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LIMITED SOIL AND GROUNDWATER INVESTIGATION REPORT

**717 NORTH PARK AVENUE
BURLINGTON, ALAMANCE COUNTY, NORTH CAROLINA
ECS PROJECT 09.19700A**

PREPARED FOR:

**OE ENTERPRISES
BURLINGTON, NORTH CAROLINA**

AUGUST 1, 2011



ECS CAROLINAS, LLP

Geotechnical • Construction Materials • Environmental • Facilities NC Registered Engineering Firm F-1078

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Winston-Salem, NC
"Setting the Standard for Service"



LETTER OF TRANSMITTAL

Date:	11-10-11	Project No.	09:19700A
Re:	Former Anneleen Hosiery Bldg Burlington, North Carolina		

To:
Colin Day
NCDENR
585 Waughtown Street
Winston-Salem, NC 27107

send to John Walch

We are sending you the following items via: Mail

COPIES	DATED	DESCRIPTION
1	08-01-2011	Limited Soil and Groundwater Report

REMARKS *For your review.*

Attached is the report for the above referenced site. Please sign below indicating that you have received our report and return to us.

For questions or comments regarding this report, please contact Randy Cavallier.

Respectfully,

Nancy E. O'Connor
Environmental Assistant

Received by: _____

Date: _____



ECS CAROLINAS, LLP

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Winston-Salem
"Setting the Standard for Service"

August 1, 2011

Mr. Roger Francis
OE Enterprises
348 Elizabeth Brady Road
Hillsborough, North Carolina 27278

Reference: Limited Soil and Groundwater Investigation Report
Former Annedeem Hosiery Building
717 North Park Avenue
Burlington, North Carolina
ECS Project 09.19700A

Dear Mr. Francis:

As authorized by your acceptance of our Proposal 09.17863-PR (revised) dated June 21, 2011, 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 Scientist

John M. Stewart, P.G.
Principal Geologist

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1.0 PROJECT INFORMATION

ECS Carolinas, LLP (ECS) recently prepared a Phase I Environmental Site Assessment (ESA) (ECS Project 09.19700) on the site located at 717 North Park Avenue in Burlington, North Carolina (Figures 1 and 2). Based on the records search, site reconnaissance and interviews, it appears that historically, the site contained various hosiery manufacturing facilities dating from at least 1918 to the mid-1980s. According to the city directories and Sanborn Fire Insurance Maps, dying operations were performed on the site from at least 1929 to at least 1960. We consider past use of the site for hosiery dying and finishing a Recognized Environmental Condition (REC) of the site.

The site is identified on the Underground Storage Tank (UST) database. According to the Environmental Data Resources, Inc. (EDR) report, local fire department interviews and a file review, the site contains a 1,000-gallon gasoline UST which was reportedly closed in December of 1988. ECS was not able to locate UST closure data or evidence that soil samples were collected in the vicinity of the UST. We consider the former UST to be an REC of the site.

The site is located in a residential/manufacturing area of Burlington. A dry-cleaning facility was formerly located approximately 250 feet northeast of the site. The EDR report did not identify the location as having a documented release. However, there is potential that an undocumented release from the former dry-cleaning business has impacted groundwater beneath the site. The former dry-cleaning business is an off-site REC of the site.

Mr. Roger Francis with OE Enterprises contracted with ECS to collect soil samples in the vicinity of the former UST and dying operations and groundwater samples along the northern property boundary to determine if the site has been impacted. Project information is based on a conversation between Mr. Francis and Mr. Ryan Abrahamson with ECS and the previously cited report.

2.0 FIELD ACTIVITIES

2.1 Soil Assessment (Former UST)

Two soil borings (GP-1 and GP-2) were drilled in the former UST excavation (Figure 3) to determine if an undocumented release from the former UST has impacted the site. The soil borings were drilled using a track mounted Geoprobe® drill rig. The Geoprobe® is capable of driving various forms of soil and groundwater sampling probes into the ground to depths equivalent to auger refusal. The Geoprobe® subcontractor used for this project was 3D Environmental Investigations, LLC (3D). The field activities were performed on June 29, 2011 and observed by an ECS professional. Prior to initiating the first boring and between each subsequent boring, the Geoprobe® drill rig and associated downhole equipment were decontaminated with a high-pressure steam cleaner.

Soil borings GP-1 and GP-2 were drilled to a depth of approximately 15 feet below the ground surface (bgs). The soil from each 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 borings was placed in resealable plastic bags and 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 reading recorded. The soil sample from borings TW-1 and TW-2 with the highest reading on the FID was submitted for chemical analysis.

The soil samples (GP-1 and GP-2) were placed in laboratory prepared containers using a new pair of disposable nitrile gloves for each sample. Each container was labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were then delivered to Research & Analytical Laboratories, Inc. (R&A) in Kernersville, North Carolina to be analyzed for gasoline and diesel range total petroleum hydrocarbons (TPH) using EPA Methods 8015/5035 and 8015/3550, respectively. A Chain of Custody Record was maintained and is included in Appendix A.

2.1 Soil Assessment (Former Dye House)

Two soil borings (GP-4 and GP-5) were drilled in the vicinity of the former dye house located inside of the current building (Figure 3) to determine if former dyeing operations have impacted the site. The soil borings were drilled using a track mounted Geoprobe® drill rig. Prior to initiating the first boring and between each subsequent boring, the Geoprobe® drill rig and associated downhole equipment were decontaminated with a high-pressure steam cleaner.

Soil borings GP-4 and GP-5 were drilled to a depth of approximately 10 feet bgs. The soil from each boring was screened using the FID. The soil from the borings was placed in resealable plastic bags and 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 reading recorded. The soil sample from borings GP-4 and GP-5 with the highest reading on the FID was submitted for chemical analysis.

The soil samples (GP-4 and GP-5) were placed in laboratory prepared containers using a new pair of disposable nitrile gloves for each sample. Each container was labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were then delivered to R&A to be analyzed for volatile organic compounds (VOCs) using EPA Method 8260, semi volatile organic compounds (SVOCs) using EPA Method 8270BNA (base neutrals and acid extractables) and total RCRA metals. A Chain of Custody Record was maintained and is included in Appendix A.

2.2 Groundwater Assessment

To help determine if impacted groundwater is present beneath the site, three, temporary groundwater monitoring wells (TW-1, TW-2 and TW-3, Figure 3) were installed at the site. Monitoring wells TW-1 and TW-2 were installed near the northern property line and monitoring well TW-3 was installed on the north side of the property.

The temporary wells were constructed with 1-inch I.D. schedule 40 PVC flushed-threaded casing and screen. The PVC screen and casing were lowered to the bottom of each borehole. A 20-foot length of slotted well screen with machined 0.010-inch slot widths and threaded bottom plug were installed at the bottom of each well. A solid section of PVC casing was placed above the screened interval flush with 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 2-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. Temporary monitoring well construction diagrams are included in Appendix B.

Prior to sampling, each temporary monitoring well was 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 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 pump and tubing, and transferred into sample containers provided by the laboratory. Following assessment activities, the wells were properly abandoned with bentonite.

The groundwater samples were placed in laboratory prepared containers using a new pair of disposable nitrile gloves for each sample. Each container was labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were then delivered to R&A to be analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 625BNA and total RCRA metals. A Chain of Custody Record was maintained and is included in Appendix B.

3.0 LABORATORY ANALYSIS

3.1 Soil Sample Results

Laboratory analysis of soil samples GP-1 and GP-2 did not detect gasoline range or diesel range TPH above the laboratory quantitation limits. Laboratory analysis of soil samples GP-4 and GP-5 did not detect VOCs or SVOCs above the laboratory quantitation limits. Laboratory analysis of soil samples GP-4 and GP-5 detected barium, chromium, lead and mercury above the laboratory quantitation limits; however, the concentrations do not exceed the North Carolina Department of Environment and Natural Resources (NCDENR), Inactive Hazardous Sites Branch (IHSB) Soil Remediation Goals (SRGs). A summary of the laboratory analytical results may be found on Table 1. The laboratory data sheets are included in Appendix C.

3.2 Groundwater Sample Analysis

Laboratory analysis of the sample collected from TW-1 detected bromodichloromethane and tetrachloroethene (PCE) above their respective North Carolina 2L Groundwater Quality Standards (2L Standard). The analysis detected chromium in all three samples above the 2L Standard and lead in the sample collected from TW-1 above the 2L Standard. A summary of the laboratory analytical results may be found on Table 2. The laboratory data sheets are included in Appendix C.

minimum 2-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. Temporary monitoring well construction diagrams are included in Appendix B.

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The groundwater samples were placed in laboratory prepared containers using a new pair of disposable nitrile gloves for each sample. Each container was labeled and placed in a cooler containing ice to maintain the samples at approximately 4° Celsius. The samples were then delivered to R&A to be analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 625BNA and total RCRA metals. A Chain of Custody Record was maintained and is included in Appendix B.

3.0 LABORATORY ANALYSIS

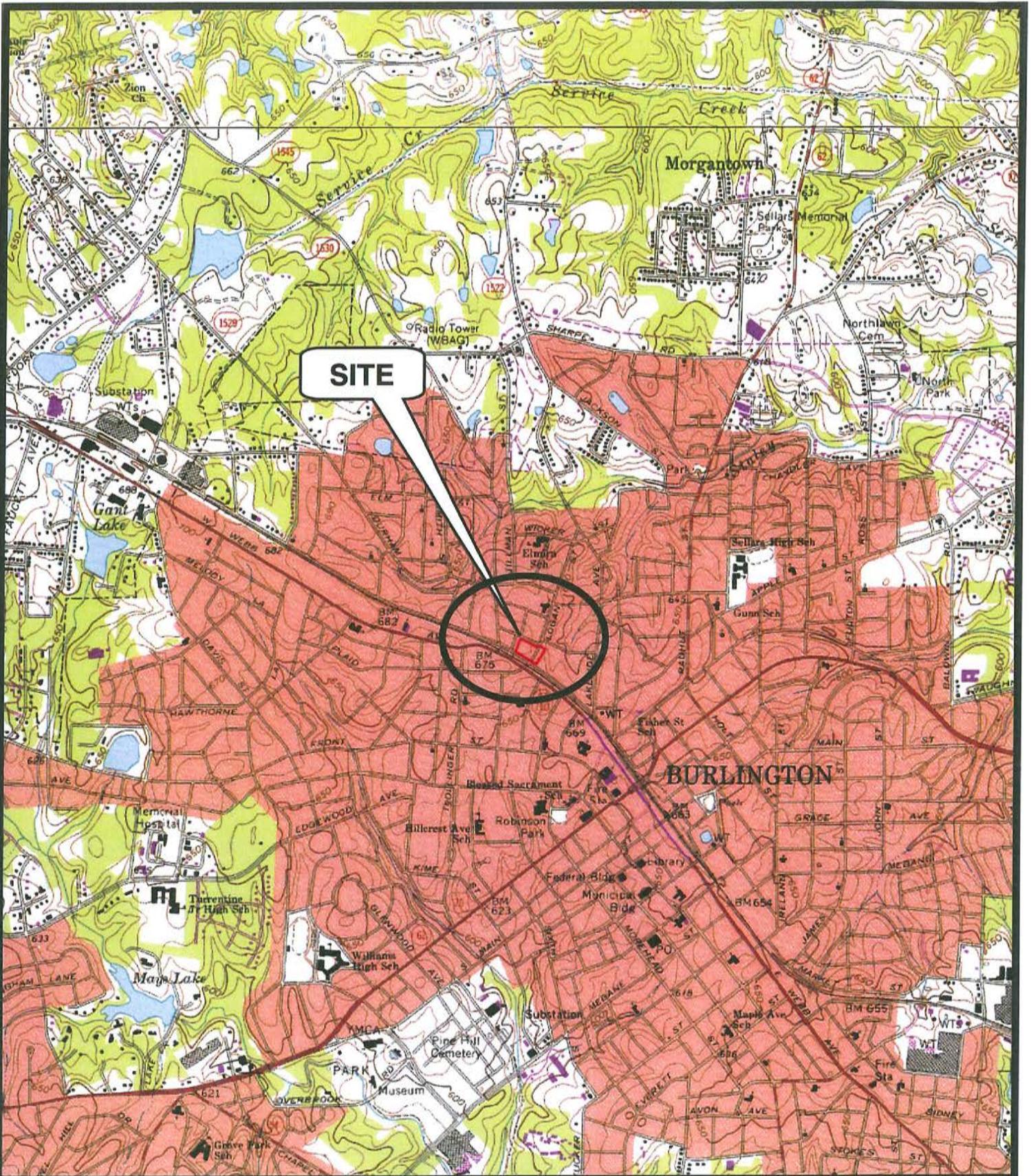
3.1 Soil Sample Results

Laboratory analysis of soil samples GP-1 and GP-2 did not detect gasoline range or diesel range TPH above the laboratory quantitation limits. Laboratory analysis of soil samples GP-4 and GP-5 did not detect VOCs or SVOCs above the laboratory quantitation limits. Laboratory analysis of soil samples GP-4 and GP-5 detected barium, chromium, lead and mercury above the laboratory quantitation limits; however, the concentrations do not exceed the North Carolina Department of Environment and Natural Resources (NCDENR), Inactive Hazardous Sites Branch (IHSB) Soil Remediation Goals (SRGs). A summary of the laboratory analytical results may be found on Table 1. The laboratory data sheets are included in Appendix C.

3.2 Groundwater Sample Analysis

Laboratory analysis of the sample collected from TW-1 detected bromodichloromethane and tetrachloroethene (PCE) above their respective North Carolina 2L Groundwater Quality Standards (2L Standard). The analysis detected chromium in all three samples above the 2L Standard and lead in the sample collected from TW-1 above the 2L Standard. A summary of the laboratory analytical results may be found on Table 2. The laboratory data sheets are included in Appendix C.

FIGURES



SOURCE:

USGS TOPOGRAPHIC MAP
 BURLINGTON, NC QUADRANGLE
 DATED 1969 AND REVISED 1981

SCALE 1"=2,000'



FIGURE 1

SITE LOCATION MAP
 FORMER ANNEDEEN HOSIERY
 717 NORTH PARK AVENUE
 BURLINGTON, NORTH CAROLINA

ECS PROJECT NO. 09-19700A



SOURCE:

ALAMANCE COUNTY GIS DEPARTMENT
AERIAL PHOTOGRAPH, DATED 2010

SCALE: 1" ≈ 400'

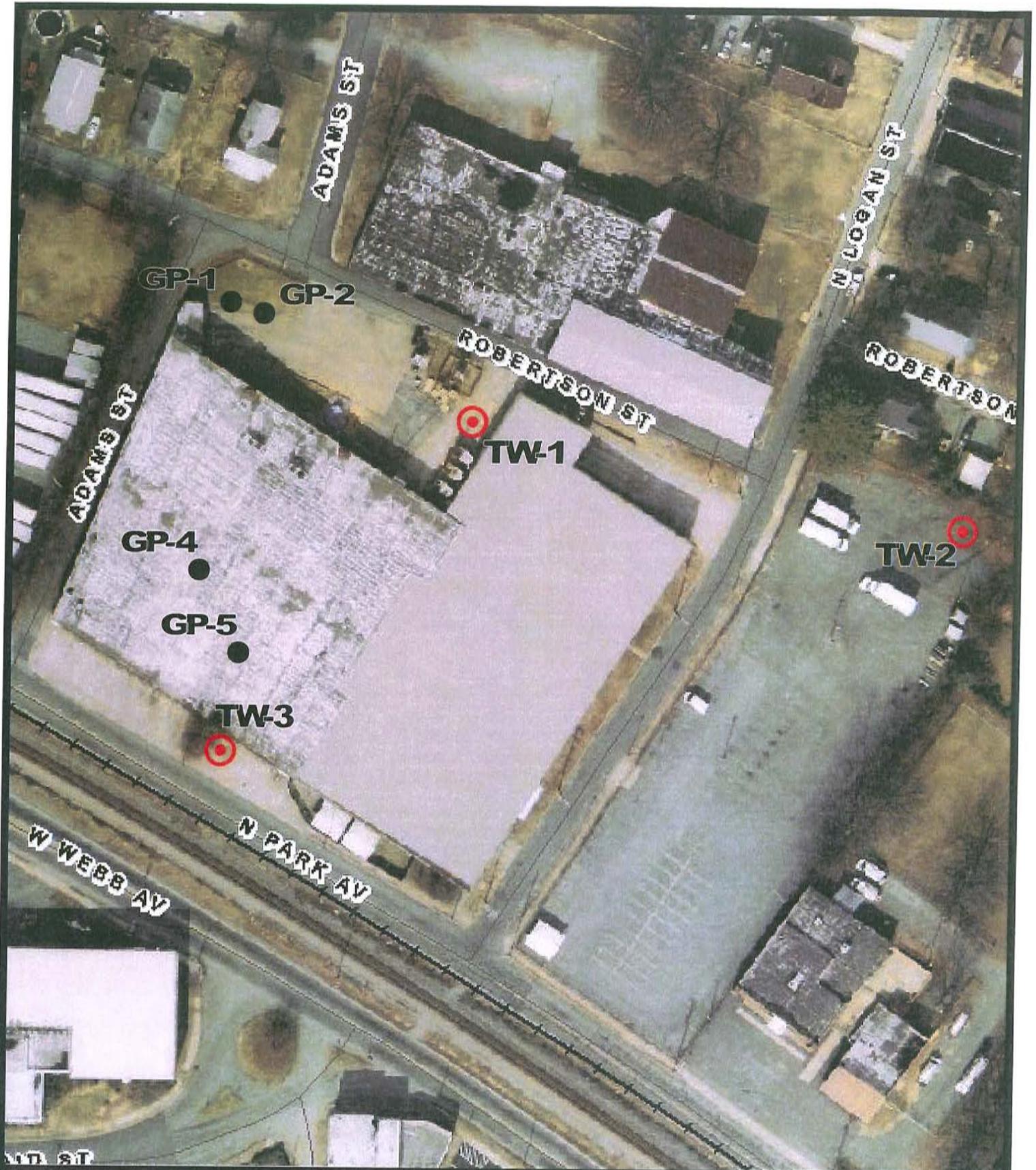


FIGURE 2

SITE MAP

FORMER ANNEDEEN HOISERY
717 NORTH PARK AVENUE
BURLINGTON, NORTH CAROLINA

ECS PROJECT NO. 09-19700A



SOURCE:

ALAMANCE COUNTY GIS DEPARTMENT
AERIAL PHOTOGRAPH, DATED 2010

SCALE: 1" ≈ 40'



FIGURE 3
SOIL AND GROUNDWATER
SAMPLE LOCATION MAP
FORMER ANNEDEEN HOISERY
717 NORTH PARK AVENUE
BURLINGTON, NORTH CAROLINA

ECS PROJECT NO. 09-19700A

TABLES

TABLE 1: SUMMARY OF SOIL ANALYTICAL RESULTS

Parameter	ANALYTICAL RESULTS					COMPARISON CRITERIA		
	GP-1	GP-2	GP-4	GP-5		State Action Level	Preliminary Health-Based SRG	Protection of Groundwater PSRG
Sample ID	15	15	5	5				
Collection Depth (feet bgs)								
Collection Date	6/29/2011	6/29/2011	6/29/2011	6/29/2011	6/29/2011			
Volatile Organic Compounds by EPA Method 8260								
All Compounds	BQL	BQL	BQL	BQL	BQL	--	--	--
Semi-Volatile Organic Compounds by EPA Method 8270 BNA								
All Compounds	BQL	BB	BQL	BQL	BQL	--	--	--
Metals								
Barium	NA	NA	4.06	6.00	6.00	--	3,100	580
Chromium	NA	NA	7.07	23.30	23.30	--	23,000	360,000
Lead	NA	NA	3.53	7.11	7.11	--	400	270
Mercury	NA	NA	0.052	0.067	0.067	--	4.7	1
Total Petroleum Hydrocarbons by EPA Method 8015 following 3550/5030 Preparations								
DRO	BQL	BQL	NA	NA	NA	10	--	--
GRO	BQL	BQL	NA	NA	NA	10	--	--

Notes:

Results presented in milligrams per kilogram (mg/kg), analogous to parts per million (ppm)

Feet bgs = Feet below ground surface

BQL = Compound not detected at a concentration above the method quantitation limit

Bold denotes concentration exceeds the State Action Level or SRG

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

NA = Not analyzed by this method

BNA = Base Neutral and Acid Extractables

SRG = Soil Remediation Goal

PSRG = Preliminary Soil Remediation Goal

TABLE 2: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Parameter	ANALYTICAL RESULTS			2L Standards
	TW-1	TW-2	TW-3	
Location	TW-1	TW-2	TW-3	2L Standards
Date Sampled	6/30/2011	6/30/2011	6/30/2011	
Bromodichloromethane	1.33	BQL	BQL	0.6
Chloroform	10.3	3.47	BQL	70
Tetrachloroethene	1.93	BQL	BQL	0.7
Barium	220	132	274	700
Chromium	14.4	38.5	70.2	10
Lead	20.7	8.1	BQL	15

Notes:

Concentrations are presented in micrograms per liter, analagous to parts per billion

2L Standard = 15 A NCAC 2L.0202 Water Quality Standard - January 1, 2010

Bold = Concentration exceeds the 2L Standard

BQL = Below the quantitation limit of the method of analysis

APPENDIX A



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



July 8, 2011

ECS Carolinas, LLP
4811 Koger Blvd.
Greensboro, NC 27407
Attention: Randy Cavalier

**Chemical Analysis for Total Petroleum Hydrocarbons (TPH) for Selected Soil Samples Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 29 June 2011)**

<u>Sample Identification</u>	<u>RAL Sample#</u>	<u>Date Taken</u>	<u>Time (hrs)</u>	<u>Quantitation Limit (mg/kg)</u>	<u>EPA Method 5035 (mg/kg)</u>	<u>Date Analyzed</u>
GP-1	706525	06/29/11	1030	10	BQL	07/05/11
GP-2	706526	06/29/11	1035	10	BQL	07/05/11

EPA Method 5035 = Total Petroleum Hydrocarbons as Gasoline

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

BQL = Below Quantitation Limit



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



July 8, 2011

ECS Carolinas, LLP
4811 Koger Blvd.
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Attention: Randy Cavalier

**Chemical Analysis for Total Petroleum Hydrocarbons (TPH) for Selected Soil Samples Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 29 June 2011)**

<u>Sample Identification</u>	<u>RAL Sample#</u>	<u>Date Taken</u>	<u>Time (hrs)</u>	<u>Quantitation Limit (mg/kg)</u>	<u>EPA Method 3550 (mg/kg)</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
GP-1	706525	06/29/11	1030	10	BQL	07/05/11	07/05/11
GP-2	706526	06/29/11	1035	10	BQL	07/05/11	07/05/11

EPA Method 3550 = Total Petroleum Hydrocarbons as Diesel
mg/kg = milligrams per kilogram = parts per million (ppm)
BQL = Below Quantitation Limit



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



**Chemical Analysis for Selected Parameters and Sampling Locations Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 29 June 2011)**

I. Volatile Organics	Quantitation	GP-4	GP-5
EPA Method 8260 B	Limit		
Parameter	(mg/kg)	(mg/kg)	(mg/kg)
Acetone	0.100	BQL	BQL
Benzene	0.005	BQL	BQL
Bromobenzene	0.005	BQL	BQL
Bromochloromethane	0.005	BQL	BQL
Bromodichloromethane	0.005	BQL	BQL
Bromoform	0.005	BQL	BQL
Bromomethane	0.010	BQL	BQL
2-Butanone	0.100	BQL	BQL
N-Butylbenzene	0.005	BQL	BQL
Sec-Butylbenzene	0.005	BQL	BQL
Tert-Butylbenzene	0.005	BQL	BQL
Carbon Tetrachloride	0.010	BQL	BQL
Chlorobenzene	0.005	BQL	BQL
Dibromochloromethane	0.005	BQL	BQL
Chloroethane	0.010	BQL	BQL
Chloroform	0.005	BQL	BQL
Chloromethane	0.010	BQL	BQL
2-Chlorotoluene	0.005	BQL	BQL
4-Chlorotoluene	0.005	BQL	BQL
1,2-Dibromoethane (EDB)	0.005	BQL	BQL
1,2-Dichlorobenzene	0.005	BQL	BQL
1,3-Dichlorobenzene	0.005	BQL	BQL
1,4-Dichlorobenzene	0.005	BQL	BQL
Dichlorodifluoromethane	0.005	BQL	BQL
1,1-Dichloroethane	0.005	BQL	BQL
1,2-Dichloroethane	0.005	BQL	BQL
1,1-Dichloroethene	0.005	BQL	BQL
Cis-1,2-Dichloroethene	0.005	BQL	BQL
Trans-1,2-Dichloroethene	0.005	BQL	BQL
1,2-Dichloropropane	0.005	BQL	BQL
1,3-Dichloropropane	0.005	BQL	BQL
2,2-Dichloropropane	0.005	BQL	BQL
1,1-Dichloropropane	0.005	BQL	BQL
Cis-1,3-Dichloropropene	0.010	BQL	BQL
Trans-1,3-Dichloropropene	0.010	BQL	BQL
Ethyl Acetate	0.010	BQL	BQL
Ethyl Benzene	0.005	BQL	BQL
2-Hexanone	0.050	BQL	BQL
1-Propylbenzene	0.005	BQL	BQL
Isopropyl ether (IPE)	0.010	BQL	BQL
p-Isopropyltoluene	0.005	BQL	BQL
Methylene Chloride	0.020	BQL	BQL
4-Methyl-2-Pentanone	0.100	BQL	BQL
Methyl-Tert-Butyl ether (MTBE)	0.010	BQL	BQL
Naphthalene	0.010	BQL	BQL
N-Propylbenzene	0.005	BQL	BQL
Styrene	0.010	BQL	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL	BQL
Tetrachloroethene	0.005	BQL	BQL
Toluene	0.005	BQL	BQL
1,1,1-Trichloroethane	0.005	BQL	BQL
1,1,2-Trichloroethane	0.005	BQL	BQL
Trichloroethene	0.005	BQL	BQL
Trichlorofluoromethane	0.005	BQL	BQL
1,2,3-Trichlorobenzene	0.005	BQL	BQL
1,2,4-Trichlorobenzene	0.005	BQL	BQL
1,2,3-Trichloropropane	0.015	BQL	BQL
1,2,4-Trimethylbenzene	0.005	BQL	BQL
1,3,5-Trimethylbenzene	0.005	BQL	BQL
Vinyl Acetate	0.050	BQL	BQL
Vinyl Chloride	0.010	BQL	BQL
Total Xylenes	0.005	BQL	BQL
Carbon Disulfide	0.100	BQL	BQL
Acrylonitrile	0.200	BQL	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL	BQL
Methyl Iodide	0.010	BQL	BQL
Dibromomethane	0.010	BQL	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL
Ethanol	0.100	BQL	BQL
Dilution Factor		1	1
Sample Number		706527	706528
Sample Date		06/29/11	06/29/11
Sample Time (hrs)		1210	1226
Date Analyzed		07/04/11	07/04/11

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

--- = Not Available



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



*Chemical Analysis for Selected Parameters and Sampling Locations Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 29 June 2011)*

II. Semi-Volatile Organics EPA Method 8270 BNA Parameter	Quantitation Limit (mg/kg)	GP-4 (mg/kg)	GP-5 (mg/kg)
Acenaphthene	0.33	BQL	BQL
Acenaphthylene	0.33	BQL	BQL
Anthracene	0.33	BQL	BQL
Benzoic Acid	6.67	BQL	BQL
Benzo(a)anthracene	0.33	BQL	BQL
Benzo(b)fluoranthene	0.33	BQL	BQL
Benzo(k)fluoranthene	0.33	BQL	BQL
Benzo(ghi)perylene	0.33	BQL	BQL
Benzo(a)pyrene	0.33	BQL	BQL
Benzyl Alcohol	3.33	BQL	BQL
Bis(2-chloroethoxy)methane	0.33	BQL	BQL
Bis(2-chloroethyl)ether	0.33	BQL	BQL
Bis(2-chloroisopropyl)ether	0.33	BQL	BQL
Bis(2-ethyl-hexyl)phthalate	0.33	BQL	BQL
4-Bromophenyl phenyl ether	0.33	BQL	BQL
Benzyl butyl phthalate	0.33	BQL	BQL
4-Chloroaniline	1.65	BQL	BQL
4-Chloro-3-methylphenol	0.33	BQL	BQL
2-Chloronaphthalene	0.33	BQL	BQL
2-Chlorophenol	0.33	BQL	BQL
4-Chlorophenyl phenyl ether	0.33	BQL	BQL
Chrysene	0.33	BQL	BQL
Dibenzo(a,h)anthracene	0.33	BQL	BQL
Dibenzofuran	0.33	BQL	BQL
Di-N-Butyl phthalate	0.33	BQL	BQL
1,2-Dichlorobenzene	0.33	BQL	BQL
1,3-Dichlorobenzene	0.33	BQL	BQL
1,4-Dichlorobenzene	0.33	BQL	BQL
3,3-Dichlorobenzidine	0.66	BQL	BQL
2,4-Dichlorophenol	0.33	BQL	BQL
Diethyl phthalate	0.33	BQL	BQL
2,4-Dimethylphenol	0.33	BQL	BQL
Dimethyl phthalate	0.33	BQL	BQL
4,6-Dinitro-2-methylphenol	1.65	BQL	BQL
2,4-Dinitrophenol	1.65	BQL	BQL
2,4-Dinitrotoluene	0.33	BQL	BQL
2,6-Dinitrotoluene	0.33	BQL	BQL
Di-N-Octyl phthalate	0.33	BQL	BQL
Azobenzene	3.33	BQL	BQL
Fluoranthene	0.33	BQL	BQL
Fluorene	0.33	BQL	BQL
Hexachlorobenzene	0.33	BQL	BQL
Hexachlorobutadiene	0.33	BQL	BQL
Hexachlorocyclopentadiene	0.33	BQL	BQL
Hexachloroethane	0.33	BQL	BQL
Indeno(1,2,3-cd) pyrene	0.33	BQL	BQL
Isophorone	0.33	BQL	BQL
2-Methylnaphthalene	0.33	BQL	BQL
2-Methylphenol	1.65	BQL	BQL
4-Methylphenol	1.65	BQL	BQL
Nitrobenzene	0.33	BQL	BQL
2-Nitrophenol	0.33	BQL	BQL
4-Nitrophenol	1.65	BQL	BQL
N-Nitrosodiphenylamine	0.33	BQL	BQL
N-nitrosodi-n-propylamine	0.33	BQL	BQL
Pentachlorophenol	1.65	BQL	BQL
Phenanthrene	0.33	BQL	BQL
Phenol	0.33	BQL	BQL
Pyrene	0.33	BQL	BQL
1,2,4-Trichlorobenzene	0.33	BQL	BQL
2,4,6-Trichlorophenol	0.33	BQL	BQL
2-Methyl-4,6-dinitrophenol	1.65	BQL	BQL
Benzidine	1.65	BQL	BQL
1,2-Diphenylhydrazine	1.65	BQL	BQL
N-Nitrosodimethylamine	0.33	BQL	BQL
Naphthalene	0.33	BQL	BQL
Dilution Factor		1	1
Sample Number		706527	706528
Sample Date		06/29/11	06/29/11
Sample Time (hrs)		1210	1226
Date Extracted		07/05/11	07/05/11
Date Analyzed		07/05/11	07/05/11

mg/kg = milligrams per kilogram = parts per million (ppm) — = Not Available
 BQL = Below Quantitation Limits BNA = Base-Neutral Acid Extractables
 J = Estimated Concentration. Present but below quantitation



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*Chemical Analysis for Selected Parameters and Sampling Locations Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 29 June 2011)*

III. Total RCRA	GP-4	GP-5
Metals		
<u>Parameter</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Arsenic, Total	<1.20	<1.29
Barium, Total	4.06	5.62
Cadmium, Total	<0.120	<0.129
Chromium, Total	7.07	23.3
Lead, Total	3.53	7.11
Mercury, Total	0.052	0.067
Selenium, Total	<1.20	<1.29
Silver, Total	<1.20	<1.29
Sample Number:	706527	706528
Sample Collected Date:	06/29/11	06/29/11
Sample Collected Time (Hrs):	1210	1226

mg/kg = milligrams per kilogram = parts per million

BQL = Below Quantitation Limit



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Chemical Analysis for Selected Parameters and Sampling Location Identified as Park Avenue (An ECS Carolinas, LLP Project, collected 30 June 2011)

I. Volatile Organics	Quantitation	TW-1	TW-2	TW-3
EPA Method 8260 B	Limit			
Parameter	(ppb)	(ppb)	(ppb)	(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	1.33	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	10.3	3.47	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
Dichlorofluoromethane	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
1-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	1.93	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		706529	706530	706531
Sample Date		06/30/11	06/30/11	06/30/11
Sample Time (hrs)		1130	1300	1500



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**Chemical Analysis for Selected Parameters and Sampling Location Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 30 June 2011)**

II. Semi-Volatile Organics	Quantitation	TW-1	TW-2	TW-3
EPA Method 625 BN	Limit			
Parameter	(ppb)	(ppb)	(ppb)	(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
Dilution Factor		1	1	1
Sample Number		706529	706530	706531
Sample Date		06/30/11	06/30/11	06/30/11
Sample Time (hrs)		1130	1300	1500

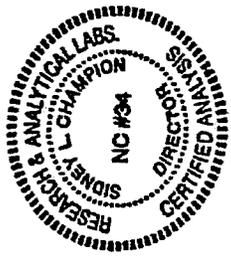
BNA = Base-Neutral Acid Extractables

ppb = parts per billion



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



*Chemical Analysis for Selected Parameters and Sampling Location Identified as Park Avenue
(An ECS Carolinas, LLP Project, collected 30 June 2011)*

I. RCRA Metals Parameter	Quantitation Limits (ppb)	TW-1	TW-2	TW-3
		(ppb)	(ppb)	(ppb)
Arsenic, Total	5.00	BQL	BQL	BQL
Barium, Total	5.00	220	132	274
Cadmium, Total	1.00	BQL	BQL	BQL
Chromium, Total	5.00	14.4	38.5	70.2
Lead, Total	5.00	20.7	8.1	BQL
Mercury, Total	0.20	BQL	BQL	BQL
Selenium, Total	5.00	BQL	BQL	BQL
Silver, Total	5.00	BQL	BQL	BQL
Sample Number:		706529	706530	706531
Sample Collected Date:		06/30/11	06/30/11	06/30/11
Sample Collected Time (Hrs):		1130	1300	1500

ppb = parts per billion

BQL = Below Quantitation Limit

ANALYTICAL

NC. stations

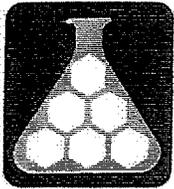
CHAIN OF CUSTODY RECORD

04288

Client: FCS Carolina Project ID: PK Ave Date: 6/30/11 Report To: Receivables
 Address: 1811 Kays Blvd Contact: Randy Caville Turnaround: SHL 5 Day
 Address: Greensboro NC Phone: 336 856 7150 Job Number: _____ Invoice To: _____
 Quote #: 27107 Fax: 336 856 7162 P.O. Number: _____

Sample ID	Date	Time	Presentatives			Analyses			Comments: Please specify any special handling requirements		
			Test	HL	HL03	80N/005	80N/8550	8260		8270/8N	PCRA
GP-1	6/29/11	1030	✓	✓	✓	✓	✓	✓	✓	✓	QA/QC
GP-2		1035	✓	✓	✓	✓	✓	✓	✓	✓	T00525
GP-3A		1210	✓	✓	✓	✓	✓	✓	✓	✓	S20
GP-3B		1220	✓	✓	✓	✓	✓	✓	✓	✓	S27
TW-1	6/30/11	1130	✓	✓	✓	✓	✓	✓	✓	✓	S28
TW-2		100	✓	✓	✓	✓	✓	✓	✓	✓	S29
TW-3		300	✓	✓	✓	✓	✓	✓	✓	✓	S30
#											S31
Requisitioner By: <u>[Signature]</u>			Date: <u>6/30/11</u>	Time: <u>457</u>	Received By: <u>[Signature]</u>	Date: _____	Time: _____	Temperature: <u>3.1</u>	State Certification Requested: NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other _____		

ORIGINAL



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

CASE NARRATIVE

Four (4) soil and Three (3) water samples were received in good condition on 30 June 2011. The samples were analyzed without difficulties unless noted below.

07-08-11

Sidney L. Champion
Director of Laboratory Services

Date

QA/QC Summary

Method 8260 (50/100/500/1000 PPB QC)					FILE NAME: SLC0704A				
CLIENT: ECS(CAROLINAS) (PROJECT : PARK AVENUE)								Page 1 of 2	
Sample ID	706527-528			VOA INSTRUMENT(MS-2)					
Extraction Method	5035								
Date Extracted	N/A								
Weight/Volume Used	5G/5ML								
Final Volume	5G/5ML								
Date Analyzed	07/04/11								
% Surrogate Recovery	103	102	97						
Acceptance Range	(70 - 130)	(70 - 130)	(70 - 130)						
Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptance Range	QC LIMITS				
					MS % Rec. *	MSD % Rec. *	RPD	RPD	PERCENT RECOVERY
Dichlorodifluoromethane	0.00047	ND	86	56 - 126					
Chloromethane	0.00050	ND	100	62 - 133					
Vinyl Chloride	0.00059	ND	95	67 - 136					
Bromomethane	0.00028	ND	84	72 - 130					
Chloroethane	0.00029	ND	94	73 - 138					
Trichlorofluoromethane	0.00037	ND	97	78 - 131					
Acetone	0.00159	ND	73	62 - 119					
Acrylonitrile	0.00036	ND	93	76 - 135					
2-Butanone	0.00152	ND	86	62 - 122					
1,1-Dichloroethene	0.00059	ND	99	82 - 133	105	110	5	14	61-145
Methyl Iodide	0.00307	ND	94	70 - 136					
Carbon Disulfide	0.00042	ND	94	76 - 132					
Methylene Chloride	0.00138	ND	92	68 - 135					
Trans-1,2-Dichloroethene	0.00107	ND	97	80 - 134					
1,1-Dichloroethane	0.00036	ND	99	74 - 140					
Isopropyl ether (IPE)	0.00024	ND	92	67 - 139					
Methyl-Tert-Butyl ether (MTBE)	0.00032	ND	86	68 - 131					
Vinyl Acetate	0.00035	ND	95	67 - 127					
Cis-1,2-Dichloroethene	0.00031	ND	100	78 - 133					
2,2-Dichloropropane	0.00029	ND	90	72 - 123					
Bromochloromethane	0.00049	ND	86	71 - 139					
Chloroform	0.00029	ND	97	81 - 126					
1,1,1-Trichloroethane	0.00028	ND	97	76 - 129					
Carbon Tetrachloride	0.00081	ND	100	81 - 133					
1,1-Dichloropropene	0.00059	ND	99	80 - 135					
Benzene	0.00038	ND	97	78 - 131	99	107	7	11	76-127
Ethyl Acetate	0.00074	ND	86	63 - 122					
1,2-Dichloroethane	0.00055	ND	91	72 - 132					
Trichloroethene(TCE)	0.00028	ND	93	79 - 126	89	93	4	14	71-120
1,2-Dichloropropane	0.00023	ND	83	79 - 126					
Dibromomethane	0.00043	ND	89	71 - 129					
COMMENTS:									

QA/QC Summary

Method 8260 (100/200/400/1000/2000 PPB QC)

FILE NAME: SLC0704A

CLIENT: ECS(CAROLINAS) (PROJECT : PARK AVENUE)

Page 2 of 2

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptance Range	QC LIMITS				
					MS % Rec. *	MSD % Rec. *	RPD	RPD	PERCENT
									RECOVERY
1,1-Dichloroethane	0.00026	ND	96	71 - 126					
4-Methyl-2-Pentanone	0.00052	ND	90	67 - 122					
cis-1,3-Dichloropropene	0.00023	ND	94	70 - 125					
Toluene	0.00027	ND	99	65 - 139	94	100	6	13	76-125
Trans-1,3-Dichloropropene	0.00052	ND	91	65 - 131					
1,1,2-Trichloroethane	0.00041	ND	93	64 - 137					
1,1,1,2-Tetrachloroethane(PCE)	0.00026	ND	107	61 - 164					
2-Hexanone	0.00050	ND	91	63 - 118					
Bromochloromethane	0.00037	ND	96	60 - 138					
1,3-Dichloropropane	0.00033	ND	91	64 - 135					
1,2-Dibromoethane (EDB)	0.00074	ND	92	68 - 131					
Chlorobenzene	0.00029	ND	98	87 - 121	96	102	6	13	75-130
1,1,1,2-Tetrachloroethane	0.00041	ND	99	85 - 131					
1,2,4-Trichlorobenzene	0.00028	ND	101	91 - 121					
o-Xylenes	0.00056	ND	102	88 - 127					
Styrene	0.00037	ND	101	88 - 124					
Formaldehyde	0.00045	ND	92	66 - 133					
Isopropylbenzene	0.00027	ND	104	90 - 125					
Bromobenzene	0.00028	ND	96	81 - 128					
1,2,3-Trichloropropane	0.00043	ND	93	66 - 132					
Trans-1,4-Dichloro-2-butene	0.00050	ND	93	77 - 120					
n-Propylbenzene	0.00058	ND	100	88 - 123					
Chlorotoluene	0.00050	ND	99	86 - 126					
4-Chlorotoluene	0.00042	ND	98	82 - 125					
1,3,5-Trimethylbenzene	0.00054	ND	102	89 - 124					
n-Butylbenzene	0.00029	ND	101	89 - 128					
1,2,4-Trimethylbenzene	0.00056	ND	100	87 - 125					
m-Butylbenzene	0.00042	ND	103	88 - 127					
1,3-Dichlorobenzene	0.00041	ND	94	79 - 127					
1,1,2,2-Tetrachloroethane	0.00078	ND	96	72 - 128					
Isopropyltoluene	0.00048	ND	104	86 - 128					
1,4-Dichlorobenzene	0.00042	ND	98	80 - 122					
1,2-Dichlorobenzene	0.00039	ND	99	80 - 123					
n-Butylbenzene	0.00033	ND	103	84 - 127					
1,2-Dibromo-3-Chloropropane(DBCP)	0.00067	ND	93	66 - 125					
1,2,4-Trichlorobenzene	0.00025	ND	97	76 - 117					
1,2,3-Trichlorobenzene	0.00047	ND	96	79 - 119					
1,2,3-Trichlorobenzene	0.00036	ND	93	72 - 118					

COMMENTS:

QA/QC Summary

Method: 8270 (100/200 PPB QC)
FILE NAME: SLC0705-MS3
Page 1 of 2
CLIENT: ECS CAROLINAS (PROJECT: PARK AVE)

Sample ID:	706527-28				INSTUMENT: MS-3				
Extraction Method	3550								
Date Extracted	07/05/11								
Weight Extracted	30G								
Final Extract Volume	1ML								
Date Analyzed	07/05/11								
% Surrogate Recovery	95	93	81	66	85	84			
Acceptance Range	(21 - 110)	(10 - 110)	(35 - 114)	(10 - 123)	(43 - 116)	(33 - 141)			
Compound	MDL	Method	LCS %	LCS Accept. Range	MS % Rec.	MSD % Rec.	RPD	QC LIMITS	
	mg/kg	Blank	Recovery					RPD	% REC
N-Nitrosodimethylamine	0.047	ND	100	49-100					
Bis(2-chloroethyl)ether	0.066	ND	76	53-91					
Phenol	0.066	ND	90	51-97	78	78	1	42	12-110
2-Chlorophenol	0.060	ND	87	53-93	76	84	9	40	27-123
1,3-Dichlorobenzene	0.085	ND	84	51-92					
1,4-Dichlorobenzene	0.050	ND	84	50-94	75	81	8	28	36-97
1,2-Dichlorobenzene	0.047	ND	81	51-94					
Benzyl Alcohol	0.087	ND	136	45-137					
2-Methylphenol(O-CREOSOL)	0.072	ND	83	54-97					
3&4-Methylphenol(M&P CREOSOL)	0.063	ND	93	36-106					
Bis(2-chloroisopropyl)ether	0.063	ND	85	40-87					
N-nitrosodi-n-propylamine	0.057	ND	94	49-102	100	102	2	38	41-116
Hexachloroethane	0.069	ND	90	54-93					
2-Nitrophenol	0.066	ND	84	44-111					
2,4-Dimethylphenol	0.079	ND	71	57-82					
Nitrobenzene	0.072	ND	76	43-94					
Isophorone	0.079	ND	73	35-99					
Bis(2-chloroethoxy)methane	0.063	ND	69	45-87					
Benzoic Acid	0.348	ND	70	6-135					
2,4-Dichlorophenol	0.066	ND	62	41-95					
1,2,4-Trichlorobenzene	0.047	ND	66	42-93	71	72	0	28	39-98
4-Chloro-3-methylphenol	0.141	ND	80	32-113	79	79	0	42	23-97
4-Chloroaniline	0.479	ND	64	44-95					
Hexachlorobutadiene	0.057	ND	61	51-85					
2-Methylnaphthalene	0.056	ND	87	29-111					
Dibenzofuran	0.063	ND	74	42-105					
2,4,6-Trichlorophenol	0.044	ND	74	49-95					
2,4,5-Trichlorophenol	0.107	ND	76	34-124					

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

QA/QC Summary

Method: 8270 (100/200 PPB QC)

FILE NAME: SLC0705-MS3

Page 2 of 2

CLIENT: ECS CAROLINAS (PROJECT: PARK AVE)

Compound	MDL mg/kg	Method Blank	LCS % Recovery	LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
					% Rec.	% Rec.		RPD	% REC
2-Methyl-4,6-Dinitrophenol	0.170	ND	93	33-128					
4-Nitrophenol	0.232	ND	112	27-113	65	62	4	50	10-80
Hexachlorocyclopentadiene	0.079	ND	63	32-92					
2-Chloronaphthalene	0.046	ND	80	45-102					
Dimethyl phthalate	0.066	ND	79	47-106					
Acenaphthylene	0.066	ND	75	47-107					
2,6-Dinitrotoluene	0.075	ND	87	42-117					
Acenaphthene	0.057	ND	78	48-104	80	79	1	31	46-118
2,4-Dinitrotoluene	0.079	ND	76	45-111	69	71	2	38	24-96
Fluorene	0.060	ND	79	47-105					
Diethyl phthalate	0.072	ND	80	49-98					
4-Chlorophenyl phenyl ether	0.050	ND	77	46-100					
2,4-Dinitrophenol	0.188	ND	86	31-136					
Azobenzene	0.083	ND	81	45-97					
Pentachlorophenol	0.129	ND	93	41-143	60	63	6	50	9-103
N-Nitrosodiphenylamine	0.066	ND	55	28-130					
4-Bromophenyl phenyl ether	0.085	ND	80	39-115					
Hexachlorobenzene	0.069	ND	75	35-112					
Phenanthrene	0.075	ND	87	47-110					
Anthracene	0.072	ND	94	46-112					
Di-N-Butyl phthalate	0.097	ND	85	43-96					
Fluoranthene	0.085	ND	78	43-108					
Benzidine	0.048	ND	58	16-105					
Pyrene	0.038	ND	83	46-117	85	90	5	31	26-127
Benzyl butyl phthalate	0.060	ND	88	46-107					
Benzo(a)anthracene	0.050	ND	89	50-115					
3,3-Dichlorobenzidine	0.122	ND	49	20-82					
Chrysene	0.060	ND	88	44-115					
Bis(2-ethyl-hexyl)phthalate	0.066	ND	87	48-102					
Di-N-Octyl phthalate	0.079	ND	92	37-132					
Benzo(b)fluoranthene	0.122	ND	82	59-126					
Benzo(k)fluoranthene	0.110	ND	85	60-114					
Benzo(a)pyrene	0.047	ND	88	63-121					
Indeno(1,2,3-cd) pyrene	0.094	ND	78	44-144					
Dibenzo(a,h)anthracene	0.088	ND	73	9-158					
Benzo(g,h,i)perylene	0.097	ND	74	30-155					
N/A									

QA/QC Summary

Method 5035

Project: ECS Carolinas - Park Avenue

Sample ID	706525-526																		
Sample Prep Method	5030																		
Volume/Used	5 mls																		
Final Extract Volume	N/A																		
Date Analyzed	07/05/11																		
% Surrogate Recovery	114																		
Acceptance Limits	(70-130)																		
										LCS									
Compound	MDL mg/kg	Method Blank	Trip/Field Blank	LCS % Recovery	Acceptance Range	Sample	Duplicate	%RPD	Control Limits										
Gasoline	0.57	BQL	N/A	107	72-128	110	110	0	20%										

N/A = Data Not Available

QA/QC Summary

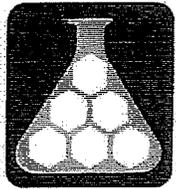
Method 3550

Project: ECS Carolinas - Park Avenue

Sample ID	706525-526										
Sample Prep Method	3550										
Volume/Used	15 g										
Final Extract Volume	10 mls										
Date Analyzed	07/05/11										
% Surrogate Recovery	116										
Acceptance Limits	(70-130)										

Compound	MDL mg/kg	Method Blank	Trip/Field Blank	LCS % Recovery	LCS			Control Limits	
					Acceptance Range	Sample	Duplicate		
Diesel	1.36	BQL	N/A	108	80-120	97	106	9	20

N/A = Data Not Available



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

Quality Control Summary Results for Project Identified as Park Avenue) (An ECS Project)

<u>Parameter</u>	<u>Prep Blank</u>	<u>ICV % Recovery</u>	<u>Spike % Recovery</u>	<u>Duplicate % RSD</u>
Arsenic, Total	BDL	91	94	1
Barium, Total	BDL	105	97	0
Cadmium, Total	BDL	100	96	1
Chromium, Total	BDL	102	98	1
Lead, Total	BDL	108	99	0
Mercury, Total	BDL	102	95	6
Selenium, Total	BDL	98	94	1
Silver, Total	BDL	96	96	2

COMMENTS:

Corresponding Sample Number: 706527-528

% = Percent

ICV = Initial Calibration Verification

QA/QC Summary

METHOD 8260/6200B(25 ML PURGE)(5/10/20/50/500/1000 PPB QC) **FILE NAME: WLC0705**

CLIENT: ECS(CAROLINAS) (PROJECT: PARK AVENUE) Page 1 of 2

Sample ID	706529-531								
Volume Used	25 ML								
Final Volume	25 ML								
Date Analyzed	07/05/11								
% Surrogate Recovery	100	105	101						
Acceptance Range	(80 - 120)	(80 - 120)	(80 - 120)						

Compound	MDL ug/L	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec. *	MSD % Rec. *	RPD	QC LIMITS	
								RPD	PERCENT RECOVERY
Dichlorodifluoromethane	0.12	ND	86	70 - 130					
Chloromethane	0.07	ND	85	70 - 130					
Vinyl Chloride	0.11	ND	90	70 - 130					
Bromomethane	0.18	ND	86	70 - 130					
Chloroethane	0.11	ND	91	70 - 130					
Trichlorofluoromethane	0.09	ND	93	70 - 130					
Acetone	1.18	ND	87	70 - 130					
Acrylonitrile	12.38	ND	102	70 - 130					
2-Butanone	0.88	ND	96	70 - 130					
1,1-Dichloroethene	0.09	ND	95	70 - 130	97	98	1	14	70-130
Methyl Iodide	0.19	ND	106	70 - 130					
Carbon Disulfide	0.45	ND	104	70 - 130					
Methylene Chloride	0.57	ND	89	70 - 130					
Trans-1,2-Dichloroethene	0.10	ND	96	70 - 130					
1,1-Dichloroethane	0.17	ND	90	70 - 130					
Isopropyl ether (IPE)	0.12	ND	95	70 - 130					
Methyl-Tert-Butyl ether (MTBE)	0.16	ND	96	70 - 130					
Vinyl Acetate	0.24	ND	88	70 - 130					
Cis-1,2-Dichloroethene	0.09	ND	92	70 - 130					
2,2-Dichloropropane	0.09	ND	88	70 - 130					
Bromochloromethane	0.12	ND	89	70 - 130					
Chloroform	0.05	ND	92	70 - 130					
1,1,1-Trichloroethane	0.12	ND	89	70 - 130					
Carbon Tetrachloride	0.10	ND	91	70 - 130					
1,1-Dichloropropene	0.12	ND	92	70 - 130					
Benzene	0.05	ND	93	70 - 130	92	94	3	11	70-130
Ethyl Acetate	0.35	ND	96	70 - 130					
1,2-Dichloroethane	0.09	ND	92	70 - 130					
Trichloroethene	0.12	ND	92	70 - 130	89	92	3	14	70-130
1,2-Dichloropropane	0.10	ND	91	70 - 130					
Dibromomethane	0.25	ND	92	70 - 130					

COMMENTS:

QA/QC Summary

METHOD 8260/6200B(25 ML PURGE)(5/10/20/50/500/1000 PPB QC)

FILE NAME: WLC0705

CLIENT: ECS(CAROLINAS) (PROJECT: PARK AVENUE)

Page 2 of 2

Compound	MDL ug/L	Method Blank	LCS % Recovery	LCS Acceptance Range	MS % Rec. *	MSD % Rec. *	RPD	QC LIMITS	
								RPD	PERCENT RECOVERY
Bromodichloromethane	0.07	ND	89	70 - 130					
4-Methyl-2-Pentanone	1.01	ND	91	70 - 130					
Cis-1,3-Dichloropropene	0.10	ND	87	70 - 130					
Toluene	0.26	ND	99	70 - 130	85	90	6	13	70-130
Trans-1,3-Dichloropropene	0.12	ND	97	70 - 130					
1,1,2-Trichloroethane	0.20	ND	98	70 - 130					
Tetrachloroethene	0.17	ND	99	70 - 130					
2-Hexanone	1.42	ND	103	70 - 130					
Dibromochloromethane	0.07	ND	95	70 - 130					
1,3-Dichloropropane	0.13	ND	98	70 - 130					
1,2-Dibromoethane (EDB)	0.15	ND	97	70 - 130					
Chlorobenzene	0.10	ND	92	70 - 130	92	94	3	13	70-130
1,1,1,2-Tetrachloroethane	0.10	ND	92	70 - 130					
Ethyl Benzene	0.07	ND	94	70 - 130					
Total Xylenes	0.29	ND	94	70 - 130					
Styrene	0.04	ND	95	70 - 130					
Bromoform	0.29	ND	95	70 - 130					
Isopropylbenzene	0.08	ND	94	70 - 130					
Bromobenzene	0.07	ND	97	70 - 130					
1,2,3-Trichloropropane	0.11	ND	101	70 - 130					
Trans-1,4-Dichloro-2-butene	0.52	ND	98	70 - 130					
N-Propylbenzene	0.08	ND	94	70 - 130					
2-Chlorotoluene	0.10	ND	95	70 - 130					
4-Chlorotoluene	0.09	ND	93	70 - 130					
1,3,5-Trimethylbenzene	0.07	ND	94	70 - 130					
Tert-Butylbenzene	0.08	ND	94	70 - 130					
1,2,4-Trimethylbenzene	0.07	ND	93	70 - 130					
Sec-Butylbenzene	0.12	ND	93	70 - 130					
1,3-Dichlorobenzene	0.12	ND	92	70 - 130					
1,1,2,2-Tetrachloroethane	0.08	ND	93	70 - 130					
p-Isopropyltoluene	0.09	ND	94	70 - 130					
1,4-Dichlorobenzene	0.08	ND	95	70 - 130					
1,2-Dichlorobenzene	0.09	ND	96	70 - 130					
N-Butylbenzene	0.10	ND	94	70 - 130					
1,2-Dibromo-3-Chloropropane(DBCP)	0.49	ND	102	70 - 130					
1,2,4-Trichlorobenzene	0.17	ND	96	70 - 130					
Naphthalene	0.18	ND	100	70 - 130					
1,2,3-Trichlorobenzene	0.18	ND	96	70 - 130					

COMMENTS:

QA/QC Summary

Method: 625 (100/200 PPB OC)
FILE NAME: WLC0706-MS3
Page 1 of 2
CLIENT: ECS CAROLINAS (PROJECT: PARK AVE)

SAMPLPE:	706529-31				INSTUMENT: MS-3				
Extraction Method	3510								
Date Extracted	07/05/11								
Weight Extracted	1L								
Final Extract Volume	1ML								
Date Analyzed	07/06/11								
% Surrogate Recovery	60	41	76	55	63	59			
Acceptance Range	(21 - 110)	(10 - 110)	(35 - 114)	(10 - 123)	(43 - 116)	(33 - 141)			
Compound	MDL	Method	LCS %	LCS Accept. Range	MS	MSD	RPD	QC LIMITS	
	UG/L	Blank	Recovery		% Rec.	% Rec.		RPD	% REC
N-Nitrosodimethylamine	0.970	ND	75	8-104					
Bis(2-chloroethyl)ether	0.430	ND	85	45-111					
Phenol	0.460	ND	43	D-76	44	44	1	42	12-110
2-Chlorophenol	0.300	ND	82	30-107	92	94	3	40	27-123
1,3-Dichlorobenzene	0.250	ND	76	48-90					
1,4-Dichlorobenzene	0.200	ND	76	50-90	91	89	2	28	36-97
1,2-Dichlorobenzene	0.100	ND	76	50-93					
Bis(2-chloroisopropyl)ether	0.380	ND	87	50-107					
N-nitrosodi-n-propylamine	0.500	ND	86	47-111	101	100	1	38	41-116
Hexachloroethane	0.220	ND	78	36-90					
2-Nitrophenol	0.670	ND	83	33-110					
2,4-Dimethylphenol	1.550	ND	77	43-100					
Nitrobenzene	0.500	ND	95	46-112					
Isophorone	0.510	ND	85	50-104					
Bis(2-chloroethoxy)methane	0.420	ND	87	49-105					
2,4-Dichlorophenol	0.540	ND	79	33-108					
1,2,4-Trichlorobenzene	0.560	ND	77	47-95	93	95	2	28	39-98
4-Chloro-3-methylphenol	1.830	ND	91	44-107	93	96	4	42	23-97
Naphthalene	0.710	ND	77	50-96					
Hexachlorobutadiene	0.770	ND	68	24-100					
2,4,6-Trichlorophenol	0.540	ND	72	22-124					
2-Methyl-4,6-Dinitrophenol	3.250	ND	86	16-115					
4-Nitrophenol	6.670	ND	39	1-69	47	50	6	50	10-80
Hexachlorocyclopentadiene	0.970	ND	47	16-85					

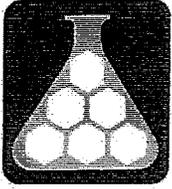
N/A = Data Not Available
*** = OUT OF RANGE**

QA/QC Summary

Method: 625 (100/200 PPB QC)
FILE NAME: WLC0706-MS3
Page 2 of 2
CLIENT: ECS CAROLINAS (PROJECT: PARK AVE)

Compound	MDL	Method	LCS %	LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
	UG/L	Blank	Recovery		% Rec.	% Rec.			
2-Chloronaphthalene	0.420	ND	77	51-100					
Dimethyl phthalate	0.400	ND	74	47-107					
Acenaphthylene	0.150	ND	77	49-100					
2,6-Dinitrotoluene	0.670	ND	82	49-106					
Acenaphthene	0.280	ND	77	48-102	97	96	2	31	46-118
2,4-Dinitrotoluene	0.670	ND	77	50-106	90	90	0	38	24-96
Diethyl phthalate	0.820	ND	78	49-107					
4-Chlorophenyl phenyl ether	0.730	ND	77	43-112					
2,4-Dinitrophenol	4.190	ND	85	D-118					
Pentachlorophenol	5.220	ND	89	15-123	78	90	15	50	9-103
N-Nitrosodiphenylamine	1.150	ND	50	35-121					
4-Bromophenyl phenyl ether	0.670	ND	76	48-107					
Hexachlorobenzene	0.390	ND	74	50-102					
Phenanthrene	0.280	ND	79	42-105					
Anthracene	0.200	ND	82	44-104					
Di-N-Butyl phthalate	0.650	ND	78	44-111					
Benzidine	3.370	ND	42	D-48					
Pyrene	1.920	ND	76	39-107	93	99	7	31	26-127
Benzyl butyl phthalate	1.220	ND	83	39-116					
Benzo(a)anthracene	0.380	ND	80	36-114					
3,3-Dichlorobenzidine	5.050	ND	39	6-52					
Chrysene	0.700	ND	75	45-99					
Bis(2-ethyl-hexyl)phthalate	1.140	ND	80	30-134					
Di-N-Octyl phthalate	0.740	ND	89	37-131					
Benzo(b)fluoranthene	0.770	ND	84	49-107					
Benzo(k)fluoranthene	0.600	ND	74	37-112					
Benzo(a)pyrene	0.430	ND	86	49-105					
Indeno(1,2,3-cd) pyrene	1.210	ND	69	38-122					
Dibenzo(a,h)anthracene	1.680	ND	59	43-118					
Benzo(g,h,i)perylene	1.780	ND	65	42-119					

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



RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

Quality Control Summary Results for Project Identified as Park Avenue (An ECS Project)

<u>Parameter</u>	<u>Prep Blank</u>	<u>ICV % Recovery</u>	<u>Spike % Recovery</u>	<u>Spike Duplicate % Recovery</u>
Arsenic, Total	BDL	91	94	3
Barium, Total	BDL	98	103	2
Cadmium, Total	BDL	92	94	3
Chromium, Total	BDL	94	98	2
Lead, Total	BDL	101	100	2
Mercury, Total	BDL	102	106	0
Selenium, Total	BDL	92	94	2
Silver, Total	BDL	90	98	3

COMMENTS:

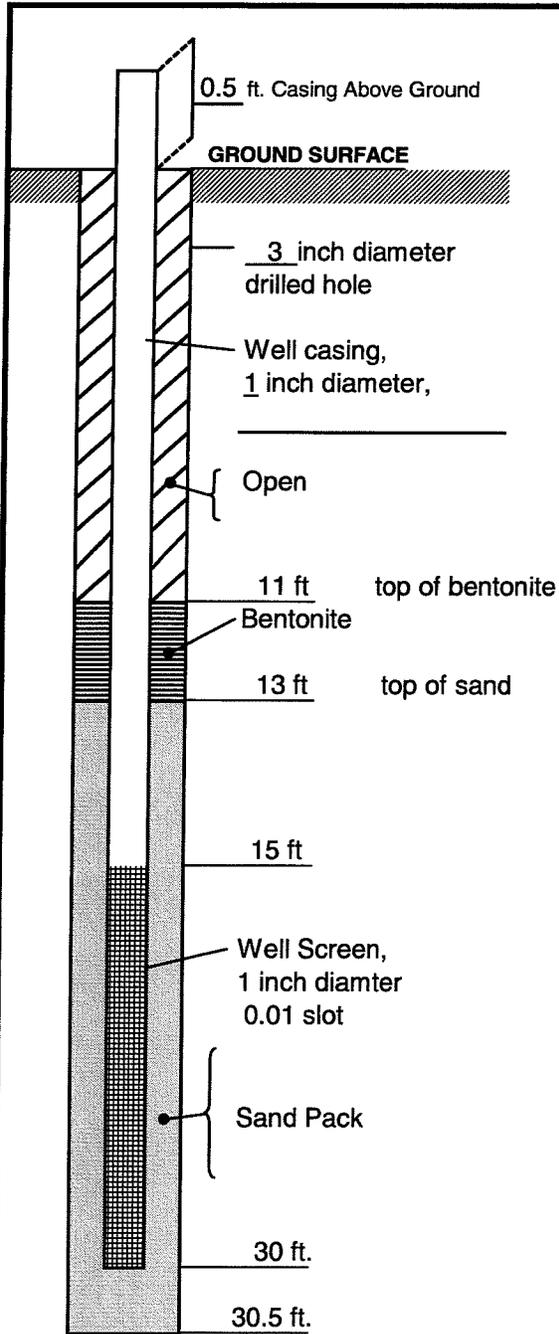
Corresponding Sample Numbers: 706529-31

% = Percent

ICV = Initial Calibration Verification

APPENDIX B

TEMPORARY MONITORING WELL CONSTRUCTION DIAGRAM



All Measuring Points are from the Ground Surface Unless Otherwise Noted.

Project	Former Annedeem Hoisery Burlington, NC
Owner	
Well No.	TW-2
Location	717 North Park Avenue
MD Coordinators	
State Permit No.	Temporary Well
Topography Setting	
Ground Elevation	
Drilled By	3D, LLC
Drilling Started	29-Jun-11
Drilling Completed	29-Jun-11
Method of Drilling	Geoprobe
Type of Rig	Geoprobe

MONITORING WELL DATA

Well No.	TW-2
Hole Diameter	3 inches
Hole Depth	30 ft.
Casing Diameter	1 inch
Casing Length	15 ft.
Screen Diameter	1 inch
Screen Slot	0.01
Screen Type	slot
Surface Elevation	No Data
Screen Top El.	No Data
Screen Bottom El.	No Data
Well Status	abandoned

REMARKS

Static Water Level = 16.26 feet below top of casing

