



June 7, 2016

North Carolina Department of Environment Quality
Division of Waste Management – DSCA Program
1646 Mail Services Center
Raleigh, NC 27699-1646

Att: Mr. Billy Meyer
DSCA Project Manager

Re: April 2016 Updated Assessment Report – Pore Water/Surface Water Sampling
Former Douglas Furrier Cleaners DSCA Site ID DC600043
1200 Charlottetown Ave.
Charlotte, Mecklenburg County, North Carolina

Dear Mr. Meyer:

URS Corporation – North Carolina (URS) is pleased to provide the attached *April 2016 Updated Assessment Report – Pore Water/Surface Water Sampling* for the Douglas Furrier Cleaners facility (site) located at 1200 Charlottetown Avenue in Charlotte, Mecklenburg County, North Carolina. This report serves as an update to the following assessment/analytical reports that have been submitted to DSCA:

- *Prioritization Assessment Report*, submitted to DSCA by URS on September 2, 2010, which documents initial Prioritization Assessment activities completed at the site;
- *January 2014 Updated Assessment Report*, submitted to DSCA by URS on March 10, 2014, to document additional monitoring well installation and groundwater assessment activities completed at the site as part of further plume delineation;
- *November-December 2014 Updated Assessment Report*, submitted to DSCA by URS on February 14, 2015 to document additional monitoring well installation groundwater and soil gas assessment activities completed at the site; and,
- *November 2015 Updated Assessment Report*, submitted to DSCA by URS on January 11, 2016 to document additional monitoring well installation and sampling events associated with that installation.

Specifically, this report includes documentation pertaining to the collection of a Henry Push Point (pore water) and surface water sample to further assess the lateral extent of offsite groundwater impacts. These activities were conducted in accordance with SLAW Change Order (CO) 007A dated April 7, 2016, and included:

- On March 24, 2016, URS collected a surface water sample, SW-01, from Little Sugar Creek; and,
- On April 6, 2016, URS collected a pore water sample, PPS-1, using a Henry Push Point sampler adjacent to Little Sugar Creek.



Mr. Billy Meyer
Douglas Furrier Cleaners - DC600043
June 7, 2016
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The location of these samples in respect to existing site conditions is included as **Attachment 7 of the Analytical Data Tables**. This updated assessment report includes the following: updated Analytical Data Tables, related figures and laboratory analytical reports.

If you have any questions or require additional information, please do not hesitate to call either Rob MacWilliams or Dhara Trivedi at 704-522-0330.

Sincerely,

URS CORPORATION-NORTH CAROLINA

A handwritten signature in blue ink that reads "Dhara Trivedi".

Dhara Trivedi
Project Manager

A handwritten signature in blue ink that reads "Robert H. MacWilliams".

Robert H. MacWilliams, PG
Program Manager

**Analytical Data Tables
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program**

Facility Name:	Former Douglas-Furrier Cleaners
	1200 Charlottetown Avenue, Charlotte, NC
DSCA ID No.:	DC600043
Submittal Date:	5/27/2016
Prepared By:	URS Corporation - North Carolina
	6000 Fairview Road, Suite 200, Charlotte, NC 28210

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Att. 1	Site map showing location(s) of soil boring(s).	<input type="checkbox"/>
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 3	Soil isoconcentration maps.	<input type="checkbox"/>
Att. 4	Site map showing location(s) of monitoring well(s).	<input checked="" type="checkbox"/>
Att. 5	Well completion diagrams and records of construction submitted to state.	<input type="checkbox"/>
Att. 6	Groundwater gradient map for each sampling event.	<input type="checkbox"/>
Att. 7	PCE concentration map showing the concentration at each sampling point and isoconcentration map. However, if there are significant plumes for other dry-cleaning contaminants, contaminant concentration maps for each chemical of concern should be included.	<input checked="" type="checkbox"/>
Att. 8	Groundwater concentration trend plots.	<input type="checkbox"/>
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	<input type="checkbox"/>
Att. 10	Surface water concentration map showing the concentration at each sampling point (if applicable).	<input type="checkbox"/>
Att. 11	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site (if applicable).	<input type="checkbox"/>
Att. 12	Site map showing location(s) of monitoring well(s) for natural attenuation parameters.	<input type="checkbox"/>
Att. 13	Site map showing location(s) of indoor air, outdoor air, or soil gas samples.	<input type="checkbox"/>
Att. 14	Air and soil gas concentration map showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 15	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	<input checked="" type="checkbox"/>
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<p>Note:</p> <p>1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.</p>		

Table 1: Site Chronology**ADT 1****DSCA ID No.: DC600043****Chronology of Events**

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
8/5/1997	Limited Phase II Environmental Site Assessment of the subject site completed by Katawba Environmental Inc.
8/12/1997	Limited Phase II Environmental Site Assessment Report of the subject site submitted by Katawba Environmental Inc.
12/20/2006	Limited Phase II Environmental Site Assessment Report of the subject site submitted by Enviro Probe Inc.
6/5/2006	URS received historical files for the site and surrounding properties.
6/16/2006	Limited Phase I Environmental Site Assessment Report on the adjacent Belk Building Expansion submitted by Zapata Engineering
8/16/2006	Limited Phase II Environmental Site Assessment on the adjacent Belk Building Expansion completed by Zapata Engineering.
9/27/2006	Limited Phase II Environmental Site Assessment Report on the adjacent Belk Building Expansion submitted by Zapata Engineering.
5/20/2008	Scope of work discussed in a site meeting between URS, DSCA, and CPCC.
5/22/2008	State Lead Authorization for Work (SLAW) received by URS for Prioritization Assessment Work.
5/24/08-5/26/08	URS conducted additional assessment activities at the site to further delineate the groundwater impacts to Tier I RBSLs.
6/10/2008	URS submits groundwater monitoring proposal to DSCA.
12/15/2008	Site petitioned for certification into DSCA Program.
1/23/2009	Site accepted into the DSCA program.
5/14/09-5/21/09	URS conducted additional assessment activities at the site to further delineate the groundwater impacts to Tier I RBSLs.

DSCA ID No.: DC600043

Chronology of Events

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
7/21/2009	On July 21, 2009, URS collected depth to water measurements from all monitoring wells at the site. The groundwater elevation data is included in the attached Analytical Data Tables.
12/14/2009	URS collected one subslab vapor sample (SSV-1) from beneath the Douglas Furrier and Cleaners facility as well as one indoor air sample and one ambient/background air sample at the Douglas Furrier and Cleaners facility. The indoor air sample was collected inside the former dry-cleaning facility.
12/14-12/18/2009 & 1/8/2010	On December 14-18, 2009 and January 8, 2010, URS observed the installation of five Type II monitoring wells and one Type III monitoring well by Geologic Exploration Inc. (Geologic) to evaluate groundwater quality beneath the adjacent offsite properties. Additionally, URS advanced a total of 5 soil borings and 3 soil gas samples in the area the location of the former drycleaner building using a hand auger and concrete coring to evaluate potential contaminant source areas based on historic facility operations and results from previous site investigations.
1/8/2010	On January 8, 2010 URS provided oversight for the installation of monitoring well MW-7 by GEX.
6/15/2010	On June 15, 2010 URS performed indoor and ambient air sampling at 1200 Charlottetown Avenue.
9/30/2011	On September 30, 2011 URS performed soil gas sampling at SG-1, SG-2, and SG-3.
7/18/2013	URS conducted soil gas sampling at 1214 and 1224 Charlottetowne Avenue, Charlotte, NC. URS also performed groundwater sampling on all monitoring wells associated with the site.
12/12/2013 12/16/2013	- URS installed two Type II monitoring wells (MW-12 and MW-14) and one Type II nested monitoring well (MW-13A/B). In addition, URS performed soil gas sampling SG-8 through SG-12.
5/23/2014	URS collected three (3) subslab vapor samples (SSV-CATS010, SSV-CATS011, and SSV-CATS012), three (3) indoor air samples (IA-CATS010, IA-CATS011, and IA-CATS012) and one (1) soil gas sample (SG-MW11) at the Center for Arts & Technology Building at CPCC.
11/21-11/24/14	URS installed one (1) Type II monitoring well (MW-15), collected one (1) soil gas sample (SG-9 Shallow) and five (5) ground water samples (MW-11, MW-12, MW-13A, MW-13B, and MW-15).
11/6/2015	URS installed one (1) Type II monitoring well (MW-16) and collected one (1) ground water sample (MW-16).
11/12/2015	Based on the results of the 11/6/2015 ground water sample at (MW-16) URS collected one (1) confirmatory ground water sample (MW-16).
3/24/2016	URS collected one surface water sample (SW-01) from Little Sugar Creek.

Table 1: Site Chronology	ADT 1
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DSCA ID No.: DC600043

Chronology of Events

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
4/6/2016	URS Installed one Henry Push Point (PPS-1) along Little Sugar Creek and collected one sediment pore water sample (PPS-1).

Table 8: Analytical Data for Groundwater

ADT 8

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Carbon tetrachloride	Chloroform	1,2,4-Trimethylbenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene
		[mg/L]																			
TMW-01	05/26/08	< 0.00025	0.003	< 0.0003	< 0.00021	< 0.00024	0.0274	< 0.00026	< 0.00049	0.0011	< 0.00062	< 0.00066	0.00029	0.00032	0.00056	0.00012	0.00025	0.00057 J	< 0.00031	< 0.00027	< 0.00036
TMW-02	05/26/08	0.03	0.157	0.0122	< 0.00021	< 0.00024	1.91	0.00082 j	0.0021	0.261	0.0017	0.001 j	0.00029	0.00032	0.00056	0.0225	0.00025	< 0.00014	0.00094 J	< 0.00027	0.0025
TMW-03	05/26/08	< 0.00025	0.0015	< 0.0003	< 0.00021	< 0.00024	0.152	< 0.00026	< 0.00049	0.0045	0.00062	0.00066	0.00029	0.00032	0.00056	0.00012	0.00025	0.00014	0.00031	0.00027	0.00036
TMW-04	05/26/08	0.0134	0.116	< 0.0003	< 0.00021	0.0022	4.72	0.00032 J	0.00063 J	0.158	0.00089 J	0.00066	0.003	0.00032	0.00056	0.0265	0.00025	< 0.00014	< 0.00031	0.00092 J	< 0.00036
MW-1	05/21/09	<0.001	0.0017	<0.001	<0.001	<0.001	0.0529	<0.001	<0.001	0.002	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0035	<0.001	<0.001	<0.001
MW-2	05/21/09	<0.001	0.0002 J	<0.001	<0.001	<0.001	0.0461	<0.001	<0.001	0.00058 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.00046 J	0.00037 J	<0.001	<0.001	<0.001
MW-3	05/21/09	<0.001	<0.001	<0.001	<0.001	0.00024 J	0.0491	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.00076 J	<0.001	<0.001	<0.001
MW-4	05/21/09	0.00085 J	0.0193	0.0281	<0.001	0.271	0.659	0.00062 J	<0.001	0.0056	<0.001	0.206	<0.001	<0.001	<0.001	0.196	<0.001	0.0235	1.14	0.0042	<0.001
MW-5	05/21/09	<0.001	<0.001	<0.001	<0.001	0.00027 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	05/21/09	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.00078 J	<0.001	<0.001	<0.001
MW-7	1/8/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.00085 J	<0.001	<0.001	<0.001
MW-8	12/16/09	<0.001	0.0099	<0.001	<0.001	<0.001	0.16	0.0022	<0.001	0.0039	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0072	<0.001	0.0032	<0.001
MW-9	12/16/09	<0.001	0.003	0.003	<0.001	<0.001	0.0116	0.0032	<0.001	0.0027	<0.001	0.0094	<0.001	<0.001	<0.001	<0.001	<0.001	0.0078	0.0026	<0.001	<0.001
MW-10	12/16/09	<0.001	0.0164	0.0032	0.0021	<0.001	0.0841	0.0031	<0.001	0.0093	<0.001	0.0106	<0.001	<0.001	<0.001	<0.001	<0.001	0.0108	0.003	<0.001	<0.001
MW-11	12/16/09	<0.001	0.0109	0.0031	<0.001	<0.001	0.0444	0.0029	<0.001	0.0058	<0.001	0.0101	<0.001	<0.001	<0.001	<0.001	<0.001	0.0082	0.0028	<0.001	<0.001

Table 8: Analytical Data for Groundwater

ADT 8

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Carbon tetrachloride	Chloroform	1,2,4-Trimethylbenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene
		[mg/L]																			
DMW-1	12/16/09	<0.001	0.0103	0.0032	<0.001	0.0085	0.0244	0.0028	<0.001	0.0033	<0.001	0.0113	<0.001	<0.001	<0.001	0.0033	<0.001	0.0037	0.034	<0.001	0.0134
MW-1	7/19/13	<0.001	0.0013	<0.001	<0.001	<0.001	0.0532	<0.001	<0.001	0.0008 8 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014	<0.001	<0.001	<0.001
MW-2	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	0.0937	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0005 8 J	0.0005 4 J	<0.001	<0.001	<0.001
MW-3	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	0.0116	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0007 1 J	<0.001	<0.001	<0.001
MW-4	7/19/13	0.0055	0.186	0.0773	0.0031	0.402	0.458	<0.001	<0.001	0.0122	<0.001	0.241	<0.001	<0.001	0.0009 5 J	0.0525	<0.001	0.0049	1.65	0.0161	0.513
MW-5	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	7/19/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	7/19/13	<0.001	0.0164	<0.001	<0.001	<0.001	0.0886	<0.001	<0.001	0.0033	<0.001	<0.002	<0.001	<0.001	<0.001	0.0002 0 J	<0.001	0.0159	<0.001	0.0005 4 J	<0.001
MW-9	7/19/13	<0.001	0.0027	<0.001	<0.001	<0.001	0.0257	<0.001	<0.001	0.0013	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0015	0.0008 8 J	<0.001	<0.001	<0.001
MW-10	7/19/13	<0.001	0.0129	<0.001	<0.001	<0.001	0.0644	<0.001	<0.001	0.0066	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0055	<0.001	<0.001	<0.001
MW-11	7/19/13	<0.001	0.0108	<0.001	<0.001	<0.001	0.0364	<0.001	<0.001	0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0045	<0.001	<0.001	<0.001
DMW-1	7/19/13	<0.001	0.150	<0.001	<0.001	<0.001	0.1560	<0.001	0.0009 4 J	0.029	<0.001	0.0101	<0.001	0.0009 4 J	<0.001	<0.001	<0.001	0.0048	<0.001	0.0002 9 J	0.0004 1 J
MW-12	12/16/13	<0.001	0.0004 7 J	<0.001	<0.001	<0.001	0.0223	0.0006 1 J	<0.001	0.0007 0 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0054	<0.001	<0.001	<0.001
MW-13A	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-13B	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017	<0.001	<0.001	<0.001
MW-14	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0092	<0.001	<0.001	<0.001

Table 8: Analytical Data for Groundwater

ADT 8

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Carbon tetrachloride	Chloroform	1,2,4-Trimethylbenzene	1,2-Dichloropropane	1,3,5-Trimethylbenzene
		[mg/L]																			
MW-11	11/21/14	<0.001	0.0164	<0.001	<0.001	<0.001	0.0433	<0.001	<0.001	0.0056	<0.001	<0.002	<0.001	<0.001	<0.001	0.0003 4 J	<0.001	0.003	<0.001	<0.001	0.0004 5 J
MW-12	11/21/14	<0.001	0.0007 2 J	<0.001	<0.001	<0.001	0.0262	<0.001	<0.001	0.0007 1 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001
MW-13A	11/21/14	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-13B	11/21/14	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001
MW-15	11/21/14	0.184	0.0082	0.0022	0.0002 9 J	<0.001	0.0163	0.0152	<0.001	0.0033	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0029	<0.001	<0.001	<0.001
MW-16	11/6/15	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-16	11/12/15	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
PPS-1	4/6/16	NA	<0.001	NA	NA	NA	<0.001	NA	<0.001	<0.001	0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 8(1): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(1)

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Dichlorodifluoromethane	Isopropylbenzene (Cumene)	Diisopropyl ether	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane	1,4-Dichlorobenzene	2-Hexanone	Bromodichloromethane	Chloromethane	Dibromochloromethane	m&p-Xylene	o-Xylene	n-Butylbenzene	n-Propylbenzene	Acetone	2-Butanone (MEK)	1,2,3-Trichloropropane	
		[mg/L]																				
TMW-01	05/26/08	< 0.0002 1	< 0.0004	< 0.0001 2	< 0.0003 1	< 0.0003 8	0.0005 1 J	< 0.0002 6	< 0.0002	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
TMW-02	05/26/08	< 0.0002 1	0.011	0.0295	0.0008 1 J	0.0041	< 0.0004	0.0003 4 J	< 0.0002	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
TMW-03	05/26/08	< 0.0002 1	< 0.0004	< 0.0001 2	< 0.0003 1	< 0.0003 8	< 0.0004	< 0.0002 6	0.0002 1 J	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
TMW-04	05/26/08	0.0002 4 J	0.0015	0.0777	< 0.0003 1	< 0.0003 8	< 0.0004	< 0.0002 6	< 0.0002	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-1	05/21/09	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.0008 7 J	0.0006 3 J	0.0002 3 J	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-2	05/21/09	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0015	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-3	05/21/09	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-4	05/21/09	<0.001	0.0787	NA	<0.001	<0.001	<0.001	<0.001	<0.001	0.0004 4 J	<0.005	<0.001	<0.001	<0.001	0.0591	0.147	0.034	0.0924	<0.025	<0.005	<0.001	
MW-5	05/21/09	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-6	05/21/09	<0.001	<0.001	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008 6 J	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-7	1/8/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-8	12/16/09	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-9	12/16/09	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.0051	<0.001	0.0049	0.0061	0.0033	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-10	12/16/09	<0.001	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	0.0069	0.0037	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-11	12/16/09	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	0.0065	0.0035	0.0026	<0.001	<0.001	<0.025	<0.005	<0.001

Table 8(1): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(1)

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Dichlorodifluoromethane	Isopropylbenzene (Cumene)	Diisopropyl ether	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane	1,4-Dichlorobenzene	2-Hexanone	Bromodichloromethane	Chloromethane	Dibromochloromethane	m&p-Xylene	o-Xylene	n-Butylbenzene	n-Propylbenzene	Acetone	2-Butanone (MEK)	1,2,3-Trichloropropane
		[mg/L]																			
DMW-1	12/16/09	<0.001	0.0043	<0.001	0.0074	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.0034	<0.001	<0.001	0.0069	0.0044	0.005	0.0047	<0.025	<0.005	<0.001
MW-1	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0001 1 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-2	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-3	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0001 1 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-4	7/19/13	<0.001	0.0958	<0.001	<0.001	0.0398	<0.001	<0.001	<0.001	0.0005 6 J	<0.005	<0.001	<0.001	<0.001	0.130	0.112	<0.001	0.144	<0.025	<0.005	<0.001
MW-5	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0001 3 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-6	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0008 6 J	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-7	7/19/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001
MW-8	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0001 3 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-9	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.0016 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-10	7/19/13	<0.001	<0.001	0.0001 3 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-11	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
DMW-1	7/19/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-12	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	0.0116 J	<0.005	<0.001
MW-13A	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-13B	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-14	12/16/13	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	0.0015 J	<0.001

Table 8(1): Analytical Data for Groundwater (User Specified Chemicals)

ADT 8(1)

DSCA ID No.: DC600043

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	Dichlorodifluoromethane	Isopropylbenzene (Cumene)	Diisopropyl ether	p-Isopropyltoluene	sec-Butylbenzene	tert-Butylbenzene	trans-1,3-Dichloropropene	Trichlorofluoromethane	1,4-Dichlorobenzene	2-Hexanone	Bromodichloromethane	Chloromethane	Dibromochloromethane	m&p-Xylene	o-Xylene	n-Butylbenzene	n-Propylbenzene	Acetone	2-Butanone (MEK)	1,2,3-Trichloropropane
		[mg/L]																			
MW-11	11/21/14	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0009 5 J	<0.001	<0.005	<0.001	0.0006 6 J	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	0.0036
MW-12	11/21/14	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-13A	11/21/14	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-13B	11/21/14	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-15	11/21/14	<0.001	0.0011	<0.001	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	0.005	<0.001	0.002	0.0003 1 J	<0.001	<0.001	0.426	0.0083	<0.001
MW-16	11/6/15	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
MW-16	11/12/15	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.025	<0.005	<0.001
PPS-1	4/6/16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**ATTACHMENT 4
MONITORING WELL LOCATION MAP**



LEGEND

-  Monitoring Well Location
-  MW-1
-  Deep Monitoring
-  DMW-1
-  Nested Type II/Type III Monitoring Well
-  MW-13A/B
-  Pore Water Sample Location
-  PPS-1
-  Surface Water Sample Location
-  SW-01
-  Exposure Unit Boundary



Groundwater Location Map
 Douglas Furrier
 1200 Charlottetown Avenue
 Charlotte, NC
 DSCA Site DC600043

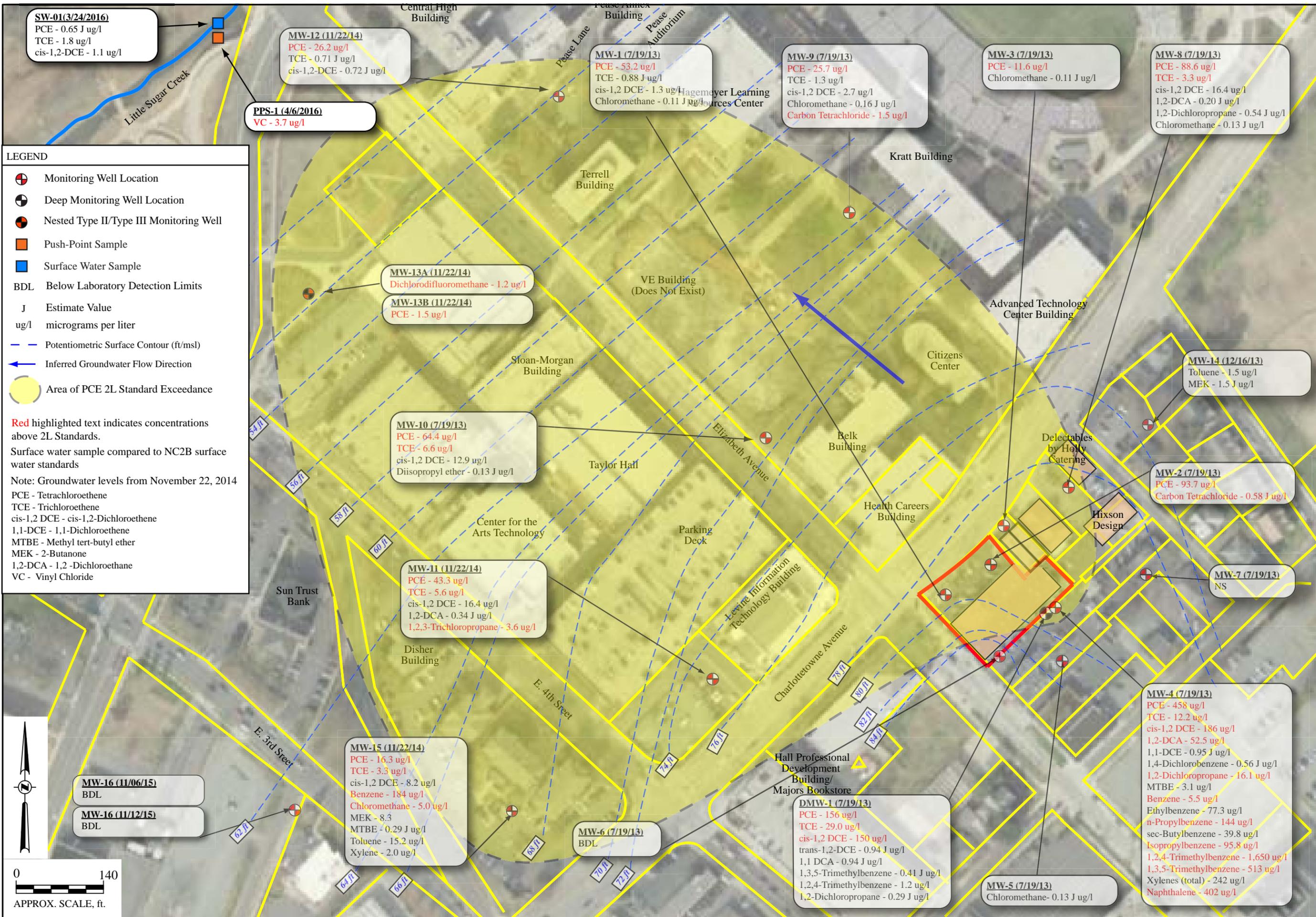
URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063



DRAWN BY:	MPS - 03/04/16
CHECKED BY:	RM - 03/04/16
PROJECT NO.:	60400750

SHEET:
 Att. 4

**ATTACHMENT 7
PCE CONCENTRATION MAP**



SW-01(3/24/2016)
 PCE - 0.65 J ug/l
 TCE - 1.8 ug/l
 cis-1,2-DCE - 1.1 ug/l

MW-12 (11/22/14)
 PCE - 26.2 ug/l
 TCE - 0.71 J ug/l
 cis-1,2-DCE - 0.72 J ug/l

MW-1 (7/19/13)
 PCE - 53.2 ug/l
 TCE - 0.88 J ug/l
 cis-1,2 DCE - 1.3 ug/l
 Chloromethane - 0.11 J ug/l

MW-9 (7/19/13)
 PCE - 25.7 ug/l
 TCE - 1.3 ug/l
 cis-1,2 DCE - 2.7 ug/l
 Chloromethane - 0.16 J ug/l
 Carbon Tetrachloride - 1.5 ug/l

MW-3 (7/19/13)
 PCE - 11.6 ug/l
 Chloromethane - 0.11 J ug/l

MW-8 (7/19/13)
 PCE - 88.6 ug/l
 TCE - 3.3 ug/l
 cis-1,2 DCE - 16.4 ug/l
 1,2-DCA - 0.20 J ug/l
 1,2-Dichloropropane - 0.54 J ug/l
 Chloromethane - 0.13 J ug/l

PPS-1 (4/6/2016)
 VC - 3.7 ug/l

MW-13A (11/22/14)
 Dichlorodifluoromethane - 1.2 ug/l

MW-13B (11/22/14)
 PCE - 1.5 ug/l

MW-10 (7/19/13)
 PCE - 64.4 ug/l
 TCE - 6.6 ug/l
 cis-1,2 DCE - 12.9 ug/l
 Diisopropyl ether - 0.13 J ug/l

MW-11 (11/22/14)
 PCE - 43.3 ug/l
 TCE - 5.6 ug/l
 cis-1,2 DCE - 16.4 ug/l
 1,2-DCA - 0.34 J ug/l
 1,2,3-Trichloropropane - 3.6 ug/l

MW-15 (11/22/14)
 PCE - 16.3 ug/l
 TCE - 3.3 ug/l
 cis-1,2 DCE - 8.2 ug/l
 Benzene - 184 ug/l
 Chloromethane - 5.0 ug/l
 MEK - 8.3
 MTBE - 0.29 J ug/l
 Toluene - 15.2 ug/l
 Xylene - 2.0 ug/l

MW-16 (11/06/15)
 BDL

MW-16 (11/12/15)
 BDL

MW-6 (7/19/13)
 BDL

DMW-1 (7/19/13)
 PCE - 156 ug/l
 TCE - 29.0 ug/l
 cis-1,2 DCE - 150 ug/l
 trans-1,2-DCE - 0.94 J ug/l
 1,1 DCA - 0.94 J ug/l
 1,3,5-Trimethylbenzene - 0.41 J ug/l
 1,2,4-Trimethylbenzene - 1.2 ug/l
 1,2-Dichloropropane - 0.29 J ug/l

MW-5 (7/19/13)
 Chloromethane - 0.13 J ug/l

MW-4 (7/19/13)
 PCE - 458 ug/l
 TCE - 12.2 ug/l
 cis-1,2 DCE - 186 ug/l
 1,2-DCA - 52.5 ug/l
 1,1-DCE - 0.95 J ug/l
 1,4-Dichlorobenzene - 0.56 J ug/l
 1,2-Dichloropropane - 16.1 ug/l
 MTBE - 3.1 ug/l
 Benzene - 5.5 ug/l
 Ethylbenzene - 77.3 ug/l
 n-Propylbenzene - 144 ug/l
 sec-Butylbenzene - 39.8 ug/l
 Isopropylbenzene - 95.8 ug/l
 1,2,4-Trimethylbenzene - 1,650 ug/l
 1,3,5-Trimethylbenzene - 513 ug/l
 Xylenes (total) - 242 ug/l
 Naphthalene - 402 ug/l

LEGEND

- Monitoring Well Location
- Deep Monitoring Well Location
- Nested Type II/Type III Monitoring Well
- Push-Point Sample
- Surface Water Sample
- BDL Below Laboratory Detection Limits
- J Estimate Value
- ug/l micrograms per liter
- - - Potentiometric Surface Contour (ft/msl)
- Inferred Groundwater Flow Direction
- Area of PCE 2L Standard Exceedance

Red highlighted text indicates concentrations above 2L Standards.

Surface water sample compared to NC2B surface water standards

Note: Groundwater levels from November 22, 2014

PCE - Tetrachloroethene
 TCE - Trichloroethene
 cis-1,2 DCE - cis-1,2-Dichloroethene
 1,1-DCE - 1,1-Dichloroethene
 MTBE - Methyl tert-butyl ether
 MEK - 2-Butanone
 1,2-DCA - 1,2 -Dichloroethane
 VC - Vinyl Chloride



Groundwater and Surface Water Quality Map
 Douglas Furrier
 1200 Charlottetown Avenue
 Charlotte, NC
 DSCA Site DC600043

URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063



DRAWN BY: ETR 5/5/16
 CHECKED BY: JW 5/5/16
 PROJECT NO.: 60400750

SHEET: ATT. 7

**ATTACHMENT 15
ANALYTICAL DATA**

April 12, 2016

Ms. Dhara Trivedi
AECOM
PO Box 203970
Austin, TX 78720

RE: Project: DOUGLAS FURRIER
Pace Project No.: 92292943

Dear Ms. Trivedi:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

cc: NC Chemists, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DOUGLAS FURRIER
Pace Project No.: 92292943

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92292943001	PPS-1	Water	04/06/16 13:35	04/07/16 13:02

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92292943001	PPS-1	EPA 8260	NB	8	PASI-C

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: DOUGLAS FURRIER
Pace Project No.: 92292943

Method: EPA 8260
Description: 8260 MSV Low Level
Client: AECOM, Charlotte
Date: April 12, 2016

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

Sample: PPS-1 **Lab ID: 92292943001** Collected: 04/06/16 13:35 Received: 04/07/16 13:02 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		04/11/16 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		04/11/16 18:34	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/11/16 18:34	127-18-4	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/11/16 18:34	79-01-6	
Vinyl chloride	3.7	ug/L	1.0	0.62	1		04/11/16 18:34	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/11/16 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/11/16 18:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/11/16 18:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

QC Batch: MSV/36320

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92292943001

METHOD BLANK: 1706818

Matrix: Water

Associated Lab Samples: 92292943001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	04/11/16 16:51	
Tetrachloroethene	ug/L	ND	1.0	0.46	04/11/16 16:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	04/11/16 16:51	
Trichloroethene	ug/L	ND	1.0	0.47	04/11/16 16:51	
Vinyl chloride	ug/L	ND	1.0	0.62	04/11/16 16:51	
1,2-Dichloroethane-d4 (S)	%	104	70-130		04/11/16 16:51	
4-Bromofluorobenzene (S)	%	102	70-130		04/11/16 16:51	
Toluene-d8 (S)	%	101	70-130		04/11/16 16:51	

LABORATORY CONTROL SAMPLE: 1706819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	51.8	104	70-131	
Tetrachloroethene	ug/L	50	51.2	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
Vinyl chloride	ug/L	50	55.4	111	50-150	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			103	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DOUGLAS FURRIER

Pace Project No.: 92292943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92292943001	PPS-1	EPA 8260	MSV/36320		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: URS Corp

Project #:

WO#: 92292943



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: TH 4-7-16

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: T1505 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: 0.0°C Cooler Temp Corrected (°C): 1.8

Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

		COMMENTS:
Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WI</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples checked for dechlorination	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: [Signature]

Date: 4/7/16

Project Manager SRF Review: [Signature]

Date: 4/8/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

April 04, 2016

Ms. Dhara Trivedi
AECOM
PO Box 203970
Austin, TX 78720

RE: Project: DOUGLAS FURRIER DC600043
Pace Project No.: 92291351

Dear Ms. Trivedi:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

cc: NC Chemists, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92291351001	SW-01	Water	03/24/16 10:15	03/24/16 13:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92291351001	SW-01	EPA 8260	NB	8	PASI-C

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: DOUGLAS FURRIER DC600043
Pace Project No.: 92291351

Method: EPA 8260
Description: 8260 MSV Low Level
Client: AECOM, Charlotte
Date: April 04, 2016

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

Sample: SW-01 **Lab ID: 92291351001** Collected: 03/24/16 10:15 Received: 03/24/16 13:37 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.19	1		03/26/16 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/26/16 18:14	156-60-5	
Tetrachloroethene	0.65J	ug/L	1.0	0.46	1		03/26/16 18:14	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.47	1		03/26/16 18:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/26/16 18:14	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/16 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/16 18:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/16 18:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

QC Batch: MSV/36132

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92291351001

METHOD BLANK: 1695528

Matrix: Water

Associated Lab Samples: 92291351001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	03/26/16 16:19	
Tetrachloroethene	ug/L	ND	1.0	0.46	03/26/16 16:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	03/26/16 16:19	
Trichloroethene	ug/L	ND	1.0	0.47	03/26/16 16:19	
Vinyl chloride	ug/L	ND	1.0	0.62	03/26/16 16:19	
1,2-Dichloroethane-d4 (S)	%	98	70-130		03/26/16 16:19	
4-Bromofluorobenzene (S)	%	97	70-130		03/26/16 16:19	
Toluene-d8 (S)	%	99	70-130		03/26/16 16:19	

LABORATORY CONTROL SAMPLE: 1695529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-131	
Tetrachloroethene	ug/L	50	52.3	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	70-130	
Trichloroethene	ug/L	50	48.9	98	70-130	
Vinyl chloride	ug/L	50	54.7	109	50-150	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DOUGLAS FURRIER DC600043

Pace Project No.: 92291351

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92291351001	SW-01	EPA 8260	MSV/36132		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name:

Aecom

Project #:

WO# : 92291351



Courier: Fed-Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: TH 3-24-16

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: T1505 _____ Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: 0.0°C Cooler Temp Corrected (°C): 3.4 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Samples checked for dechlorination	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: NMG Date: 3/24/16

Project Manager SRF Review: NMG Date: 3/24/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: **ACCOM** Report To: _____ Copy To: _____
 Address: **6000 Fairview rd. Suite 200**
 Email To: **Charlotte, NC 28215** Purchase Order No.: _____
 Phone: **704-522-0330** Fax: **704-522-0063** Project Name: **Douglas Furrer DC600043**
 Requested Due Date/AT: _____ Project Number: **60488265** Address: _____
 Reference: _____
 Pace Project Manager: _____
 Pace Profile #: **3481-1**

REGULATORY AGENCY: _____
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 Site Location STATE: **NC**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol			
1	SU-01	DW WT WW P SL OL WIP AR TS OT														
2	SU-02**															
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS	REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Analyze for PCBs, TCs, I, 2 DCE, Trans 1, 2 DCE, Vinyl Chloride only. Hold SU-02 until results for SU-01 are obtained.	Matthews Grinher/ACCOM	3/24/16	1200	James P. Jones	3-24-16	1337	Temp in °C: 34 Received on Ice (Y/N): Y Custody Sealed Cooler (Y/N): N Samples Intact (Y/N): Y

ORIGINAL

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: **Matthews Grinher**
 SIGNATURE of SAMPLER: *Matthews Grinher*
 DATE Signed (MM/DD/YY): **03/24/2016**