals were collected for laboratory analysis. Boring logs, which include FID readings, were prepared for each soil boring and are included in the Appendix.

The soil samples were placed in laboratory prepared containers by an ECS professional wearing a new pair of nitrile gloves. The sample containers were labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were transported to R&A for chemical analysis. Chain of Custody Records were maintained and are included in the Appendix.

5.3 Temporary Monitoring Well Construction

Soil borings TW-1A and TW-2A were converted to temporary groundwater monitoring wells using the Geoprobe® rig (Figure 5). The wells were constructed with a 1-inch I.D. schedule 40 PVC flushed-threaded inner casing and screen. A 20-foot length of slotted well screen with machined 0.010-inch slot widths and threaded bottom plug was installed at the bottom of each well. A solid section of PVC casing was placed above the screened interval and extended to a point approximately 2 feet above the ground surface. The annular space around each well was filled with washed fine filter sand to approximately 2 feet above the top of the screen. A minimum 1-foot thick seal of bentonite pellets was placed immediately above the sand pack. The top of each well casing was equipped with a lockable, water-tight well plug. A *Temporary Monitoring Well Construction Diagram* was prepared for each well and is included in the Appendix.

5.4 Groundwater Sampling

Groundwater monitoring wells TW-1A and TW-2A were sampled by ECS personnel on August 29, 2008. Prior to sampling, the wells were developed/purged using a new length of disposable polyethylene tubing connected to a peristaltic pump. The wells were developed/purged by evacuating a minimum of five well volumes using the peristaltic pump and tubing. The wells were developed/purged to remove sand, silt and other fine sediments which may have entered the wells during construction and to promote communication between the surrounding formation and the sand pack surrounding the wells' screened interval. After the purging was completed, a groundwater sample was collected from each well using the peristaltic pump and tubing.

The groundwater samples were placed in laboratory prepared containers by an ECS professional wearing a new pair of nitrile gloves. The sample containers were labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were transported to R&A for chemical analysis. Chain of Custody Records were maintained and are included in the Appendix.

6.0 LABORATORY ANALYTICAL RESULTS

6.1 Soil Analytical Results

The soil samples collected from soil boring TW-1A (TW-1-10, TW-1-20 and TW-1-30) were analyzed by R&A for volatile organic compounds (VOCs) using EPA Method 8260/5035, semi-volatile organic compounds (SVOCs) using EPA Method 8270BNA (base neutrals and acid extractables) and volatile and extractable petroleum hydrocarbons (VPH and EPH, respectively) using the Massachusetts Department of Environmental Protection (MADEP) Methods.

Laboratory analysis of each soil sample detected targeted compounds above the NCDENR Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs). Laboratory analysis of each soil sample detected VPH and EPH above their NCDENR Residential Soil Cleanup Levels. A summary of the laboratory analytical results is included in Table 2. The laboratory data sheets are included in the Appendix.

The soil samples collected from soil boring TW-2A (TW-2-5 and TW-2-10) were analyzed by R&A for VOCs using EPA Method 8260 and SVOCs using EPA Method 8270BNA. Laboratory analysis of each soil samples did not detected targeted compounds above the laboratory quantitation limits. A summary of the laboratory analytical results is included in Table 2. The laboratory data sheets are included in the Appendix.

6.2 Groundwater Analytical Results

The groundwater sample collected from TW-1A was analyzed for VOCs using EPA Method 6200B, SVOCs using EPA Method 625BNA, VPH and EPH using the MADEP Methods, EPA Method 504.1 for ethylene dibromide (EDB) and Standard Method 3030C for lead. Laboratory analysis of groundwater sample TW-1A detected C5-C8 aliphatics, C9-C18 aliphatics, total xylenes, p-Isopropyltoluene, naphthalene, tetrachloroethene (PCE) and ethylene dibromide (EDB) at concentrations that exceed the North Carolina 2L Groundwater Quality Standards (NC2LGWQS); however the concentrations do not exceed the Gross Contaminant Levels (GCLs).

The groundwater sample collected from TW-2A was analyzed for VOCs using EPA Method 8260 and SVOCs using EPA Method 8270BNA. Laboratory analysis of groundwater sample TW-2A did not detect targeted compounds above the laboratory quantitation limits. A summary of the groundwater laboratory analytical results is included in Table 3. The laboratory data sheets are included in the Appendix.

7.0 CONCLUSIONS

ECS observed the drilling of one soil boring at the site in the vicinity of our former boring GP-2 (TW-1A, the area of the highest apparent petroleum impact). ECS collected soil and groundwater samples from the soil boring as part of the Phase I LSA. Based on the laboratory analytical results, ECS concludes the following:

- Laboratory analysis of soil samples collected from depths of 10, 20, and 30 feet bgs detected targeted compounds above the NCDENR Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs). Laboratory analysis of each soil sample detected VPH and EPH above their NCDENR Residential Soil Cleanup Levels.

- Laboratory analysis of the groundwater sample detected targeted compounds at concentrations that exceed the NC2LGWQS; however the concentrations do not exceed the GCLs.

- An area reconnaissance did not positively, visually identify water supply wells within a 1,500-foot radius of the site. As part of the receptor survey, ECS sent 37 water supply questionnaires via certified mail to 63 property owners within a 500-foot radius of the source area. Thirty-six completed questionnaires did not indicate the presence of water supply wells within a 500-foot radius of the source area.

ECS observed the drilling of one soil boring (TW-2A) at the site within the footprint of the proposed building. ECS collected soil and groundwater samples from the soil boring as part of the Brownsfield Agreement. Based on the laboratory analytical results, ECS concludes the following:

- Laboratory analysis of two soil samples collected from depths of 5 and 10 feet bgs did not detected targeted compounds above the laboratory quantitation limits.

- Laboratory analysis of the groundwater sample did not detect targeted compounds at concentrations above the laboratory quantitation limits.

- An area reconnaissance did not positively, visually identify water supply wells within a 1,500-foot radius of the site. As part of the receptor survey, ECS sent 37 water supply questionnaires via certified mail to 63 property owners within a 500-foot radius of the source area. Thirty-six completed questionnaires did not indicate the presence of water supply wells within a 500-foot radius of the source area.

8.0 RECOMMENDATIONS

Based on the laboratory analysis of the soil and groundwater at the site performed as part of this assessment, and the lack of water supply wells within 500 feet of the site, the North Carolina Department of Environment and Natural Resources (NCDENR) will likely classify the site as "low risk".

Laboratory analyses of soil samples collected as part of this assessment indicate that the soil at the site is impacted above the Soil-to-Groundwater MSCCs and some concentrations exceed the Residential Soil Cleanup Levels. Based on the laboratory results, groundwater is impacted above the NC2LGWQS, but below the GCLs. Based on the soil and groundwater results, a "Notice of Residual Petroleum" (NORP) will need to be filed that restricts soil and groundwater use at the site and public notice will need to be issued.

It is our understanding that a Brownfields Agreement is being pursued for the site. The NCDENR, Brownfields Program may require that additional assessment be completed at the site in regards to obtaining a Brownfields Agreement.

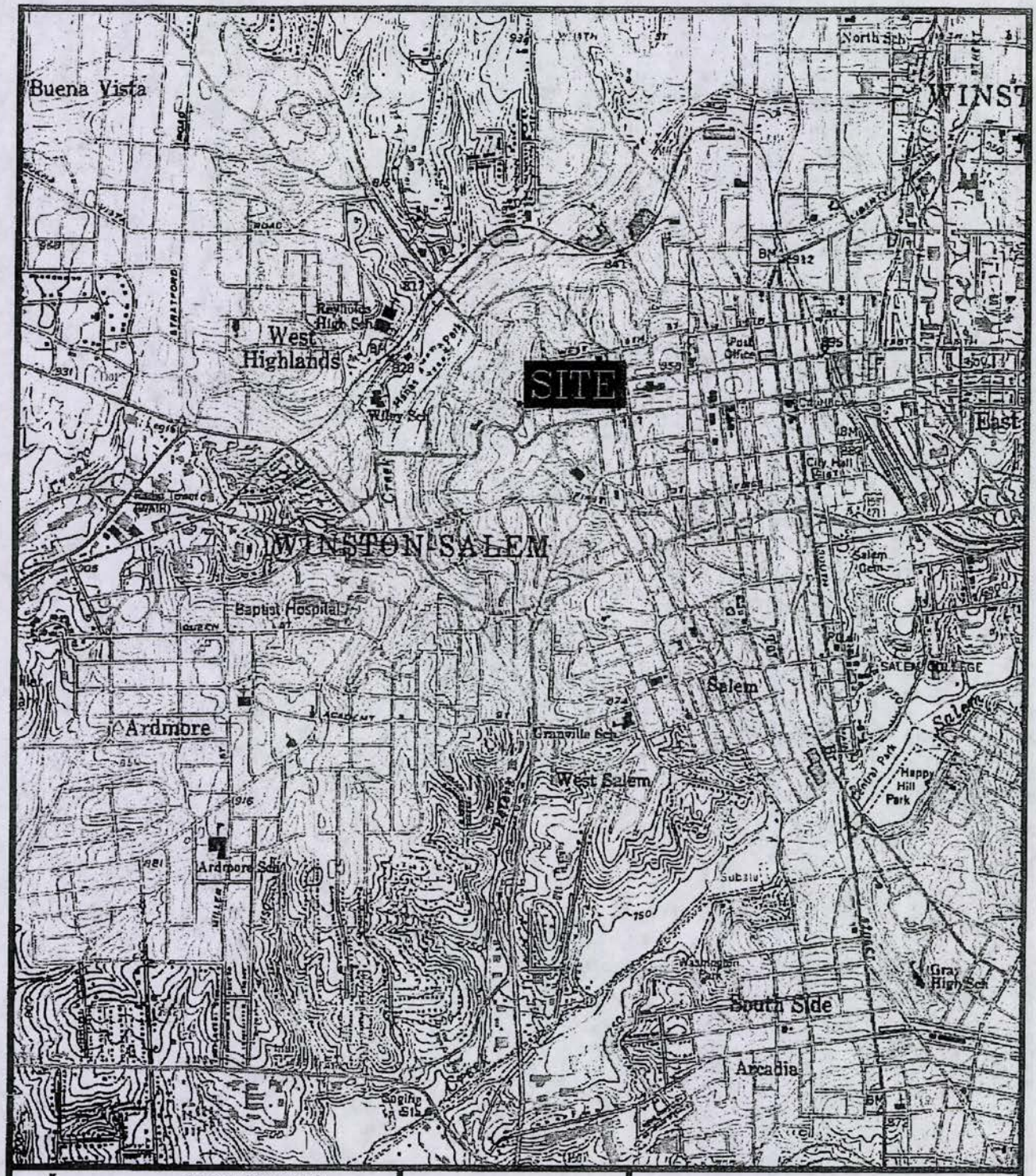
ECS recommends that this LSA report be submitted to the Winston-Salem Regional Office of the NCDENR, for their determination of the appropriate risk classification for the site. Furthermore, ECS requests that the site be classified as low risk and a notice of "No Further Action" (NFA) be issued once the NORP and public notice are completed.

If petroleum impacted soil is encountered during redevelopment, it should be properly disposed.

9.0 QUALIFICATIONS

The activities and evaluative approaches used in this assessment are consistent with those normally employed in environmental assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of Brookstown Holdings, LLC . Use of this report by any other individual or company implies their acceptance of the General Conditions of Service of the original contract.

FIGURES



SCALE (IN FEET)

1000 2000

2000 0

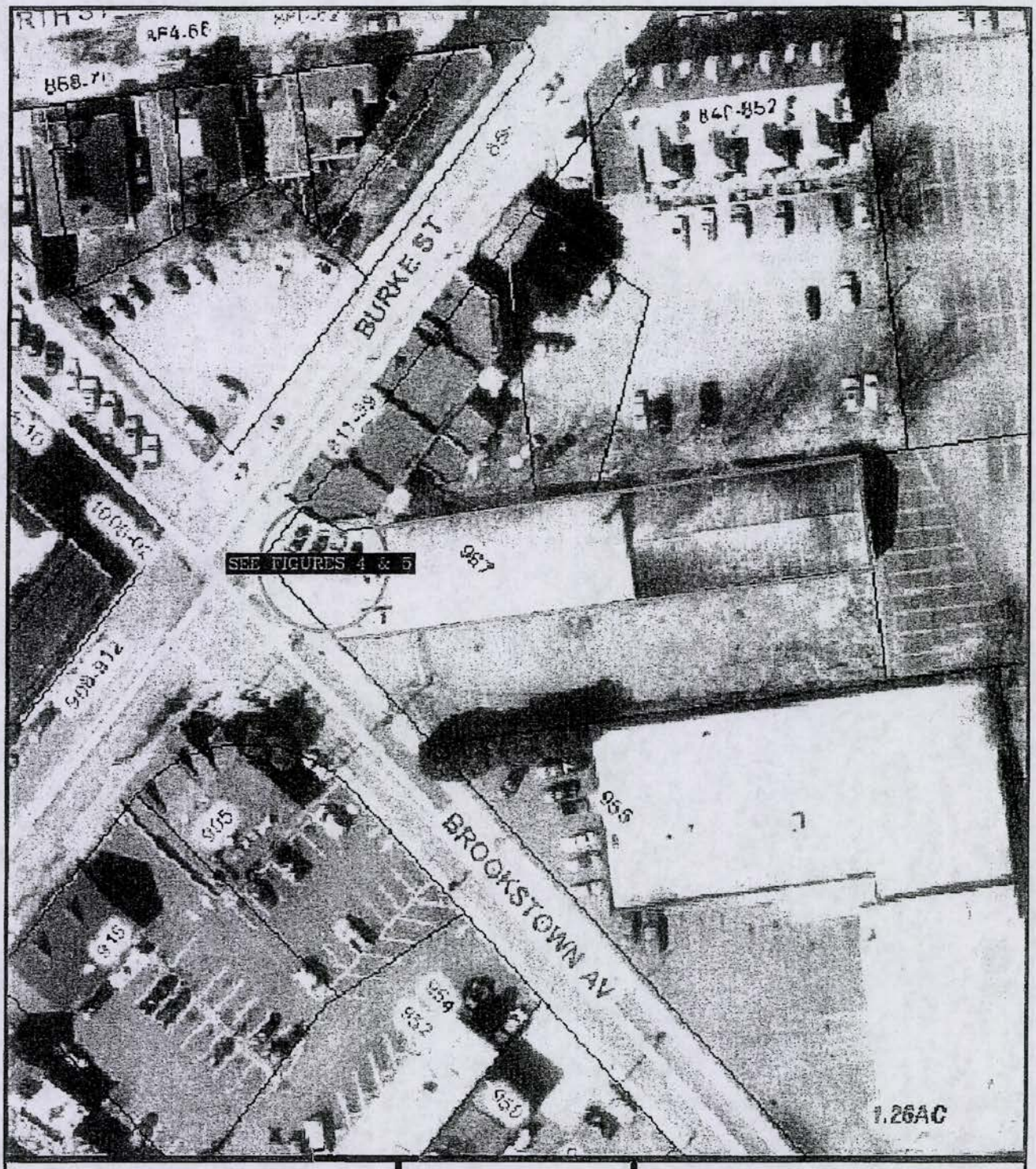
REFERENCE:
USGS TOPOGRAPHIC MAP
WINSTON-SALEM WEST, WINSTON-SALEM EAST, NC QUADRANGLES
DATED 1950, PHOTOREVISED 1994

ECS LLP
CAROLINAS

FIGURE 1

SITE LOCATION MAP
955 BROOKSTOWN AVENUE AND
967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937B



SCALE (IN FEET)

30 60

60 0

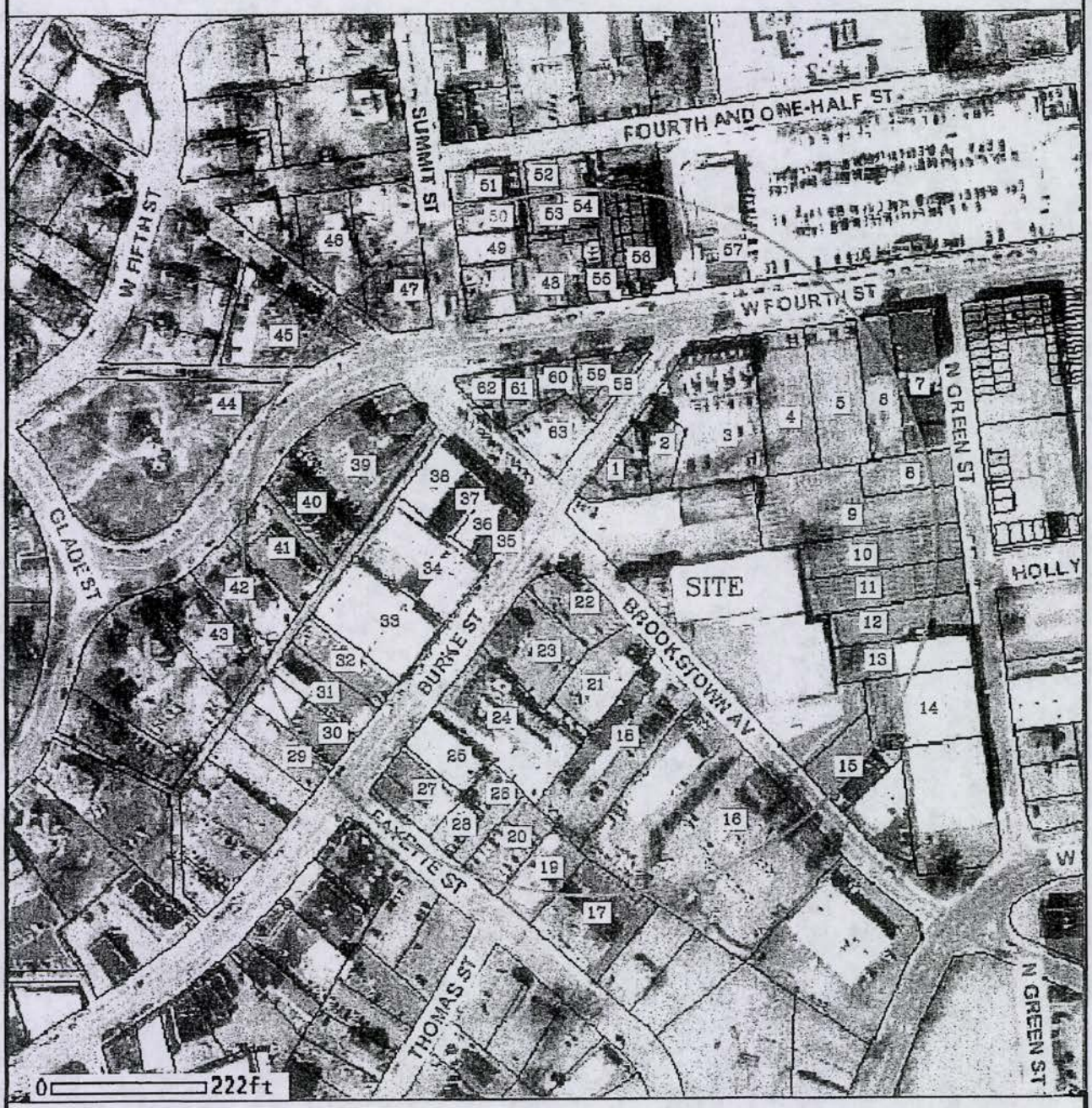
REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 2

SITE MAP
955 BROOKSTOWN AVENUE AND
967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937B



LEGEND

24 = PROPERTY WITHIN 500' RADIUS OF SOURCE AREA

SCALE (IN FEET)

100 200

200 0

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

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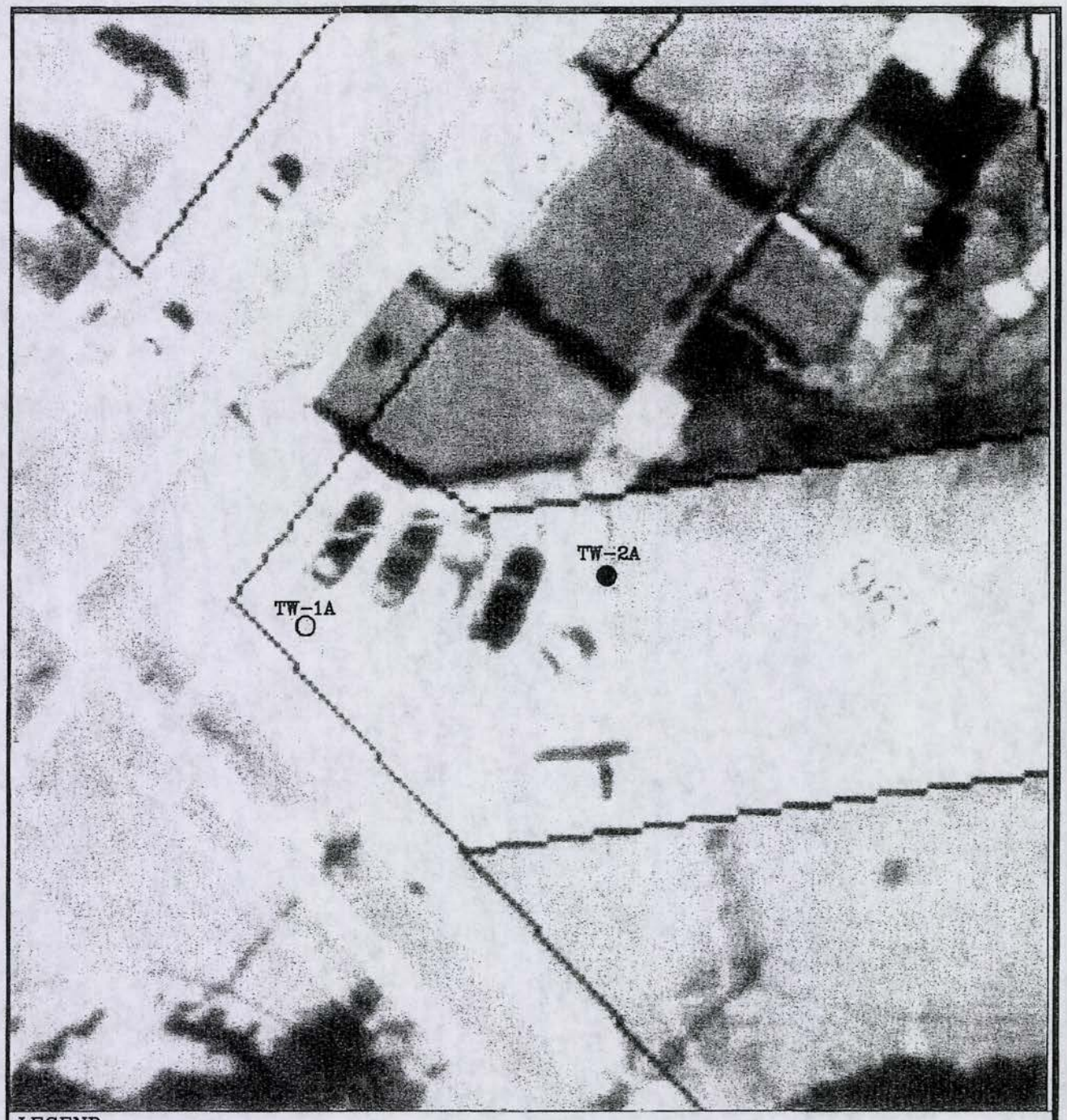
CAROLINAS

FIGURE 3

RECEPTOR SURVEY MAP
955 BROOKSTOWN AVENUE
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937B



LEGEND

● SOIL BORING BELOW SOIL-TO-GROUNDWATER MSCC

○ SOIL BORING ABOVE RESIDENTIAL SOIL CLEANUP LEVEL

SCALE (IN FEET)

10 20

20 0

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 4

SOIL SAMPLE LOCATION MAP
955 BROOKSTOWN AVENUE & 967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937B

LEGEND

= TEMPORARY GROUNDWATER MONITORING WELL ABOVE THE NC2LGWQS

= TEMPORARY GROUNDWATER MONITORING WELL BELOW THE NC2LGWQS

SCALE (IN FEET)

10 20

20 0

REFERENCE:
AERIAL PHOTOGRAPH OBTAINED FROM FORSYTH COUNTY GIS IN ELECTRONIC FORMAT

ECS LLP
CAROLINAS

FIGURE 5

GROUNDWATER SAMPLE LOCATION MAP
955 BROOKSTOWN AVENUE & 967 BURKE STREET
WINSTON-SALEM, NORTH CAROLINA

ECS PROJECT 09.13937B

TABLES

TABLE 1
PROPERTY OWNERS WITHIN 500 FEET

Map ID*	Owner/Occupant Name (Last, First MI)	Second Owner Name (Last, First MI)	Owner's Address	Property Address
Site	Brookstown Holdings, LLC		1645 Westbrook Plaza Drive, Winston-Salem, NC 27103	955 Brookstown Avenue
1	Brookstown Partners/Mutat, LLC		3122 Westbury Drive, Raleigh, NC 27607	811 Burke Street
2	Mutat, LLC		441 Archer Road, Winston-Salem, NC 27106	Fourth Street W
3	J. W. Tatum	Jack R. Tischler, Trustee	869 Brookleigh Court, Winston-Salem, NC 27104	840 Fourth Street W
4	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	Fourth Street W
5	Fowler Investment Company		P. O. Box 20249, Winston-Salem, NC 27120	Fourth Street W
6	Fowler Investment Company		P. O. Box 20249, Winston-Salem, NC 27120	824 Fourth Street W
7	Fowler Investment Company		800 Fourth Street, Winston-Salem, NC 27101	820 Fourth Street W
8	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	312 Green Street N
9	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	Green Street N
10	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	Green Street N
11	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	Green Street N
12	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	220 Green Street N
13	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	224 Green Street N
14	Fowler Morefield Company		800 Fourth Street, Winston-Salem, NC 27101	210 Green Street N
15	Banks Channel, LLC		923 Brookstown Avenue, Winston-Salem, NC 27107	923 Brookstown Avenue
16	City of Winston-Salem		930 Brookstown Avenue, Winston-Salem, NC 27107	930 Brookstown Avenue
17	R. David Mecum	Susan Mecum	3175 Plantation Road, Winston-Salem, NC 27105	123 Fayette Street
18	Nugent Properties, LLC		950 Brookstown Avenue, Winston-Salem, NC 27107	950 Brookstown Avenue
19	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	131 Fayette Street
20	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	Fayette Street
21	L&L Doumas Family, LLC	Doumas Family, LLC	3912 King Arthur Court, Winston-Salem, NC 27104	952 Brookstown Avenue
22	L&L Doumas Family, LLC	Doumas Family, LLC	3912 King Arthur Court, Winston-Salem, NC 27104	905 Burke Street

TABLE 1
PROPERTY OWNERS WITHIN 500 FEET

Map ID*	Owner/Occupant Name (Last, First MI)	Second Owner Name (Last, First MI)	Owner's Address	Property Address
23	Harry S. Davis, Jr.		4676 Greendale Way, Winston-Salem, NC 27103	915 Burke Street
24	Brookstown Associates, LLC		1020 Brookstown Avenue, Unit 15, Winston-Salem, NC 27101	939 Burke Street
25	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	955 Burke Street
26	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	Fayette Street
27	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	961 Burke Street
28	Fisk Electric Company		111 TC Jester Boulevard, Houston, TX 77210	Fayette Street
29	Burke Street Partners		940 Burke Street, Winston-Salem, NC 27101	Burke Street
30	Burke Street Partners		940 Burke Street, Winston-Salem, NC 27101	Burke Street
31	Burke Street Partners		940 Burke Street, Winston-Salem, NC 27101	Burke Street
32	Burke Street Partners		940 Burke Street, Winston-Salem, NC 27101	Burke Street
33	Burke Street Partners		940 Burke Street, Winston-Salem, NC 27101	940 Burke Street
34	Robert S. Jewell	Gair H. Jewell	940 Burke Street, Winston-Salem, NC 27101	930 Burke Street
35	Ogburn Investments, Inc.		P. O. Box 20189, Winston-Salem, NC 27120	908 Burke Street
36	James Edward Tatum		1004 Brookstown Avenue, Winston-Salem, NC 27101	1004 Brookstown Avenue
37	Robert S. Jewell	Gair H. Jewell	940 Burke Street, Winston-Salem, NC 27101	1008 Brookstown Avenue
38	Robert S. Jewell	Gair H. Jewell	940 Burke Street, Winston-Salem, NC 27101	1014 Brookstown Avenue
39	Wachovia Bank and Trust Company #4		301 Tryon Street, Charlotte, NC 28288	916 Fourth Street W
40	East Coast Capital Partners		301 Brookstown Avenue, Winston-Salem, NC 27101	926 Fourth Street W
41	Ali-Mar Properties, LLC		936 Fourth Street, Winston-Salem, NC 27101	930 Fourth Street W
42	MHC Construction, LLC		936 Fourth Street, Winston-Salem, NC 27101	936 Fourth Street W
43	Michael Macko		2201 Ashley Lake Drive, Lewisville, NC 27023	942 Fourth Street W
44	City of Winston-Salem			Glade Street
45	Allen H. Gwyn	Revelle S. Gwyn	2014 St. Andrews Road, Greensboro, NC 27408	915 Fourth Street W

TABLE 1
PROPERTY OWNERS WITHIN 500 FEET

Map ID*	Owner/Occupant Name (Last, First MI)	Second Owner Name (Last, First MI)	Owner's Address	Property Address
46	Salem Senior Housing, Inc.		1105 Brookstown Avenue, Winston-Salem, NC 27101	1105 Brookstown Avenue
47	Z House R-E, LLC		901 Fourth Street, Winston-Salem, NC 27101	901 Fourth Street W
48	Fred G. Vlasis	Janine Vlasis	2414 Buena Vista Road, Winston-Salem, NC 27104	871 Fourth Street W
49	L. C. Everhart	Nancy Everhart	405 Summit Street, Winston-Salem, NC 27107	405 Summit Street
50	Mackenzie Properties, LLC		407 Summit Street, Winston-Salem, NC 27101	407 Summit Street
51	Mackenzie Properties Two, LLC		407 Summit Street, Winston-Salem, NC 27101	409 Summit Street
52	Mackenzie Properties Two, LLC		407 Summit Street, Winston-Salem, NC 27101	Fourth & Half Street W
53	Mackenzie Properties Two, LLC		407 Summit Street, Winston-Salem, NC 27101	Fourth & Half Street W
54	Robert P. Sartin Advertising Company		860 Fourth & Half Street, Winston-Salem, NC 27101	860 Fourth & Half Street W
55	Clinard F. Dwiggins	Michael L. Shockley	855 Fourth Street, Winston-Salem, NC 27101	855 Fourth Street W
56	JDL Jackson, LLC		851 Fourth Street, Winston-Salem, NC 27101	851 Fourth Street W
58	Mutat, LLC		441 Archer Road, Winston-Salem, NC 27106	856 Fourth Street W
59	Gwen A. Pardue		8040 Twin Oaks Drive, Lewisville, NC 27023	860 Fourth Street W
60	John M. Cernak	Loraine A. Cernak	8828 Belhaven Court, Clemmons, NC 27012	864 Fourth Street W
61	Mutat, LLC		441 Archer Road, Winston-Salem, NC 27106	868 Fourth Street W
62	Brookstown Partners		3122 Westbury Drive, Raleigh, NC 27607	1007 Brookstown Avenue
63	Brookstown Partners/Mutat, LLC		3122 Westbury Drive, Raleigh, NC 27607	Burke Street

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

Project Name: 955 Brookstown Avenue, Winston Salem, Forsyth County, North Carolina
ECS Project: 09.13937B

Analytical Method			VPH	EPH & VPH	EPH & VPH	EPH	8260	8260	8260	8260	8260	8260	8260	8270	8260 & 8270
Contaminant of Concern			C5-C8 Aliphatics	C9-C22 Aromatics	C9-C18 Aliphatics	C19-C36 Aliphatics	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propylbenzene	1,24-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes, Total	2-Methylnaphthalene	Other Target Compounds
Sample ID	Date Collected	Approximate Sample Depth (ft. bgs)													
TW-1-10	08/28/2008	10	2,890	2,509	11,180	BQL	49.3	BQL	68.1	BQL	87.2	34.7	71.3	22.2	BQL
TW-1-20	08/28/2008	20	2,860	2,316	9,960	BQL	53.0	BQL	54.4	BQL	130	43.4	227	23.4	BQL
TW-1-30	08/28/2008	30	10,800	4,084	16,760	BQL	105	28.7	90.4	39.5	240	77.5	560	26.3	BQL
TW-2-5	08/28/2008	5	NSF	NSF	NSF	NSF	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
TW-2-10	08/28/2008	10	NSF	NSF	NSF	NSF	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Soil-to-Groundwater MSCC (mg/kg)			72	34	3,255	##	4.6	1.7	0.58	1.7	7.5	7.3	5	1.7	NA
Residential Soil Cleanup Levels (mg/kg)			939	469	9,386	93,860	1,560	1,564	313	626	782	782	3,129	63	NA
Industrial/Commercial Soil Cleanup Levels (mg/kg)			24,528	12,264	245,280	#	40,000	40,880	8,176	16,350	20,440	20,440	81,760	1,635	NA

= Above Soil-to-Groundwater MSCC
= Above Residential Soil Cleanup Levels
mg/kg = Milligrams per Kilograms (ppm)
ppm = parts per million
BQL = Below Quantitation Limit
MSCC = Maximum Soil Contaminant Concentrations
NSF = not sampled for
= Considered immobile
= Health based level > 100%

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

Project Name: 955 Brookstown Avenue, Winston-Salem, Forsyth County, North Carolina
ECS Project: 09.13937B

Analytical Method			VPH	EPH & VPH	EPH & VPH	EPH	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	6200B	625BNA	625BNA	504.1	3030C	8260, 8270BNA
Contaminant of Concern (µg/l)			C5-C8 Aliphatics	C9-C22 Aromatics	C9-C18 Aliphatics	C19-C36 Aliphatics	Benzene	Ethylbenzene	Toluene	Total Xylenes	p-Isopropyltoluene	I-propylbenzene	N-propylbenzene	Naphthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Tetrachloroethene	Naphthalene	2-Methylnaphthalene	Ethylene Dibromide (EDB)	Lead	Other Targeted Compounds
Sample ID	Date Collected	Depth to Groundwater (ft. below TOC)																				
TW-1A	08/29/08	31.71	3,630	1,390	4,558	BQL	285	190	40.2	1,020	6.8	26.2	26.9	195	41.5	148	2.7	42.0	12.0	9.30	10.0	NSF
TW-2A	08/29/08	30.12	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	NSF	BQL
NC2LGWQS (µg/l)			420	210	4,200	42,000	1	550	1,000	530	NS	70	70	21	350	350	0.7	21	14	0.0004	15	N/A
Gross Contaminant Levels (µg/l)			NS	NS	NS	NS	5,000	84,500	257,500	87,500	NS	25,000	30,000	15,500	25,000	28,500	700	15,500	12,500	50	15,000	N/A

[ ] = Above NC2LGWQS
ppb = parts per billion = µg/l
µg/l = micrograms per liter
BQL = below quantitation levels
TOC = top of casing
NC2LGWQS = North Carolina 2L Groundwater Quality Standards
NS = no standard (a concentration above the laboratory quantitation limit considered a violation)
NSF = not sampled for