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July 20, 2016

North Carolina Department of Environmental Quality
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1649

Attn: Ms. Elizabeth Werner

Re: Subsurface Investigation
Permit No.: 6004-INDUS (Landfill No. 1)
McGuire Nuclear Station
Mecklenburg County
Huntersville, North Carolina 28078

Dear Ms. Werner,

Duke Energy Carolinas (DEC), McGuire Nuclear Station, completed a subsurface investigation of the McGuire Landfill #1 (Unlined) Permit No. 6004 facility due to recent increases in concentrations of select volatile organic compounds in MW-4/4D and MW-4R/4DR. The attached includes project information, groundwater sample collection, analytical methods, sample results, a figure showing the boring locations, tables showing boring locations, coordinates, results, boring logs, and the analytical laboratory report. No sample results had detectable violate organic compounds outside of the landfill review boundary.

Should you have any questions regarding the content attached, please contact me at (980) 373-5697.

Sincerely,

B. Tyler Hardin

Tyler Hardin, EI
Environmental Services

Attachments: Groundwater Sampling Report, Duke Energy's McGuire Nuclear Station No. 1 Landfill

Cc (via e-mail): Sean DeNeale, Duke Energy
John Williamson, Duke Energy

Groundwater Sampling Report
Duke Energy's McGuire Nuclear Station No. 1 Landfill
Huntersville, North Carolina
S&ME Project No. 4226-16-060

Prepared for:

Duke Energy Carolinas, LLC
526 South Church Street, Mail Code EC13K
Charlotte, North Carolina 28202

Prepared by:

S&ME, Inc.
301 Zima Park Road
Spartanburg, South Carolina 29301

June 23, 2016

June 23, 2016

Duke Energy Carolinas, LLC
526 South Church Street
Maile Code EC13K
Charlotte, North Carolina 28202

Attention: Ms. Tyler Hardin
Tyler.hardin@duke-energy.com

Reference: **Groundwater Sampling Report**
Duke Energy's McGuire Nuclear Station No. 1 Landfill
Huntersville, North Carolina
S&ME Project No. 4226-16-060

Dear Ms. Hardin:

S&ME has completed the groundwater sampling activities described in our proposal number 42-1600350, dated March 17, 2016, and the results are presented herein.

We appreciate each and every opportunity to be of service to you and to Duke Energy. Please do not hesitate to contact us if you have any questions.

Sincerely,

S&ME, Inc.

Richard Bonds
Project Professional
rbonds@smeinc.com

John Whitehead
Senior Professional
jwhitehead@smeinc.com

cc: Mr. John Williamson, McGuire Nuclear Station

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1.0 Project Information

Duke Energy conducts routine groundwater monitoring in proximity to the closed No. 1 Landfill (unlined) at the McGuire Nuclear Station. The approximate location of the No. 1 Landfill (unlined) is shown on **Figure 1** in **Appendix I**. Recent sampling results have shown an increase in concentrations of select volatile organic compounds in several down gradient monitoring wells (MW-4/4D and MW-4R/4DR).

Duke Energy requested S&ME to prepare a proposal to assess the groundwater near the above referenced well via direct push borings and groundwater sample collection and analysis. Our proposal (No. 42-1600350) was submitted on March 17, 2016.

Presented below are the tasks we undertook and the results from the groundwater sampling.

2.0 Regulatory Approval

Prior to mobilizing to the site, the Mecklenburg County Health Department Groundwater & Wastewater Services was notified of our intent to advance direct push borings and collect groundwater samples in proximity to the No. 1 Landfill (unlined). Permit Number 70002341 was issued on May 3, 2016. A copy of the permit is included in **Appendix III**.

3.0 Direct Push Borings

Beginning on May 18, 2016, S&ME and our drilling subcontractor, SAEDACCO were on-site to advance the direct push borings. Boring depths ranged from 40 feet at DP-12 to 80 feet at DP-4,-5, and -6. Following completion of each boring, horizontal coordinates of the borings were collected using a hand held GPS unit. These coordinates were converted to North Carolina State Plane coordinates and used to locate the borings on a scaled site plan – **Figure 2**. The boring coordinates (NC State Plane and latitude/longitude) are included in **Table 1** in **Appendix II**.

Continuous soils samples were collected at DP-1, DP-11, DP-17, and DP-25 for the purpose of describing the lithological characteristics of the soils near the landfill. Lithological information for the remaining direct push borings was interpolated from these four locations. Boring logs for each of the borings are included in **Appendix IV**.

To minimize the risk of possible cross contamination between boring locations, down-hole direct push equipment was rinsed with high pressure hot water. The rinse water was collected into a labeled 55-gallon drum and staged at the landfill for later disposal. The results from the groundwater sample analyses are considered representative of the drummed water and will be used to manifest the rinse water off site for disposal. Documentation of the disposal will be submitted under separate cover.

4.0 Groundwater Sample Collection and Analysis

At the termination depth of each boring, the direct push rods were pulled back toward the ground surface to deploy and expose the groundwater sample screen at the bottom of the direct push rod string. The

stainless steel screen section is four feet long. At three locations (DP-1, DP-17, and DP-18), the direct push rods were removed and one-inch PVC screen and casing was installed. This procedure was used at these locations due to the slowness of the groundwater to enter the boring. Groundwater was not encountered within the boring depth of DP-13, so a sample was not collected. Groundwater sampling details from the borings are also included on the boring logs in **Appendix IV**.

The groundwater samples were collected by using new disposable polyethylene tubing equipped with a check value to bring the groundwater to the surface, where the water was decanted directly from the tubing into laboratory supplied 40 milliliter vials. The vials were labeled with the sample identification, date and time. The samples were stored on ice and relinquished to Duke Energy's laboratory near the McGuire Nuclear Station. Duke Energy relinquished the samples to Pace Analytical for analysis of volatile organic compounds (VOCs) by Method 8260.

Following collection of the groundwater samples, each boring was abandoned by a North Carolina certified well driller in general accordance with the North Carolina Well Construction Standards, NCAC Title 15A Subchapter 2C Section .0100 and the Mecklenburg County Groundwater Regulations, Chapter VI – Section VI. The borings were abandoned by pumping a mixture of Portland cement and powdered bentonite through a tremie pipe and filling the boring from the bottom to the ground surface. Documentation of the abandonment will be submitted to Mecklenburg County under separate cover.

5.0 Groundwater Sample Laboratory Results

The results of the groundwater sample analyses are summarized in **Table 2**, and copies of the laboratory reports are included in **Appendix V**.

Volatile organic compounds were not detected above laboratory reporting detection limits (RDLs) at 20 (DP-1, DP-7, DP-9, DP-10, DP-11, DP-12, DP-14, DP-16, DP-17, DP-18, DP-19, DP-20, DP-21, DP-22, DP-23, DP-24, DP-25, DP-26, DP-27, and DP-28) of the 27 sampled locations. One VOC, toluene, was reported just above the RDL at DP-15; however, comments provided by the Pace Analytical Laboratory indicated the sample may be biased high for toluene due to carryover from a previous sample. In addition, Pace reported that the sample from DP-15 contained excess suspended soil particles, which limited the volume of groundwater available for analysis.

Detected VOCs included 2-butanone (one time), benzene (one time), cis-1,2-dichloroethene (six times), m&p-xylene (one time), methylene chloride (four times), o-xylene (six times), toluene (two times), and trichloroethene (three times). Total xylenes (six times) were also reported but are a combination of the m&p-xylene and o-xylene concentrations.

The reported VOC concentrations were compared to North Carolina 2L Groundwater Standards, 15A NCAC 2L .0200 (April 2013), and to North Carolina Department of Environmental Quality (NCDEQ) Solid Waste Section Limits (SWSLs). These criteria are also included in **Table 2**. From this comparison, three compounds (benzene [one detection], methylene chloride [three of four detections], and trichloroethene [one of three detections]) were detected at concentrations that exceed both the 2L Standards and SWSLs. Cis-1,2-dichloroethene [six of six detections] was detected above the SWSL but not above the 2L standard. Methylene chloride was also detected one time at a concentration that exceeded the SWSL but not the 2L Standard. Each toluene detection (twice) also exceeded the SWSL but not the 2L Standard. As

mentioned previously, the toluene detection at DP-15 may be carryover from a preceding sample. Trichloroethene was detected two out of three times at concentrations that exceed the SWSL but not the 2L Standard. Each total xylene concentration (six) exceeds the SWSL but not the 2L Standard.

6.0 Conclusions

Based on the laboratory results, it appears that groundwater impact is limited to the area along the landfill boundary near monitoring wells MW-4 and MW-4D as indicated by results from DP-2, DP-3, DP-4, DP-5, DP-6 and DP-8. Previous groundwater reports provided by Duke Energy have indicated detectable concentrations of VOCs at MW-4R/MW-4DR, which is located at or near the Landfill Review Boundary. However, during this assessment, no VOCs were detected in groundwater samples other than those listed above between the landfill boundary, the Landfill Review Boundary, and the Landfill Compliance Boundary.

VOCs are present in six of the 27 groundwater samples from this assessment in concentrations that exceed one or both of the screening criteria used (2L Groundwater Standards and NCDEQ's SWSLs). With the exception of tetrachloroethene, the detected compounds from this assessment are also similar to those detected in previous groundwater sampling events for the No. 1 Landfill (unlined). Tetrachloroethene has been detected during prior sampling events of the monitoring wells but was not detected in any of the 27 groundwater samples collected during this assessment.

Appendices

Appendix I – Figures

Figure 1 – Site Topographic Map

Figure 2 – Direct Push Boring Locations

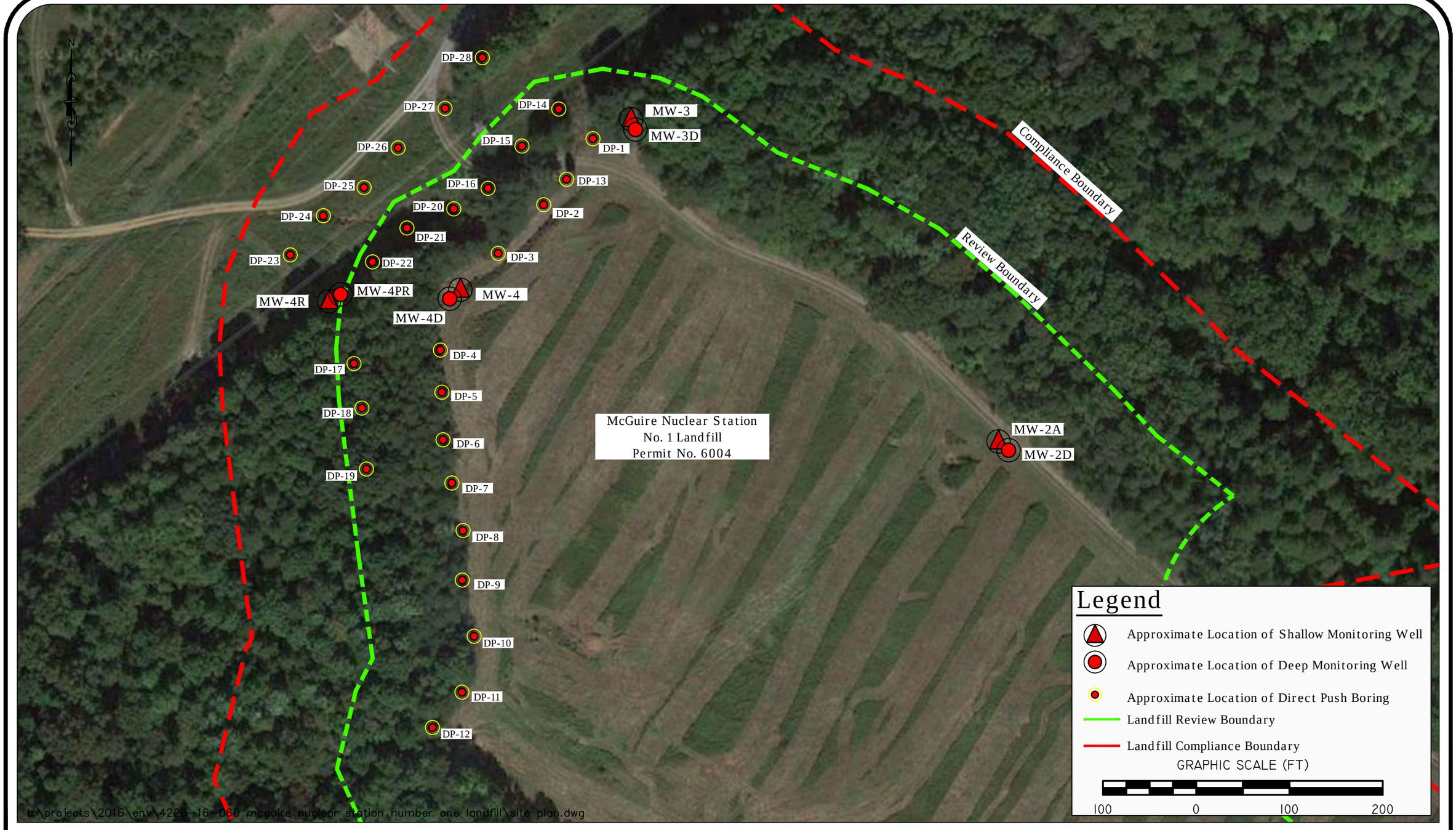
SCALE: As Shown	DATE: June 17, 2016
PROJECT NO. 42-1600350	DRAWN BY: jww
	CHECKED BY:

S&ME

301 Zima Park Road
Spartanburg, South Carolina 29301
Phone 864.574.2360
Fax 864.576.8730
WWW.SMEINC.COM

Site Topographic Map
McGuire Nuclear Station No. 1 Landfill
Hagers Ferry Road
Huntersville, North Carolina

FIGURE NO.
1



SCALE: As Shown	DATE: June 17, 2016	S&ME	Direct Push Boring Locations McGuire Nuclear Station No. 1 Landfill Hagers Ferry Road Huntersville, North Carolina
PROJECT NO. 42-1600350	DRAWN BY: jww	301 Zima Park Road Spartanburg, South Carolina 29301 Phone 864.574.2360 Fax 864.576.8730 WWW.SMEINC.COM	FIGURE NO. 2
	CHECKED BY:		

Appendix II – Tables

Table 1 – Summary of Direct Push Boring Coordinates and Water Levels

Table 2 – Summary of Laboratory Analysis

Table 1
Summary of Direct Push Boring Coordinates and Water Levels
McGuire Nuclear Station No. 1 Landfill
Huntersville, North Carolina
S&ME Project Number 4226-16-060

Boring ID	Northing	Easting	Latitude	Longitude	Depth to Water
DP-1	611283.78	1418838.88	35° 24' 48" N	80° 57' 05" W	63
DP-2	611213.13	1418786.13	35° 24' 45" N	80° 57' 04" W	63
DP-3	611160.96	1418737.23	35° 24' 49" N	80° 57' 05" W	64
DP-4	611057.31	1418675.27	35° 24' 49" N	80° 57' 06" W	63
DP-5	611012.06	1418676.95	35° 24' 49" N	80° 57' 06" W	62
DP-6	610961.13	1418678.15	35° 24' 50" N	80° 57' 05" W	60
DP-7	610914.83	1418687.56	35° 24' 50" N	80° 57' 05" W	55
DP-8	610863.95	1418699.64	35° 24' 50" N	80° 57' 04" W	50
DP-9	610810.84	1418698.77	35° 24' 51" N	80° 57' 04" W	45
DP-10	610750.60	1418711.43	35° 24' 47" N	80° 57' 05" W	41
DP-11	610690.63	1418698.47	35° 24' 47" N	80° 57' 05" W	30
DP-12	610652.76	1418666.71	35° 24' 50" N	80° 57' 02" W	30
DP-13	611240.18	1418810.62	35° 24' 49" N	80° 57' 03" W	Dry
DP-14	611315.67	1418802.30	35° 24' 49" N	80° 57' 04" W	55
DP-15	611275.86	1418762.74	35° 24' 49" N	80° 57' 04" W	57
DP-16	611230.62	1418726.39	35° 24' 47" N	80° 57' 04" W	54
DP-17	611042.68	1418582.52	35° 24' 47" N	80° 57' 04" W	39
DP-18	610995.14	1418591.13	35° 24' 46" N	80° 57' 04" W	43
DP-19	610929.82	1418595.86	35° 24' 46" N	80° 57' 04" W	39
DP-20	611208.56	1418689.68	35° 24' 45" N	80° 57' 04" W	52
DP-21	611188.08	1418639.35	35° 24' 44" N	80° 57' 04" W	40
DP-22	611151.81	1418602.51	35° 24' 44" N	80° 57' 04" W	45
DP-23	611159.21	1418514.20	35° 24' 50" N	80° 57' 03" W	42
DP-24	611201.27	1418549.73	35° 24' 50" N	80° 57' 03" W	41
DP-25	611231.37	1418593.49	35° 24' 50" N	80° 57' 03" W	40
DP-26	611273.94	1418629.97	35° 24' 49" N	80° 57' 04" W	46
DP-27	611316.24	1418680.22	35° 24' 49" N	80° 57' 04" W	52
DP-28	611370.64	1418720.28	35° 24' 49" N	80° 57' 05" W	44

Table 2
Summary of Laboratory Analysis
McGuire Nuclear Station No. 1 Landfill
Huntersville, North Carolina
S&ME Project Number 4226-16-060

				Sample ID																											
		2L Standard	SWSL	DP-1	DP-2	DP-3	DP-4	DP-5	DP-6	DP-7	DP-8	DP-9	DP-10	DP-11	DP-12	DP-13	DP-14	DP-15	DP-16	DP-17	DP-18	DP-19	DP-20	DP-21	DP-22	DP-23	DP-24	DP-25	DP-26	DP-27	DP-28
Compound	CAS Number	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1,1,1,2-Tetrachloroethane	630-20-6	NE	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	71-55-6	200	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	79-34-5	0.2	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	79-00-5	NE	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	75-34-3	6	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	75-35-4	350	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	96-18-4	0.005	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	96-12-8	0.04	13	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane (EDB)	106-93-4	0.02	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	95-50-1	20	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	107-06-2	0.4	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	78-87-5	0.6	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	NA	NA	NA	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	6	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	78-93-3	4000	100	< 5	< 5	< 5	< 5	< 5	**5.2**	< 5	< 5	< 5	< 5	< 5	< 5	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Hexanone	591-78-6	NE	50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone (MIBK)	108-10-1	NE	100	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	67-64-1	6000	100	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NS	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Acrylonitrile	107-13-1	NE	200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	71-43-2	1	1	< 1	< 1	< 1	< 1	< 1	**3.6**	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	74-97-5	NE	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	75-27-4	0.6	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	75-25-2	4	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	74-83-9	NE	10	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon disulfide	75-15-0	700	100	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	56-23-5	0.3	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	108-90-7	50	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	75-00-3	3000	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	67-66-3	70	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloromethane	74-87-3	3	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	156-59-2	70	5	< 1	**45.3**	**19.7**	**23.8**	**8.4**	**54.3**	< 1	**13.1**	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,3-Dichloropropene	10061-01-5	0.4	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	NA	NA	NA	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	124-48-1	0.4	3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	74-95-3	NE	10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	100-41-4	600	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Iodomethane	74-88-4	NE	10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	NS	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
m&p-Xylene	179601-23-1	NL	NL	< 2	< 2	**6.7**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methylene Chloride	75-09-2	5	1	< 2	**9**	**7.7**	**11.5**	< 2	**4.9**	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	95-47-6	NE	NE	< 1	**9.4**	**20.4**	**18.1**	**10.6**	**53.5**	< 1	**17.5**	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100-42-5	70	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	127-18-4	0.7	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	108-88-3	600	1	< 1	< 1	< 1	< 1	< 1	**1.2**	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	**1.7***	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene	156-60-5	100	5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	10061-02-6	0.4	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	NA	NA	NA	< 1	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	110-57-6	NE	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	79-01-6	3	1	< 1	**2.3**	**3.3**	**1.6**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	75-69-4	2000	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl acetate	108-05-4	NE	50	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	75-01-4	0.03	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Xylene (Total)	1330-20-7	500	5	< 2	**9.4**	**27.1**	**18.1**	**10.6**	**53.5**	< 2	**17.5**	< 2	< 2	< 2	< 2	NS	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2

Notes:
ug/l = micrograms per liter
2L Standards as specified in 15A NCAC 2L .0200 - April 1, 2013
SWSL = NC DEQ Solid Waste Section Limits - June 13, 2011
NA = Not analyzed in these samples
NS = Not sampled due to absence of groundwater.
Bold value indicates a concentration above the laboratory detection limit.
Concentration exceeds the SWSL limit.
Concentration exceeds the 2L and SWSL limits.
* Laboratory data qualifier indicates sample is biased high for this compound.

Appendix III – Mecklenburg County Subsurface Investigation Permit

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894
http://groundwater.charmeck.org

Bill To: **Owner**

Permit Issuance Date: 5/3/2016

Permit Number: 70002341

SUBSURFACE INVESTIGATION PERMIT

I. Well Owner Information

Name: Duke Energy
Attn: John Williamson
Phone #: 980.875.5894
Address 1: 12700 Hagers Ferry Road
Address 2: Mailcode: MG01EM
City: Huntersville State: NC Zip: 28078

II. Agent Information *(if applicable)*

Name: S&ME
Attn: John Whitehead
Phone #: 864.574.2360
Address 1: 301 Zima Park ROad
Address 2:
City: Spartanburg State: SC Zip: 29301

III. Site Information

Site Name; McGuire Nuclear Station
Parcel ID Number: 01315102
Address: 12700 HAGERS FERRY RD 7422
City: HUNTERSVILLE State: NC Zip: 28078

General Conditions of This Permit:

- This permit shall be VALID for a period not to exceed twelve (12) months from the date of issuance.
- This permit is VALID for the site specified above and must be on-site during the course of the investigation and made available to a Department representative upon request.
- A North Carolina Certified Well Contrator must perform any well contractor activities associated with this permit.
- All wells shall be constructed and abandoned to the standards of Chapter VI, Section V and Section VI of the Mecklenburg County Groundwater Well Regulations.
- All temporary wells, including those installed using Direct Push Technology, must be abandoned to the standards of Chapter VI, Section VI of the Mecklenburg County Groundwater Well Regulations.
- Registration information for all wells must be submitted to the Department within thirty (30) days of well completion. If water samples are collected, it is recommended that the well NOT be registered until the analytical results are received.

Appendix IV – Boring Logs

WELL COMPLETION REPORT FOR DP-1

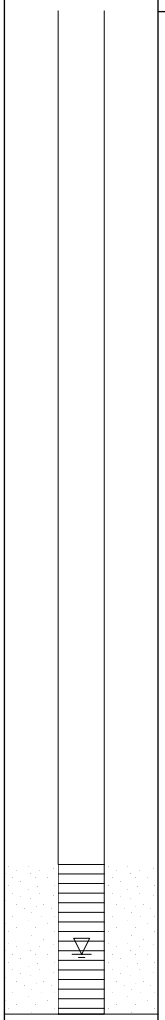
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/19/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **63 feet at TOB**

LATITUDE: **35° 24' 48" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611283.7796**
EASTING: **1418838.875**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
Leaves and Topsoil		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65				
Boring Terminated at 68 Feet						



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **One Inch**
Type: **PVC**
Interval: **gs to to 57 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 67 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **PVC**
Interval: **57 to 67 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-1

WELL COMPLETION REPORT FOR DP-2

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/20/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **63 feet at TOB**

LATITUDE: **35° 24' 45" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611213.1331**
EASTING: **1418786.129**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65, 70				
Boring Terminated at 74 Feet						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 70 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 74 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **70 to 74 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

JWW DPT LOGS.GPJ S&ME.GDT 6/22/16

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COMPLETION REPORT OF WELL No. DP-2

WELL COMPLETION REPORT FOR DP-3

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/20/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **64 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611160.9642**
EASTING: **1418737.232**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65, 70				
Boring Terminated at 75 Feet		75				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 71 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 75 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **71 to 75 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-3

WELL COMPLETION REPORT FOR DP-4

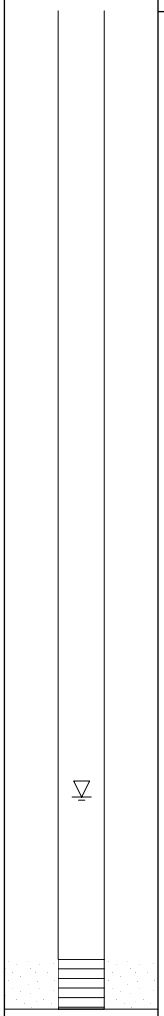
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/20/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **63 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 06" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611057.3089**
EASTING: **1418675.274**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-17.		0		0.0	GS	
		5				
Red Brown Clayey Silty fine to medium Sand		10				
Tan Silty fine Sand		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
		55				
		60				
		65				
		70				
		75				
Boring Terminated at 80 Feet		80				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 76 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 80 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **76 to 80 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-4

WELL COMPLETION REPORT FOR DP-5

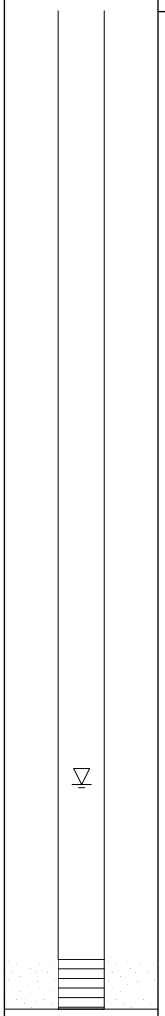
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/20/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **62 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 06" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611012.0564**
EASTING: **1418676.948**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-17.		0				
		5				
Red Brown Clayey Silty fine to medium Sand		10				
Tan Silty fine Sand		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
		55				
		60				
		65				
		70				
		75				
Boring Terminated at 80 Feet		80				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 76 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 80 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **76 to 80 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-5

WELL COMPLETION REPORT FOR DP-6

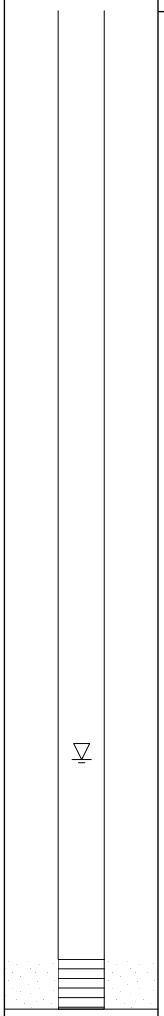
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/23/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **60 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610961.1284**
EASTING: **1418678.15**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-17.		0		0.0	GS	
Red Brown Clayey Silty fine to medium Sand		5				
Tan Silty fine Sand		10				
		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
		55				
		60				
		65				
		70				
		75				
Boring Terminated at 80 Feet		80				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 76 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 80 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **76 to 80 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-6

WELL COMPLETION REPORT FOR DP-7

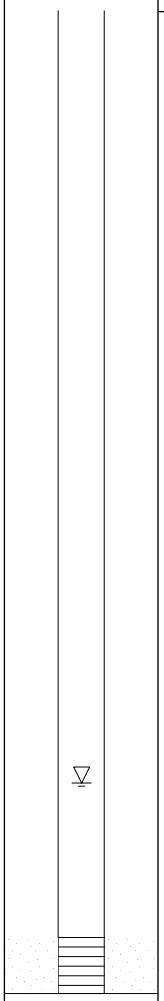
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/23/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **55 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610914.8261**
EASTING: **1418687.557**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-17.		0		0.0	GS	
Red Brown Clayey Silty fine to medium Sand		5				
Tan Silty fine Sand		10				
		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
		55				
		60				
		65				
Boring Terminated at 70 Feet		70				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 66 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 70 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **66 to 70 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-7

WELL COMPLETION REPORT FOR DP-8

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/23/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **50 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610863.9535**
EASTING: **1418699.639**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-17.		0				
		5				
Red Brown Clayey Silty fine to medium Sand		10				
Tan Silty fine Sand		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
		55				
		60				
		65				
Boring Terminated at 70 Feet		70				
		75				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 66 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 70 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **66 to 70 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

COMPLETION REPORT OF WELL No. DP-8

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WELL COMPLETION REPORT FOR DP-9

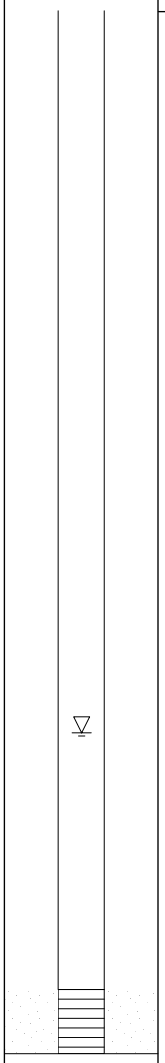
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/23/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **45 feet at TOB**

LATITUDE: **35° 24' 51" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610810.8366**
EASTING: **1418698.768**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-11. Red Brown Clayey fine to medium Sandy Silt; Tan Brown Silty fine to medium Sand		0 – 20		0.0	GS	
Tan fine Sandy Silt		20 – 60				
Boring Terminated at 60 Feet		60 – 65				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 61 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 65 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **61 to 65 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-9

WELL COMPLETION REPORT FOR DP-10

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/23/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **41 feet at TOB**

LATITUDE: **35° 24' 47" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610750.596**
EASTING: **1418711.433**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-11.		0				
		5				
Tan Brown Silty fine to medium Sand		10				
		15				
		20				
Tan fine Sandy Silt		25				
		30				
		35				
		40				
		45				
		50				
Boring Terminated at 55 Feet		55				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 51 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 55 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **51 to 55 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-10

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WELL COMPLETION REPORT FOR DP-11

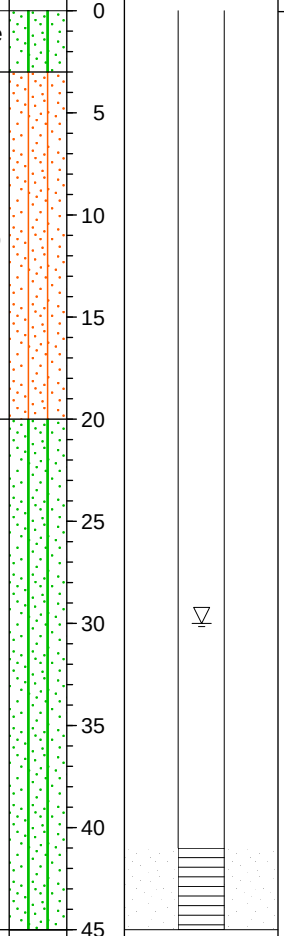
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **30 feet at TOB**

LATITUDE: **35° 24' 47" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610690.6342**
EASTING: **1418698.47**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
		0		0.0	GS	
Red Brown Clayey fine to medium Sandy Silt						
Tan Brown Silty fine to medium Sand		5, 10, 15, 20				
Tan fine Sandy Silt		25, 30, 35, 40, 45				
Boring Terminated at 45 Feet						



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 41 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 45 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **41 to 45 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-11

WELL COMPLETION REPORT FOR DP-12

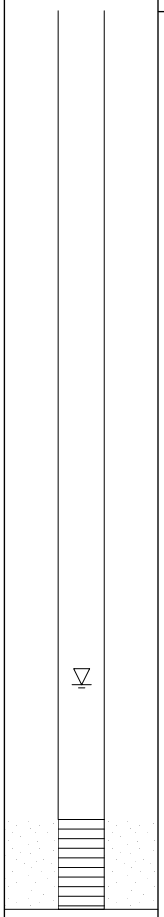
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **30 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 02" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610652.7617**
EASTING: **1418666.708**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-11.		0 – 5		0.0	GS	
Tan Brown Silty fine to medium Sand		5 – 20				
Tan fine Sandy Silt		20 – 40				
Boring Terminated at 40 Feet		40				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 36 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 40 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **36 to 40 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-12

WELL COMPLETION REPORT FOR DP-13

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **Dry feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 03" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611240.1779**
EASTING: **1418810.618**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
		5				
Red Brown Clayey fine Sandy Silt		10				
		15				
		20				
		25				
		30				
Orange Purple Tan Silty fine Sand		35				
		40				
		45				
		50				
		55				
		60				
Boring Terminated at 62 Feet						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 57 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 61 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **57 to 61 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-13

WELL COMPLETION REPORT FOR DP-14

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **55 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611315.6677**
EASTING: **1418802.303**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55				
White Gray Silty fine Sand		60, 65				
Boring Terminated at 70 Feet		70				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 66 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 70 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **66 to 70 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

COMPLETION REPORT OF WELL No. DP-14

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WELL COMPLETION REPORT FOR DP-15

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **57 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611275.8577**
EASTING: **1418762.742**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65, 70				
Boring Terminated at 73 Feet						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 69 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 73 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **69 to 73 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-15

WELL COMPLETION REPORT FOR DP-16

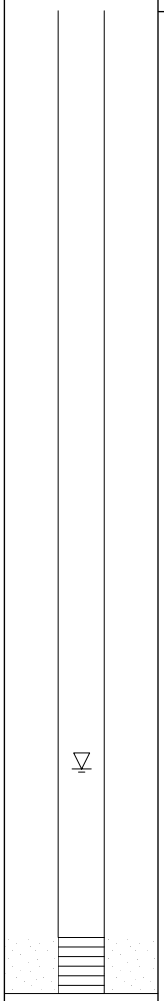
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/24/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **54 feet at TOB**

LATITUDE: **35° 24' 47" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611230.6221**
EASTING: **1418726.388**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65				
Boring Terminated at 70 Feet		70				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 66 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 70 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **66 to 70 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-16

WELL COMPLETION REPORT FOR DP-17

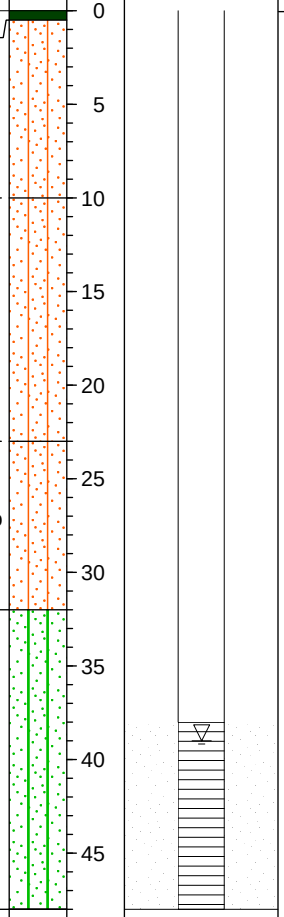
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/18/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **39 feet at TOB**

LATITUDE: **35° 24' 47" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611042.6758**
EASTING: **1418582.519**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
Leaves and Topsoil		0		0.0	GS	
Red Brown Clayey Silty fine to medium Sand		5, 10				
Tan Silty fine Sand		15, 20				
White Gray Silty fine to medium Sand		25, 30				
Orange Tan fine Sandy Silt		35, 40, 45				
Boring Terminated at 48 Feet						



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **One Inch**
Type: **PVC**
Interval: **gs to to 38 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 48 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **PVC**
Interval: **38 to 48 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-17

WELL COMPLETION REPORT FOR DP-18

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/18/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **43 feet at TOB**

LATITUDE: **35° 24' 46" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610995.1434**
EASTING: **1418591.134**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-17.		0				
Red Brown Clayey Silty fine to medium Sand		5				
		10				
Tan Silty fine Sand		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
Boring Terminated at 50 Feet						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **One Inch**
Type: **PVC**
Interval: **gs to to 40 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 50 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **PVC**
Interval: **40 to 50 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-18

WELL COMPLETION REPORT FOR DP-19

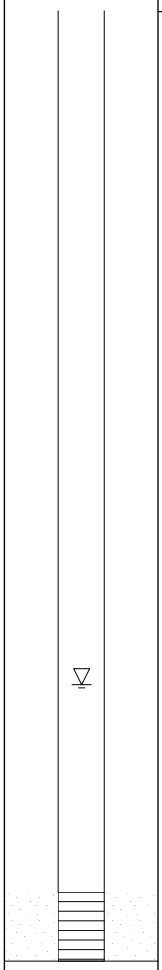
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/19/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **39 feet at TOB**

LATITUDE: **35° 24' 46" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **610929.8163**
EASTING: **1418595.861**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-17.		0				
Red Brown Clayey Silty fine to medium Sand		5				
Tan Silty fine Sand		10				
		15				
		20				
White Gray Silty fine to medium Sand		25				
		30				
Orange Tan fine Sandy Silt		35				
		40				
		45				
		50				
Boring Terminated at 55 Feet		55				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 51 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 55 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **51 to 55 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-19

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WELL COMPLETION REPORT FOR DP-20

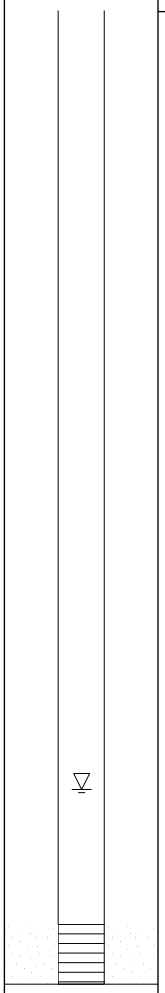
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **52 feet at TOB**

LATITUDE: **35° 24' 45" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611208.5572**
EASTING: **1418689.676**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5				
Orange Purple Tan Silty fine Sand		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60				
White Gray Silty fine Sand		65				
Boring Terminated at 65 Feet						



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 61 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 65 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **61 to 65 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-20

WELL COMPLETION REPORT FOR DP-21

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **40 feet at TOB**

LATITUDE: **35° 24' 44" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611188.0785**
EASTING: **1418639.347**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
No soil samples collected at this location. Lithology interploated from DP-1.		0 – 5		0.0	GS	
Red Brown Clayey fine Sandy Silt		5 – 10				
Orange Purple Tan Silty fine Sand		10 – 60				
Boring Terminated at 61 Feet		60				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 56 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 60 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **56 to 60 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-21

WELL COMPLETION REPORT FOR DP-22

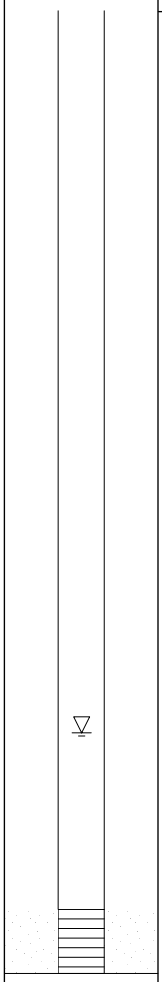
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **45 feet at TOB**

LATITUDE: **35° 24' 44" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611151.8136**
EASTING: **1418602.509**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-17.		0				
Red Brown Clayey Silty fine to medium Sand		5				
Tan Silty fine Sand		10				
White Gray Silty fine to medium Sand		15				
Orange Tan fine Sandy Silt		20				
		25				
		30				
		35				
		40				
		45				
		50				
		55				
Boring Terminated at 60 Feet		60				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 56 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 60 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **56 to 60 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-22

WELL COMPLETION REPORT FOR DP-23

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **42 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 03" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611159.2051**
EASTING: **1418514.2**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-25.		0				
		5				
Red Brown Clayey fine Sandy Silt		10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Boring Terminated at 50 Feet		50				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 46 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 50 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **46 to 50 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-23

WELL COMPLETION REPORT FOR DP-24

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **41 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 03" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611201.2676**
EASTING: **1418549.729**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-25. Red Brown Clayey fine Sandy Silt		0, 5, 10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Gray Brown White Silty fine to medium Sand		50				
Boring Terminated at 55 Feet		55				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 51 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 55 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **51 to 55 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

COMPLETION REPORT OF WELL No. DP-24

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WELL COMPLETION REPORT FOR DP-25

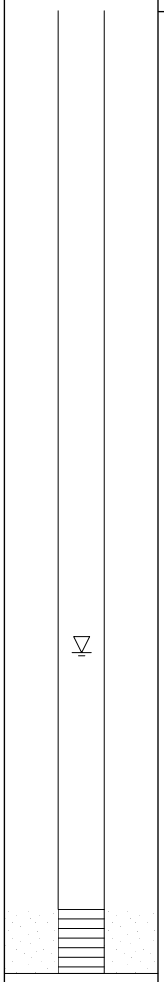
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/26/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **40 feet at TOB**

LATITUDE: **35° 24' 50" N**
LONGITUDE: **80° 57' 03" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611231.3661**
EASTING: **1418593.489**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
Leaves and Topsoil		0		0.0	GS	
Red Brown Clayey fine Sandy Silt		5, 10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Gray Brown White Silty fine to medium Sand		50, 55				
Boring Terminated at 60 Feet		60				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 56 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 60 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **56 to 60 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-25

WELL COMPLETION REPORT FOR DP-26

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/25/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **46 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611273.9397**
EASTING: **1418629.966**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-25. Red Brown Clayey fine Sandy Silt		0, 5, 10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Gray Brown White Silty fine to medium Sand		50, 55, 60				
Boring Terminated at 60 Feet						

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 56 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 60 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **56 to 60 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. DP-26

WELL COMPLETION REPORT FOR DP-27

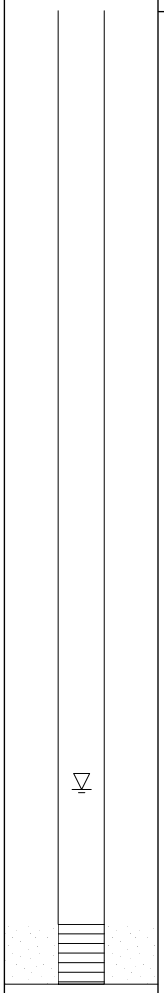
PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/26/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **52 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 04" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611316.2425**
EASTING: **1418680.224**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-25. Red Brown Clayey fine Sandy Silt		0, 5, 10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Gray Brown White Silty fine to medium Sand		50, 55, 60				
Boring Terminated at 65 Feet		65				



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 61 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 65 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **61 to 65 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

JWW DPT LOGS.GPJ S&ME.GDT 6/22/16

S&ME

S&ME, Inc.
Greenville, SC 864.232.8987
Spartanburg, SC 864.574.2360

COMPLETION REPORT OF WELL No. DP-27

WELL COMPLETION REPORT FOR DP-28

PROJECT: **McGuire Nuclear Station**
PROJECT NO: **4226-16-060**
PROJECT LOCATION: **Huntersville, North Carolina**

DRILLING CONTRACTOR: **SAEDACCO**
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **5/26/16**
LOGGED BY: **Richard Bonds**

WATER LEVEL: **44 feet at TOB**

LATITUDE: **35° 24' 49" N**
LONGITUDE: **80° 57' 05" W**
TOP OF CASING ELEVATION:
DATUM:
NORTHING: **611370.6445**
EASTING: **1418720.281**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
				0.0	GS	
No soil samples collected at this location. Lithology interploated from DP-25. Red Brown Clayey fine Sandy Silt		0, 5, 10				
Tan Brown Silty fine to medium Sand		15, 20, 25, 30, 35, 40				
Brown White fine Sandy Silt		45				
Gray Brown White Silty fine to medium Sand		50, 55				
Boring Terminated at 60 Feet		60				

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type: **None**
Interval:

RISER CASING
Diameter: **1.5 Inches**
Type: **Direct Push Rods**
Interval: **gs to to 56 feet bls**

GROUT
Type: **Portland Cement and Powdered Bontonite**
Interval: **gs to 60 feet bls**

SEAL
Type: **None**
Interval:

FILTERPACK
Type: **None**
Interval:

SCREEN
Diameter: **One Inch**
Type: **Stainless Steel**
Interval: **56 to 60 feet bls**

LEGEND
- FILTER PACK
- K-PACKER
- BENTONITE
- CEMENT GROUT
- SAPROLITE
- STATIC WATER LEVEL
- WATER LEVEL AT TOB

ALS	ABOVE LAND SURFACE
BLS	BELOW LAND SURFACE
TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
FP	FILTER PACK
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

JWW DPT LOGS.GPJ S&ME.GDT 6/22/16

S&ME

S&ME, Inc.
Greenville, SC 864.232.8987
Spartanburg, SC 864.574.2360

COMPLETION REPORT OF WELL No. DP-28

Appendix V – Analytical Laboratory Report

Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	**J16050592**
Project Name:	MCGUIRE -
Customer Name(s):	John Williamson
Customer Address:	13225 Hagers Ferry Rd Mail Code: MG01CH Huntersville, NC 28078-8985
Lab Contact:	Rodney Wike Phone: 980-875-5186
Report Authorized By: (Signature)	Digitally signed by Anne Pifer DN: cn=Anne Pifer, o, ou=Analytical Lab, email=anne.pifer@duke-energy.com, c=US Date: 2016.06.03 09:58:26 -04'00' **Date:** 5/31/2016 Rodney Wike

Program Comments:

Please contact the Program Manager (Rodney Wike) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2016014567	MCGUIRE	18-May-16 2:30 PM	RICHARD BONDS	DP-17
2016014568	MCGUIRE	18-May-16 4:35 PM	RICHARD BONDS	DP-18
2016014569	MCGUIRE	19-May-16 10:05 AM	RICHARD BONDS	DP-19
2016014570	MCGUIRE	19-May-16 3:45 PM	RICHARD BONDS	DP-1
2016014571	MCGUIRE	20-May-16 9:50 AM	RICHARD BONDS	DP-2
2016014572	MCGUIRE	20-May-16 11:35 AM	RICHARD BONDS	DP-3
2016014573	MCGUIRE	20-May-16 2:25 PM	RICHARD BONDS	DP-4

7 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
All Results are less than the laboratory reporting limits.	☐ Yes	☑ No
All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No

Report Sections Included:

- ☑ Job Summary Report
- ☑ Sample Identification
- ☑ Technical Validation of Data Package
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports, & Documentation
- ☐ Customer Database Entries
- ☑ Chain of Custody
- ☑ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: DBA Account Date: 5/31/2016

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-17 **Sample #: 2016014567**

Collection Date: 18-May-16 2:30 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-18 **Sample #: 2016014568**

Collection Date: 18-May-16 4:35 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-19 **Sample #: 2016014569**

Collection Date: 19-May-16 10:05 AM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-1 **Sample #: 2016014570**

Collection Date: 19-May-16 3:45 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-2 **Sample #: 2016014571**

Collection Date: 20-May-16 9:50 AM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-3 **Sample #: 2016014572**

Collection Date: 20-May-16 11:35 AM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050592

Site: DP-4 **Sample #: 2016014573**

Collection Date: 20-May-16 2:25 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 27, 2016

Program Manager
Duke Energy

,

RE: Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Dear Program Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 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,

Kevin Herring
kevin.herring@pacelabs.com
HORIZON Database Administrator

Enclosures

cc: Richard Bonds
Program Manager, Duke Energy

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

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

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SAMPLE ANALYTE COUNT

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92298689001	**2016014567 DP-17**	EPA 8260	CAH	52	PASI-C
92298689002	**2016014568 DP-18**	EPA 8260	CAH	52	PASI-C
92298689003	**2016014569 DP-19**	EPA 8260	CAH	52	PASI-C
92298689004	**2016014570 DP-1**	EPA 8260	CAH	52	PASI-C
92298689005	**2016014571 DP-2**	EPA 8260	CAH	52	PASI-C
92298689006	**2016014572 DP-3**	EPA 8260	CAH	52	PASI-C
92298689007	**2016014573 DP-4**	EPA 8260	CAH	52	PASI-C

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92298689001	**2016014567 DP-17**					
EPA 8260	Tetrachloroethene	<1.0	ug/L	1.0	05/26/16 18:43	
EPA 8260	Trichloroethene	<1.0	ug/L	1.0	05/26/16 18:43	
92298689002	**2016014568 DP-18**					
EPA 8260	Acetone	<25.0	ug/L	25.0	05/26/16 19:00	
EPA 8260	2-Hexanone	<5.0	ug/L	5.0	05/26/16 19:00	
92298689004	**2016014570 DP-1**					
EPA 8260	Acetone	<25.0	ug/L	25.0	05/26/16 19:34	
EPA 8260	Toluene	<1.0	ug/L	1.0	05/26/16 19:34	
92298689005	**2016014571 DP-2**					
EPA 8260	Benzene	<1.0	ug/L	1.0	05/26/16 19:51	
EPA 8260	cis-1,2-Dichloroethene	45.3	ug/L	1.0	05/26/16 19:51	
EPA 8260	Methylene Chloride	9.0	ug/L	2.0	05/26/16 19:51	
EPA 8260	Toluene	<1.0	ug/L	1.0	05/26/16 19:51	
EPA 8260	Trichloroethene	2.3	ug/L	1.0	05/26/16 19:51	
EPA 8260	Xylene (Total)	9.4	ug/L	2.0	05/26/16 19:51	
EPA 8260	o-Xylene	9.4	ug/L	1.0	05/26/16 19:51	
92298689006	**2016014572 DP-3**					
EPA 8260	Acetone	<25.0	ug/L	25.0	05/26/16 20:08	
EPA 8260	Benzene	<1.0	ug/L	1.0	05/26/16 20:08	
EPA 8260	cis-1,2-Dichloroethene	19.7	ug/L	1.0	05/26/16 20:08	
EPA 8260	Methylene Chloride	7.7	ug/L	2.0	05/26/16 20:08	
EPA 8260	Toluene	<1.0	ug/L	1.0	05/26/16 20:08	
EPA 8260	Trichloroethene	3.3	ug/L	1.0	05/26/16 20:08	
EPA 8260	Vinyl chloride	<1.0	ug/L	1.0	05/26/16 20:08	
EPA 8260	Xylene (Total)	27.1	ug/L	2.0	05/26/16 20:08	
EPA 8260	m&p-Xylene	6.7	ug/L	2.0	05/26/16 20:08	
EPA 8260	o-Xylene	20.4	ug/L	1.0	05/26/16 20:08	
92298689007	**2016014573 DP-4**					
EPA 8260	Benzene	<1.0	ug/L	1.0	05/26/16 20:25	
EPA 8260	1,1-Dichloroethane	<1.0	ug/L	1.0	05/26/16 20:25	
EPA 8260	cis-1,2-Dichloroethene	23.8	ug/L	1.0	05/26/16 20:25	
EPA 8260	Methylene Chloride	11.5	ug/L	2.0	05/26/16 20:25	
EPA 8260	Toluene	<1.0	ug/L	1.0	05/26/16 20:25	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	05/26/16 20:25	
EPA 8260	Xylene (Total)	18.1	ug/L	2.0	05/26/16 20:25	
EPA 8260	m&p-Xylene	<2.0	ug/L	2.0	05/26/16 20:25	
EPA 8260	o-Xylene	18.1	ug/L	1.0	05/26/16 20:25	

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Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: May 27, 2016

General Information:
7 samples were 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.

QC Batch: MSV/37012

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92298690003

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

- MS (Lab ID: 1743128)
  - Carbon disulfide
- MSD (Lab ID: 1743129)
  - Bromomethane
  - Carbon disulfide

Additional Comments:

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

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014567 DP-17 **Lab ID: 92298689001** Collected: 05/18/16 14:30 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 18:43	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 18:43	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 18:43	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 18:43	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 18:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 18:43	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 18:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 18:43	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 18:43	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 18:43	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 18:43	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/26/16 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 18:43	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 18:43	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 18:43	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 18:43	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/26/16 18:43	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014567 DP-17 **Lab ID: 92298689001** Collected: 05/18/16 14:30 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 18:43	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/26/16 18:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/26/16 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/26/16 18:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/26/16 18:43	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014568 DP-18 **Lab ID: 92298689002** Collected: 05/18/16 16:35 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 19:00	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 19:00	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 19:00	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 19:00	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 19:00	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 19:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 19:00	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 19:00	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 19:00	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 19:00	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 19:00	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/26/16 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 19:00	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:00	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 19:00	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 19:00	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/26/16 19:00	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014568 DP-18 **Lab ID: 92298689002** Collected: 05/18/16 16:35 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 19:00	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/26/16 19:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		05/26/16 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/26/16 19:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/26/16 19:00	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014569 DP-19 **Lab ID: 92298689003** Collected: 05/19/16 10:05 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 19:17	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 19:17	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 19:17	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 19:17	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 19:17	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 19:17	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 19:17	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 19:17	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 19:17	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 19:17	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 19:17	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/26/16 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 19:17	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:17	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 19:17	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 19:17	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/26/16 19:17	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014569 DP-19 **Lab ID: 92298689003** Collected: 05/19/16 10:05 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 19:17	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/26/16 19:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/26/16 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/26/16 19:17	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/26/16 19:17	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014570 DP-1 **Lab ID: 92298689004** Collected: 05/19/16 15:45 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 19:34	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 19:34	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 19:34	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 19:34	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 19:34	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 19:34	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 19:34	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 19:34	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 19:34	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 19:34	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 19:34	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/26/16 19:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 19:34	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:34	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 19:34	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 19:34	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/26/16 19:34	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014570 DP-1 **Lab ID: 92298689004** Collected: 05/19/16 15:45 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 19:34	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/26/16 19:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/26/16 19:34	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/26/16 19:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/26/16 19:34	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014571 DP-2 **Lab ID: 92298689005** Collected: 05/20/16 09:50 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 19:51	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 19:51	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 19:51	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 19:51	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 19:51	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 19:51	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 19:51	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 19:51	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 19:51	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-35-4	
cis-1,2-Dichloroethene	**45.3**	ug/L	1.0	1		05/26/16 19:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 19:51	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 19:51	74-88-4	
Methylene Chloride	**9.0**	ug/L	2.0	1		05/26/16 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 19:51	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 19:51	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	79-00-5	
Trichloroethene	**2.3**	ug/L	1.0	1		05/26/16 19:51	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 19:51	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 19:51	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 19:51	75-01-4	
Xylene (Total)	**9.4**	ug/L	2.0	1		05/26/16 19:51	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014571 DP-2 **Lab ID: 92298689005** Collected: 05/20/16 09:50 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 19:51	179601-23-1	
o-Xylene	**9.4**	ug/L	1.0	1		05/26/16 19:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/26/16 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/26/16 19:51	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/26/16 19:51	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014572 DP-3 **Lab ID: 92298689006** Collected: 05/20/16 11:35 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 20:08	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 20:08	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 20:08	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 20:08	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 20:08	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 20:08	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 20:08	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 20:08	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 20:08	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-35-4	
cis-1,2-Dichloroethene	**19.7**	ug/L	1.0	1		05/26/16 20:08	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 20:08	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 20:08	74-88-4	
Methylene Chloride	**7.7**	ug/L	2.0	1		05/26/16 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 20:08	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 20:08	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	79-00-5	
Trichloroethene	**3.3**	ug/L	1.0	1		05/26/16 20:08	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 20:08	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 20:08	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 20:08	75-01-4	
Xylene (Total)	**27.1**	ug/L	2.0	1		05/26/16 20:08	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014572 DP-3 **Lab ID: 92298689006** Collected: 05/20/16 11:35 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**6.7**	ug/L	2.0	1		05/26/16 20:08	179601-23-1	
o-Xylene	**20.4**	ug/L	1.0	1		05/26/16 20:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/26/16 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/26/16 20:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/26/16 20:08	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014573 DP-4 **Lab ID: 92298689007** Collected: 05/20/16 14:25 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/26/16 20:25	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/26/16 20:25	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/26/16 20:25	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/26/16 20:25	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/26/16 20:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/26/16 20:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/26/16 20:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/26/16 20:25	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/26/16 20:25	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-35-4	
cis-1,2-Dichloroethene	**23.8**	ug/L	1.0	1		05/26/16 20:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/26/16 20:25	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/26/16 20:25	74-88-4	
Methylene Chloride	**11.5**	ug/L	2.0	1		05/26/16 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/26/16 20:25	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/26/16 20:25	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	79-00-5	
Trichloroethene	**1.6**	ug/L	1.0	1		05/26/16 20:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/26/16 20:25	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/26/16 20:25	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/26/16 20:25	75-01-4	
Xylene (Total)	**18.1**	ug/L	2.0	1		05/26/16 20:25	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Sample: 2016014573 DP-4 **Lab ID: 92298689007** Collected: 05/20/16 14:25 Received: 05/23/16 13:41 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/26/16 20:25	179601-23-1	
o-Xylene	**18.1**	ug/L	1.0	1		05/26/16 20:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/26/16 20:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/26/16 20:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/26/16 20:25	2037-26-5	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

QC Batch: MSV/37012 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92298689001, 92298689002, 92298689003, 92298689004, 92298689005, 92298689006, 92298689007

METHOD BLANK: 1743126 Matrix: Water
Associated Lab Samples: 92298689001, 92298689002, 92298689003, 92298689004, 92298689005, 92298689006, 92298689007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/26/16 16:09	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	05/26/16 16:09	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	05/26/16 16:09	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/26/16 16:09	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/26/16 16:09	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/26/16 16:09	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/26/16 16:09	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/26/16 16:09	
2-Hexanone	ug/L	<5.0	5.0	05/26/16 16:09	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/26/16 16:09	
Acetone	ug/L	<25.0	25.0	05/26/16 16:09	
Acrylonitrile	ug/L	<10.0	10.0	05/26/16 16:09	
Benzene	ug/L	<1.0	1.0	05/26/16 16:09	
Bromochloromethane	ug/L	<1.0	1.0	05/26/16 16:09	
Bromodichloromethane	ug/L	<1.0	1.0	05/26/16 16:09	
Bromoform	ug/L	<1.0	1.0	05/26/16 16:09	
Bromomethane	ug/L	<2.0	2.0	05/26/16 16:09	
Carbon disulfide	ug/L	<2.0	2.0	05/26/16 16:09	
Carbon tetrachloride	ug/L	<1.0	1.0	05/26/16 16:09	
Chlorobenzene	ug/L	<1.0	1.0	05/26/16 16:09	
Chloroethane	ug/L	<1.0	1.0	05/26/16 16:09	
Chloroform	ug/L	<1.0	1.0	05/26/16 16:09	
Chloromethane	ug/L	<1.0	1.0	05/26/16 16:09	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/26/16 16:09	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/26/16 16:09	
Dibromochloromethane	ug/L	<1.0	1.0	05/26/16 16:09	
Dibromomethane	ug/L	<1.0	1.0	05/26/16 16:09	
Ethylbenzene	ug/L	<1.0	1.0	05/26/16 16:09	
Iodomethane	ug/L	<5.0	5.0	05/26/16 16:09	
m&p-Xylene	ug/L	<2.0	2.0	05/26/16 16:09	
Methylene Chloride	ug/L	<2.0	2.0	05/26/16 16:09	
o-Xylene	ug/L	<1.0	1.0	05/26/16 16:09	
Styrene	ug/L	<1.0	1.0	05/26/16 16:09	
Tetrachloroethene	ug/L	<1.0	1.0	05/26/16 16:09	
Toluene	ug/L	<1.0	1.0	05/26/16 16:09	

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(704)875-9092

QUALITY CONTROL DATA

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

METHOD BLANK: 1743126 Matrix: Water
Associated Lab Samples: 92298689001, 92298689002, 92298689003, 92298689004, 92298689005, 92298689006, 92298689007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/26/16 16:09	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/26/16 16:09	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	05/26/16 16:09	
Trichloroethene	ug/L	<1.0	1.0	05/26/16 16:09	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/26/16 16:09	
Vinyl acetate	ug/L	<2.0	2.0	05/26/16 16:09	
Vinyl chloride	ug/L	<1.0	1.0	05/26/16 16:09	
Xylene (Total)	ug/L	<2.0	2.0	05/26/16 16:09	
1,2-Dichloroethane-d4 (S)	%	103	70-130	05/26/16 16:09	
4-Bromofluorobenzene (S)	%	98	70-130	05/26/16 16:09	
Toluene-d8 (S)	%	100	70-130	05/26/16 16:09	

LABORATORY CONTROL SAMPLE: 1743127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.1	92	70-130	
1,1,1-Trichloroethane	ug/L	50	55.5	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.9	92	70-130	
1,1,2-Trichloroethane	ug/L	50	47.5	95	70-130	
1,1-Dichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethene	ug/L	50	60.6	121	70-132	
1,2,3-Trichloropropane	ug/L	50	44.6	89	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.3	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
1,2-Dichloropropane	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.8	98	70-130	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Hexanone	ug/L	100	96.5	97	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-140	
Acetone	ug/L	100	101	101	50-175	
Acrylonitrile	ug/L	250	257	103	70-143	
Benzene	ug/L	50	50.6	101	70-130	
Bromochloromethane	ug/L	50	52.8	106	70-130	
Bromodichloromethane	ug/L	50	48.5	97	70-130	
Bromoform	ug/L	50	45.5	91	70-130	
Bromomethane	ug/L	50	55.0	110	54-130	
Carbon disulfide	ug/L	50	62.4	125	70-131	
Carbon tetrachloride	ug/L	50	54.2	108	70-132	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	50.9	102	64-134	
Chloroform	ug/L	50	50.7	101	70-130	
Chloromethane	ug/L	50	51.3	103	64-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

LABORATORY CONTROL SAMPLE: 1743127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	54.4	109	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	70-130	
Dibromochloromethane	ug/L	50	46.7	93	70-130	
Dibromomethane	ug/L	50	49.2	98	70-131	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Iodomethane	ug/L	100	98.0	98	49-180	
m&p-Xylene	ug/L	100	96.3	96	70-130	
Methylene Chloride	ug/L	50	51.1	102	63-130	
o-Xylene	ug/L	50	47.3	95	70-130	
Styrene	ug/L	50	49.3	99	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	50.9	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	58.0	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	42.9	86	70-141	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	47.3	95	62-133	
Vinyl acetate	ug/L	100	106	106	66-157	
Vinyl chloride	ug/L	50	52.5	105	50-150	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1743128 1743129

Parameter	Units	92298690003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.3	19.2	96	96	70-130	0	
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	24.9	128	124	70-130	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.9	19.2	95	96	70-130	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.7	20.2	104	101	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	23.9	23.1	119	116	70-130	3	
1,1-Dichloroethene	ug/L	ND	20	20	28.3	27.0	142	135	70-166	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.0	18.2	95	91	70-130	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.4	18.8	92	94	70-130	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.0	20.7	105	104	70-130	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.6	20.3	103	101	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	21.4	20.2	107	101	70-130	6	
1,2-Dichloropropane	ug/L	ND	20	20	21.6	21.5	108	107	70-130	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	20.2	102	101	70-130	1	
2-Butanone (MEK)	ug/L	ND	40	40	44.0	43.3	110	108	70-130	2	
2-Hexanone	ug/L	ND	40	40	39.6	40.6	99	101	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	44.3	43.5	111	109	70-130	2	
Acetone	ug/L	ND	40	40	46.2	44.2	112	107	70-130	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1743128 1743129

Parameter	Units	92298690003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acrylonitrile	ug/L	ND	100	100	105	109	105	109	70-130	4	
Benzene	ug/L	ND	20	20	22.8	22.5	114	113	70-148	1	
Bromochloromethane	ug/L	ND	20	20	23.6	22.4	118	112	70-130	5	
Bromodichloromethane	ug/L	ND	20	20	20.9	20.6	104	103	70-130	1	
Bromoform	ug/L	ND	20	20	16.5	16.6	83	83	70-130	0	
Bromomethane	ug/L	ND	20	20	23.8	26.2	119	131	70-130	10	M1
Carbon disulfide	ug/L	ND	20	20	27.9	26.8	139	134	70-130	4	M1
Carbon tetrachloride	ug/L	ND	20	20	24.5	24.4	122	122	70-130	0	
Chlorobenzene	ug/L	ND	20	20	21.1	21.1	106	106	70-146	0	
Chloroethane	ug/L	ND	20	20	24.5	24.0	123	120	70-130	2	
Chloroform	ug/L	ND	20	20	22.8	21.8	114	109	70-130	4	
Chloromethane	ug/L	ND	20	20	24.9	24.7	124	124	70-130	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.4	23.8	122	119	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.1	20.5	105	103	70-130	3	
Dibromochloromethane	ug/L	ND	20	20	18.5	18.5	92	92	70-130	0	
Dibromomethane	ug/L	ND	20	20	21.1	20.2	105	101	70-130	4	
Ethylbenzene	ug/L	ND	20	20	21.6	21.2	108	106	70-130	2	
Iodomethane	ug/L	ND	40	40	40.3	50.8	101	127	70-130	23	
m&p-Xylene	ug/L	ND	40	40	41.6	41.6	104	104	70-130	0	
Methylene Chloride	ug/L	ND	20	20	23.1	22.0	114	108	70-130	5	
o-Xylene	ug/L	ND	20	20	20.3	20.5	102	102	70-130	1	
Styrene	ug/L	ND	20	20	20.7	20.6	103	103	70-130	1	
Tetrachloroethene	ug/L	13.3	20	20	34.2	34.4	105	105	70-130	0	
Toluene	ug/L	ND	20	20	23.0	22.6	115	113	70-155	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.8	25.1	129	125	70-130	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.9	19.5	100	98	70-130	2	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	14.8	15.1	74	76	70-130	2	
Trichloroethene	ug/L	ND	20	20	23.0	22.3	115	112	69-151	3	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	22.3	112	111	70-130	1	
Vinyl acetate	ug/L	ND	40	40	38.3	36.3	96	91	70-130	5	
Vinyl chloride	ug/L	ND	20	20	24.7	24.1	123	121	70-130	2	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						95	98	70-130		
Toluene-d8 (S)	%						102	101	70-130		

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(704)875-9092

QUALIFIERS

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

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

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16050592 MCGUIRE LF
Pace Project No.: 92298689

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92298689001	**2016014567 DP-17**	EPA 8260	MSV/37012		
92298689002	**2016014568 DP-18**	EPA 8260	MSV/37012		
92298689003	**2016014569 DP-19**	EPA 8260	MSV/37012		
92298689004	**2016014570 DP-1**	EPA 8260	MSV/37012		
92298689005	**2016014571 DP-2**	EPA 8260	MSV/37012		
92298689006	**2016014572 DP-3**	EPA 8260	MSV/37012		
92298689007	**2016014573 DP-4**	EPA 8260	MSV/37012		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: April 25, 2016 Page 1 of 2
	Document No.: **F-CHR-CS-003-rev.19**	Issuing Authority: Pace Huntersville Quality Office

Page 2 of 2 for Internal Use ONLY

Sample Condition Upon Receipt

Client Name: SAME

Projec WO# : 92298689

92298689

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: RV 5/23

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):** 5.4 **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/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
All containers needing acid/base preservation have been checked?	☐ Yes	☑ No	☐ N/A	10. HNC3 pH<2
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☑ No	☐ N/A	HCl pH<2 H2SO4 pH<2 NaOH pH>12
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☑ Yes	☐ No	☐ N/A	NaOH/ZnOAc pH>9
Samples checked for dechlorination?	☐ Yes	☑ No	☐ N/A	11.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	12.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	13.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: ____ Date/Time: ____

Comments/Sample Discrepancy: ____

Project Manager SCURF Review: KH **Date:** 5/23/16

Project Manager SRF Review: KH **Date:** 5/24/16

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)

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J16050592
BS 5-20-16 ~~3X~~ 1528

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace
PO 1115040

Page: 1 of 1

2043501

Section A Required Client Information:
Company: S&ME
Address: 301 Zima Park Rd
Ptbg, SC 29301
Email To: JWhitehead@sme
Phone: 864-574-2360 Fax: inc. con
Requested Due Date/TAT:

Section B Required Project Information:
BS 5-20-16
Williamson
Report To: Duke Energy / John
Copy To: S&ME / John Whitehead
Purchase Order No.:
Project Name: McGuire LF
Project Number:

Section C Invoice Information:
Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Requested Analysis Filtered Y/N): VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-17	WT	G	5/18/16	14:30				3				X					X		92298689
2	DP-18	WT	G	5/18	16:35				3				X					X		2016014567 001
3	DP-19	WT	G	5/19	10:05				3				X					X		14568 002
4	DP-1	WT	G	5/19	15:45				3				X					X		14569 003
5	DP-2	WT	G	5/20	9:50				3				X					X		14570 004
6	DP-3	WT	G	5/20	11:35				3				X					X		14571 005
7	DP-4	WT	G	5/20	14:25				3				X					X		14572 006
8																				14573 007
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Richard Bonds / S&ME	5/20/16	15:00	[illegible]	5/20/16	1500	
	[illegible]	5/23/16	1340	[illegible] Pace	5/23/16	1341	
	[illegible] Pace	5/23/16	1406	B. Vang / pace	5/23	1406	5.8 Due 6/3/2016
	5/20/16						

T2

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds DATE Signed (MM/DD/YY): 5/20/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

J16050592
BS 5-20-16 3X 1528

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2043501

Section A Required Client Information:
Company: S&ME
Address: 301 Zima Park Rd
Spartanburg, SC 29301
Email To: jwhitehead@sme.com
Phone: 864-574-2360 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Duke Energy / John Williamson
Copy To: S&ME / John Whitehead
Purchase Order No.:
Project Name: McGuire LF
Project Number:

Section C Invoice Information:
Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-17	WT	G	5/18/16	14:30				3				X					X		2016014567
2	DP-18	WT	G	5/18	16:35				3				X					X		14568
3	DP-19	WT	G	5/19	10:05				3				X					X		14569
4	DP-1	WT	G	5/19	15:45				3				X					X		14570
5	DP-2	WT	G	5/20	9:50				3				X					X		14571
6	DP-3	WT	G	5/20	11:35				3				X					X		14572
7	DP-4	WT	G	5/20	14:25				3				X					X		14573
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Richard Bonds / S&ME	5/20/16	15:00	[illegible]	5/20/16	1500	
	[illegible]	5/23/16	1340	[illegible]	5/23/16	1341	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds
DATE Signed (MM/DD/YY): 5/20/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	**J16050760**
Project Name:	MCGUIRE -
Customer Name(s):	John Williamson, John Whitehead
Customer Address:	13225 Hagers Ferry Rd Mail Code: MG01CH Huntersville, NC 28078-8985
Lab Contact:	Anne Pifer Phone: 980-875-3583

Report Authorized By: (Signature) Digitally signed by Anne Pifer DN: cn=Anne Pifer, o, ou=Analytical Lab, email=anne.pifer@duke-energy.com, c=US Date: 2016.06.21 09:44:37 -04'00'

Anne Pifer

Date: 6/21/2016

Program Comments:

Pace Report updated to include site identifications from the chain of custody. Please contact the Program Manager (Anne Pifer) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2016015254	MCGUIRE	24-May-16 3:10 PM	RICHARD BONDS	DP-14
2016015255	MCGUIRE	24-May-16 4:25 PM	RICHARD BONDS	DP-15
2016015256	MCGUIRE	24-May-16 5:20 PM	RICHARD BONDS	DP-16
2016015257	MCGUIRE	25-May-16 10:05 AM	RICHARD BONDS	DP-20
2016015258	MCGUIRE	25-May-16 11:15 AM	RICHARD BONDS	DP-21
2016015259	MCGUIRE	25-May-16 1:25 PM	RICHARD BONDS	DP-22
2016015260	MCGUIRE	25-May-16 2:25 PM	RICHARD BONDS	DP-23
2016015261	MCGUIRE	25-May-16 3:35 PM	RICHARD BONDS	DP-24
2016015262	MCGUIRE	25-May-16 4:45 PM	RICHARD BONDS	DP-26
2016015263	MCGUIRE	26-May-16 12:00 PM	RICHARD BONDS	DP-25
2016015264	MCGUIRE	26-May-16 2:35 PM	RICHARD BONDS	DP-27
2016015265	MCGUIRE	26-May-16 3:35 PM	RICHARD BONDS	DP-28

12 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
All Results are less than the laboratory reporting limits.	☐ Yes	☑ No
All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No

Report Sections Included:

- ☑ Job Summary Report
- ☑ Sample Identification
- ☑ Technical Validation of Data Package
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports, & Documentation
- ☐ Customer Database Entries
- ☑ Chain of Custody
- ☑ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: DBA Account Date: 6/14/2016

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050760

Site: DP-14 **Sample #: 2016015254**

Collection Date: 24-May-16 3:10 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-15 **Sample #: 2016015255**

Collection Date: 24-May-16 4:25 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050760

Site: DP-16 **Sample #: 2016015256**

Collection Date: 24-May-16 5:20 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-20 **Sample #: 2016015257**

Collection Date: 25-May-16 10:05 AM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-21 **Sample #: 2016015258**

Collection Date: 25-May-16 11:15 AM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050760

Site: DP-22 **Sample #: 2016015259**

Collection Date: 25-May-16 1:25 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-23 **Sample #: 2016015260**

Collection Date: 25-May-16 2:25 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-24 **Sample #: 2016015261**

Collection Date: 25-May-16 3:35 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050760

Site: DP-26 **Sample #: 2016015262**

Collection Date: 25-May-16 4:45 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-25 **Sample #: 2016015263**

Collection Date: 26-May-16 12:00 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050760

Site: DP-27 **Sample #: 2016015264**

Collection Date: 26-May-16 2:35 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050760

Site: DP-28 **Sample #: 2016015265**

Collection Date: 26-May-16 3:35 PM Matrix: GW_WW

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
Volatiles by GCMS EPA 8260 - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 21, 2016

Program Manager
Duke Energy

,

RE: Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Dear Program Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 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.

PROJECT REVISED 6/21/16 - SAMPLE ID'S CHANGED AT CLIENT REQUEST

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

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
HORIZON Database Administrator

Enclosures

cc: Richard Bonds
Program Manager, Duke Energy

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

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

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SAMPLE ANALYTE COUNT

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92299441001	**2016015254 DP-14**	EPA 8260	NB	49	PASI-C
92299441002	**2016015255 DP-15**	EPA 8260	NB	49	PASI-C
92299441003	**2016015256 DP-16**	EPA 8260	NB	49	PASI-C
92299441004	**2016015257 DP-20**	EPA 8260	NB	49	PASI-C
92299441005	**2016015258 DP-21**	EPA 8260	NB	49	PASI-C
92299441006	**2016015259 DP-22**	EPA 8260	NB	49	PASI-C
92299441007	**2016015260 DP-23**	EPA 8260	NB	49	PASI-C
92299441008	**2016015261 DP-24**	EPA 8260	NB	49	PASI-C
92299441009	**2016015262 DP-26**	EPA 8260	NB	49	PASI-C
92299441010	**2016015263 DP-25**	EPA 8260	NB	49	PASI-C
92299441011	**2016015264 DP-27**	EPA 8260	NB	49	PASI-C
92299441012	**2016015265 DP-28**	EPA 8260	NB	49	PASI-C

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92299441002	**2016015255 DP-15**					
EPA 8260	Toluene	1.7	ug/L	1.0	06/01/16 06:02	C8

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Huntersville, NC 28078
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PROJECT NARRATIVE

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: June 21, 2016

General Information:
12 samples were 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.

QC Batch: MSV/37097

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1746502)
  - Bromomethane
  - trans-1,4-Dichloro-2-butene

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

QC Batch: MSV/37080

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92299441005

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

- MS (Lab ID: 1746141)
  - 1,1,1-Trichloroethane
  - 2-Hexanone
  - 4-Methyl-2-pentanone (MIBK)
  - Bromomethane
  - Carbon disulfide
  - Carbon tetrachloride

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9800 Kincey Ave. Suite 100
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(704)875-9092

PROJECT NARRATIVE

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: June 21, 2016

QC Batch: MSV/37080

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92299441005

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

- Chloroethane
- Chloromethane
- Styrene
- Trichlorofluoromethane
- Vinyl chloride
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene

QC Batch: MSV/37097

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92299219005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1746503)
  - Bromomethane

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

- MS (Lab ID: 1746503)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,1-Trichloroethane
  - 1,1,2-Trichloroethane
  - 1,1-Dichloroethane
  - 1,2-Dibromo-3-chloropropane
  - 1,2-Dibromoethane (EDB)
  - 1,2-Dichlorobenzene
  - 1,2-Dichloroethane
  - 1,4-Dichlorobenzene
  - Bromochloromethane
  - Bromodichloromethane
  - Carbon tetrachloride
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromomethane
  - Ethylbenzene
  - Methylene Chloride
  - Styrene
  - Trichlorofluoromethane
  - Vinyl chloride
  - cis-1,2-Dichloroethene
  - m&p-Xylene
  - o-Xylene
  - trans-1,2-Dichloroethene
- MSD (Lab ID: 1746504)
  - Carbon disulfide
  - Trichlorofluoromethane

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9800 Kincey Ave. Suite 100
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PROJECT NARRATIVE

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: June 21, 2016

QC Batch: MSV/37097

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92299219005

R1: RPD value was outside control limits.

- MSD (Lab ID: 1746504)
  - Iodomethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/37080

1g: Client provided 3 vials. All 3 vials were 50% soil. Had to combine 2 vials into 1 vial to have enough volume for a 1x run. This run contained carryover for toluene. Cannot preform corrective action (rerun 1x) because the remaining vial has too much soil. Therefore, reported run will have appropriate carryover flag on toluene.

- 2016015255 DP-15 (Lab ID: 92299441002)
  - 4-Bromofluorobenzene (S)

C8: Result may be biased high due to carryover from previously analyzed sample.

- 2016015255 DP-15 (Lab ID: 92299441002)
  - Toluene

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

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015254 DP-14 **Lab ID: 92299441001** Collected: 05/24/16 15:10 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 20:14	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 20:14	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 20:14	74-83-9	L3
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 20:14	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 20:14	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 20:14	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 20:14	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 20:14	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 20:14	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 20:14	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 20:14	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 20:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 20:14	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 20:14	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 20:14	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 20:14	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 20:14	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 20:14	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 20:14	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015254 DP-14 **Lab ID: 92299441001** Collected: 05/24/16 15:10 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		06/01/16 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/01/16 20:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 20:14	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015255 DP-15 **Lab ID: 92299441002** Collected: 05/24/16 16:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 06:02	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 06:02	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 06:02	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 06:02	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 06:02	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 06:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 06:02	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 06:02	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 06:02	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 06:02	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 06:02	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 06:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 06:02	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	127-18-4	
Toluene	**1.7**	ug/L	1.0	1		06/01/16 06:02	108-88-3	C8
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 06:02	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 06:02	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 06:02	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 06:02	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 06:02	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 06:02	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015255 DP-15 **Lab ID: 92299441002** Collected: 05/24/16 16:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/01/16 06:02	460-00-4	1g
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		06/01/16 06:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 06:02	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015256 DP-16 **Lab ID: 92299441003** Collected: 05/24/16 17:20 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 20:31	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 20:31	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 20:31	74-83-9	L3
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 20:31	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 20:31	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 20:31	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 20:31	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 20:31	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 20:31	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 20:31	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 20:31	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 20:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 20:31	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 20:31	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 20:31	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 20:31	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 20:31	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 20:31	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 20:31	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015256 DP-16 **Lab ID: 92299441003** Collected: 05/24/16 17:20 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		06/01/16 20:31	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/01/16 20:31	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 20:31	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015257 DP-20 **Lab ID: 92299441004** Collected: 05/24/16 10:05 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 20:48	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 20:48	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 20:48	74-83-9	L3
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 20:48	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 20:48	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 20:48	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 20:48	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 20:48	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 20:48	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 20:48	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 20:48	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 20:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 20:48	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 20:48	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 20:48	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 20:48	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 20:48	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 20:48	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 20:48	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015257 DP-20 **Lab ID: 92299441004** Collected: 05/24/16 10:05 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/01/16 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		06/01/16 20:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015258 DP-21 **Lab ID: 92299441005** Collected: 05/24/16 11:15 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 07:10	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 07:10	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 07:10	74-83-9	M1
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 07:10	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 07:10	75-15-0	M1
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 07:10	56-23-5	M1
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-00-3	M1
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 07:10	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	74-87-3	M1
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 07:10	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 07:10	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	156-59-2	M1
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	156-60-5	M1
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 07:10	591-78-6	M1
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 07:10	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 07:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 07:10	108-10-1	M1
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	100-42-5	M1
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	71-55-6	M1
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-69-4	M1
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 07:10	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 07:10	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 07:10	75-01-4	M1
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 07:10	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 07:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 07:10	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015258 DP-21 **Lab ID: 92299441005** Collected: 05/24/16 11:15 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/01/16 07:10	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/01/16 07:10	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 07:10	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015259 DP-22 **Lab ID: 92299441006** Collected: 05/24/16 13:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 07:27	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 07:27	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 07:27	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 07:27	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 07:27	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 07:27	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 07:27	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 07:27	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 07:27	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 07:27	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 07:27	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 07:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 07:27	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 07:27	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 07:27	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 07:27	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 07:27	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 07:27	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 07:27	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015259 DP-22 **Lab ID: 92299441006** Collected: 05/24/16 13:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/01/16 07:27	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/01/16 07:27	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 07:27	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015260 DP-23 **Lab ID: 92299441007** Collected: 05/24/16 14:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 07:45	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 07:45	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 07:45	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 07:45	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 07:45	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 07:45	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 07:45	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 07:45	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 07:45	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 07:45	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 07:45	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 07:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 07:45	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 07:45	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 07:45	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 07:45	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 07:45	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 07:45	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 07:45	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015260 DP-23 **Lab ID: 92299441007** Collected: 05/24/16 14:25 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/01/16 07:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/01/16 07:45	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/01/16 07:45	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015261 DP-24 **Lab ID: 92299441008** Collected: 05/24/16 15:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 08:02	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 08:02	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 08:02	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 08:02	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 08:02	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 08:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 08:02	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 08:02	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 08:02	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 08:02	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 08:02	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 08:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 08:02	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 08:02	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 08:02	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 08:02	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 08:02	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 08:02	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 08:02	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015261 DP-24 **Lab ID: 92299441008** Collected: 05/24/16 15:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/01/16 08:02	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/01/16 08:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 08:02	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015262 DP-26 **Lab ID: 92299441009** Collected: 05/24/16 16:45 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 08:19	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 08:19	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 08:19	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 08:19	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 08:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 08:19	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 08:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 08:19	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 08:19	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 08:19	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 08:19	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 08:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 08:19	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 08:19	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 08:19	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 08:19	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 08:19	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 08:19	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 08:19	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015262 DP-26 **Lab ID: 92299441009** Collected: 05/24/16 16:45 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/01/16 08:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/01/16 08:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 08:19	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015263 DP-25 **Lab ID: 92299441010** Collected: 05/24/16 12:00 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 08:36	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 08:36	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 08:36	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 08:36	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 08:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 08:36	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 08:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 08:36	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 08:36	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 08:36	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 08:36	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 08:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 08:36	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 08:36	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 08:36	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 08:36	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 08:36	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 08:36	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 08:36	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015263 DP-25 **Lab ID: 92299441010** Collected: 05/24/16 12:00 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		06/01/16 08:36	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		06/01/16 08:36	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 08:36	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015264 DP-27 **Lab ID: 92299441011** Collected: 05/24/16 14:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 08:53	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 08:53	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 08:53	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 08:53	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 08:53	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 08:53	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 08:53	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 08:53	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 08:53	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 08:53	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 08:53	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 08:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 08:53	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 08:53	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 08:53	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 08:53	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 08:53	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 08:53	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 08:53	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015264 DP-27 **Lab ID: 92299441011** Collected: 05/24/16 14:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		06/01/16 08:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/01/16 08:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/01/16 08:53	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015265 DP-28 **Lab ID: 92299441012** Collected: 05/24/16 15:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		06/01/16 09:10	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		06/01/16 09:10	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		06/01/16 09:10	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		06/01/16 09:10	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		06/01/16 09:10	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		06/01/16 09:10	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		06/01/16 09:10	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		06/01/16 09:10	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		06/01/16 09:10	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	110-57-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	156-60-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		06/01/16 09:10	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		06/01/16 09:10	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		06/01/16 09:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		06/01/16 09:10	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		06/01/16 09:10	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		06/01/16 09:10	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		06/01/16 09:10	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		06/01/16 09:10	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		06/01/16 09:10	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		06/01/16 09:10	95-47-6	

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ANALYTICAL RESULTS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Sample: 2016015265 DP-28 **Lab ID: 92299441012** Collected: 05/24/16 15:35 Received: 05/27/16 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		06/01/16 09:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		06/01/16 09:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/01/16 09:10	2037-26-5	

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

QC Batch: MSV/37080 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92299441002, 92299441005, 92299441006, 92299441007, 92299441008, 92299441009, 92299441010, 92299441011, 92299441012

METHOD BLANK: 1745501 Matrix: Water
Associated Lab Samples: 92299441002, 92299441005, 92299441006, 92299441007, 92299441008, 92299441009, 92299441010, 92299441011, 92299441012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/31/16 23:47	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	05/31/16 23:47	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	05/31/16 23:47	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/31/16 23:47	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/31/16 23:47	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/31/16 23:47	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/31/16 23:47	
2-Hexanone	ug/L	<5.0	5.0	05/31/16 23:47	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/31/16 23:47	
Acetone	ug/L	<25.0	25.0	05/31/16 23:47	
Acrylonitrile	ug/L	<10.0	10.0	05/31/16 23:47	
Benzene	ug/L	<1.0	1.0	05/31/16 23:47	
Bromochloromethane	ug/L	<1.0	1.0	05/31/16 23:47	
Bromodichloromethane	ug/L	<1.0	1.0	05/31/16 23:47	
Bromoform	ug/L	<1.0	1.0	05/31/16 23:47	
Bromomethane	ug/L	<2.0	2.0	05/31/16 23:47	
Carbon disulfide	ug/L	<2.0	2.0	05/31/16 23:47	
Carbon tetrachloride	ug/L	<1.0	1.0	05/31/16 23:47	
Chlorobenzene	ug/L	<1.0	1.0	05/31/16 23:47	
Chloroethane	ug/L	<1.0	1.0	05/31/16 23:47	
Chloroform	ug/L	<1.0	1.0	05/31/16 23:47	
Chloromethane	ug/L	<1.0	1.0	05/31/16 23:47	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/31/16 23:47	
Dibromochloromethane	ug/L	<1.0	1.0	05/31/16 23:47	
Dibromomethane	ug/L	<1.0	1.0	05/31/16 23:47	
Ethylbenzene	ug/L	<1.0	1.0	05/31/16 23:47	
Iodomethane	ug/L	<5.0	5.0	05/31/16 23:47	
m&p-Xylene	ug/L	<2.0	2.0	05/31/16 23:47	
Methylene Chloride	ug/L	<2.0	2.0	05/31/16 23:47	
o-Xylene	ug/L	<1.0	1.0	05/31/16 23:47	
Styrene	ug/L	<1.0	1.0	05/31/16 23:47	
Tetrachloroethene	ug/L	<1.0	1.0	05/31/16 23:47	
Toluene	ug/L	<1.0	1.0	05/31/16 23:47	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/31/16 23:47	

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

METHOD BLANK: 1745501 Matrix: Water

Associated Lab Samples: 92299441002, 92299441005, 92299441006, 92299441007, 92299441008, 92299441009, 92299441010, 92299441011, 92299441012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	05/31/16 23:47	
Trichloroethene	ug/L	<1.0	1.0	05/31/16 23:47	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/31/16 23:47	
Vinyl acetate	ug/L	<2.0	2.0	05/31/16 23:47	
Vinyl chloride	ug/L	<1.0	1.0	05/31/16 23:47	
Xylene (Total)	ug/L	<2.0	2.0	05/31/16 23:47	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/31/16 23:47	
4-Bromofluorobenzene (S)	%	99	70-130	05/31/16 23:47	
Toluene-d8 (S)	%	99	70-130	05/31/16 23:47	

LABORATORY CONTROL SAMPLE: 1745502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	25	24.6	98	70-130	
1,1,1-Trichloroethane	ug/L	25	26.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	25	24.1	96	70-130	
1,1,2-Trichloroethane	ug/L	25	26.3	105	70-130	
1,1-Dichloroethane	ug/L	25	26.1	104	70-130	
1,1-Dichloroethene	ug/L	25	26.3	105	70-132	
1,2,3-Trichloropropane	ug/L	25	24.9	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	25	23.5	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	25	26.7	107	70-130	
1,2-Dichlorobenzene	ug/L	25	26.5	106	70-130	
1,2-Dichloroethane	ug/L	25	26.0	104	70-130	
1,4-Dichlorobenzene	ug/L	25	24.2	97	70-130	
2-Butanone (MEK)	ug/L	50	58.7	117	70-145	
2-Hexanone	ug/L	50	53.1	106	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.4	113	70-140	
Acetone	ug/L	50	60.8	122	50-175	
Acrylonitrile	ug/L	125	131	105	70-143	
Benzene	ug/L	25	25.6	103	70-130	
Bromochloromethane	ug/L	25	27.6	110	70-130	
Bromodichloromethane	ug/L	25	26.4	105	70-130	
Bromoform	ug/L	25	22.6	90	70-130	
Bromomethane	ug/L	25	16.7	67	54-130	
Carbon disulfide	ug/L	25	27.6	111	70-131	
Carbon tetrachloride	ug/L	25	26.7	107	70-132	
Chlorobenzene	ug/L	25	25.5	102	70-130	
Chloroethane	ug/L	25	24.4	98	64-134	
Chloroform	ug/L	25	26.3	105	70-130	
Chloromethane	ug/L	25	17.7	71	64-130	
cis-1,2-Dichloroethene	ug/L	25	27.3	109	70-131	
Dibromochloromethane	ug/L	25	25.0	100	70-130	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

LABORATORY CONTROL SAMPLE: 1745502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	25	26.8	107	70-131	
Ethylbenzene	ug/L	25	24.6	98	70-130	
Iodomethane	ug/L	50	33.7	67	49-180	
m&p-Xylene	ug/L	50	48.2	96	70-130	
Methylene Chloride	ug/L	25	26.4	106	63-130	
o-Xylene	ug/L	25	24.1	96	70-130	
Styrene	ug/L	25	25.7	103	70-130	
Tetrachloroethene	ug/L	25	22.2	89	70-130	
Toluene	ug/L	25	25.6	102	70-130	
trans-1,2-Dichloroethene	ug/L	25	27.3	109	70-130	
trans-1,4-Dichloro-2-butene	ug/L	25	34.2	137	70-141	
Trichloroethene	ug/L	25	25.2	101	70-130	
Trichlorofluoromethane	ug/L	25	28.6	114	62-133	
Vinyl acetate	ug/L	50	57.2	114	66-157	
Vinyl chloride	ug/L	25	26.2	105	50-150	
Xylene (Total)	ug/L	75	72.3	96	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1746141

Parameter	Units	92299441005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	20	24.6	123	70-130	
1,1,1-Trichloroethane	ug/L	<1.0	20	26.7	133	70-130	M1
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	23.8	119	70-130	
1,1,2-Trichloroethane	ug/L	<1.0	20	24.5	123	70-130	
1,1-Dichloroethane	ug/L	<1.0	20	25.7	129	70-130	
1,1-Dichloroethene	ug/L	<1.0	20	28.4	142	70-166	
1,2,3-Trichloropropane	ug/L	<1.0	20	23.0	115	70-130	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	20	25.0	125	70-130	
1,2-Dibromoethane (EDB)	ug/L	<1.0	20	25.6	128	70-130	
1,2-Dichlorobenzene	ug/L	<1.0	20	25.8	129	70-130	
1,2-Dichloroethane	ug/L	<1.0	20	23.9	119	70-130	
1,4-Dichlorobenzene	ug/L	<1.0	20	25.0	125	70-130	
2-Butanone (MEK)	ug/L	<5.0	40	51.1	128	70-130	
2-Hexanone	ug/L	<5.0	40	52.7	132	70-130	M1
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	52.7	132	70-130	M1
Acetone	ug/L	<25.0	40	50.9	121	70-130	
Acrylonitrile	ug/L	<10.0	100	120	120	70-130	
Benzene	ug/L	<1.0	20	25.9	130	70-148	
Bromochloromethane	ug/L	<1.0	20	24.7	124	70-130	
Bromodichloromethane	ug/L	<1.0	20	25.6	128	70-130	
Bromoform	ug/L	<1.0	20	22.6	113	70-130	
Bromomethane	ug/L	<2.0	20	29.1	145	70-130	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

MATRIX SPIKE SAMPLE: 1746141

Parameter	Units	92299441005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	<2.0	20	29.0	145	70-130	M1
Carbon tetrachloride	ug/L	<1.0	20	27.8	139	70-130	M1
Chlorobenzene	ug/L	<1.0	20	26.1	131	70-146	
Chloroethane	ug/L	<1.0	20	28.7	144	70-130	M1
Chloroform	ug/L	<1.0	20	25.4	127	70-130	
Chloromethane	ug/L	<1.0	20	29.1	145	70-130	M1
cis-1,2-Dichloroethene	ug/L	<1.0	20	26.2	131	70-130	M1
Dibromochloromethane	ug/L	<1.0	20	24.1	121	70-130	
Dibromomethane	ug/L	<1.0	20	24.5	123	70-130	
Ethylbenzene	ug/L	<1.0	20	26.1	130	70-130	
Iodomethane	ug/L	<5.0	40	39.8	99	70-130	
m&p-Xylene	ug/L	<2.0	40	51.6	128	70-130	
Methylene Chloride	ug/L	<2.0	20	25.7	129	70-130	
o-Xylene	ug/L	<1.0	20	25.1	126	70-130	
Styrene	ug/L	<1.0	20	26.2	131	70-130	M1
Tetrachloroethene	ug/L	<1.0	20	25.0	125	70-130	
Toluene	ug/L	<1.0	20	26.4	129	70-155	
trans-1,2-Dichloroethene	ug/L	<1.0	20	27.3	136	70-130	M1
trans-1,4-Dichloro-2-butene	ug/L	<1.0	20	22.2	111	70-130	
Trichloroethene	ug/L	<1.0	20	24.6	123	69-151	
Trichlorofluoromethane	ug/L	<1.0	20	32.7	163	70-130	M1
Vinyl acetate	ug/L	<2.0	40	48.6	122	70-130	
Vinyl chloride	ug/L	<1.0	20	29.2	146	70-130	M1
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1746142

Parameter	Units	92299441006 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

SAMPLE DUPLICATE: 1746142

Parameter	Units	92299441006 Result	Dup Result	RPD	Qualifiers
Acetone	ug/L	<25.0	<25.0		
Acrylonitrile	ug/L	<10.0	<10.0		
Benzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<2.0	<2.0		
Carbon disulfide	ug/L	<2.0	<2.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Iodomethane	ug/L	<5.0	<5.0		
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<2.0	<2.0		
o-Xylene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl acetate	ug/L	<2.0	<2.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloroethane-d4 (S)	%	103	101	2	
4-Bromofluorobenzene (S)	%	99	98	1	
Toluene-d8 (S)	%	101	99	2	

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

QC Batch: MSV/37097 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92299441001, 92299441003, 92299441004

METHOD BLANK: 1746501 Matrix: Water
Associated Lab Samples: 92299441001, 92299441003, 92299441004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,1-Dichloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,1-Dichloroethene	ug/L	<1.0	1.0	06/01/16 18:15	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	06/01/16 18:15	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	06/01/16 18:15	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	06/01/16 18:15	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	06/01/16 18:15	
1,2-Dichloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	06/01/16 18:15	
2-Butanone (MEK)	ug/L	<5.0	5.0	06/01/16 18:15	
2-Hexanone	ug/L	<5.0	5.0	06/01/16 18:15	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	06/01/16 18:15	
Acetone	ug/L	<25.0	25.0	06/01/16 18:15	
Acrylonitrile	ug/L	<10.0	10.0	06/01/16 18:15	
Benzene	ug/L	<1.0	1.0	06/01/16 18:15	
Bromochloromethane	ug/L	<1.0	1.0	06/01/16 18:15	
Bromodichloromethane	ug/L	<1.0	1.0	06/01/16 18:15	
Bromoform	ug/L	<1.0	1.0	06/01/16 18:15	
Bromomethane	ug/L	<2.0	2.0	06/01/16 18:15	
Carbon disulfide	ug/L	<2.0	2.0	06/01/16 18:15	
Carbon tetrachloride	ug/L	<1.0	1.0	06/01/16 18:15	
Chlorobenzene	ug/L	<1.0	1.0	06/01/16 18:15	
Chloroethane	ug/L	<1.0	1.0	06/01/16 18:15	
Chloroform	ug/L	<1.0	1.0	06/01/16 18:15	
Chloromethane	ug/L	<1.0	1.0	06/01/16 18:15	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	06/01/16 18:15	
Dibromochloromethane	ug/L	<1.0	1.0	06/01/16 18:15	
Dibromomethane	ug/L	<1.0	1.0	06/01/16 18:15	
Ethylbenzene	ug/L	<1.0	1.0	06/01/16 18:15	
Iodomethane	ug/L	<5.0	5.0	06/01/16 18:15	
m&p-Xylene	ug/L	<2.0	2.0	06/01/16 18:15	
Methylene Chloride	ug/L	<2.0	2.0	06/01/16 18:15	
o-Xylene	ug/L	<1.0	1.0	06/01/16 18:15	
Styrene	ug/L	<1.0	1.0	06/01/16 18:15	
Tetrachloroethene	ug/L	<1.0	1.0	06/01/16 18:15	
Toluene	ug/L	<1.0	1.0	06/01/16 18:15	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	06/01/16 18:15	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	06/01/16 18:15	

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

METHOD BLANK: 1746501 Matrix: Water
Associated Lab Samples: 92299441001, 92299441003, 92299441004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	<1.0	1.0	06/01/16 18:15	
Trichlorofluoromethane	ug/L	<1.0	1.0	06/01/16 18:15	
Vinyl acetate	ug/L	<2.0	2.0	06/01/16 18:15	
Vinyl chloride	ug/L	<1.0	1.0	06/01/16 18:15	
Xylene (Total)	ug/L	<2.0	2.0	06/01/16 18:15	
1,2-Dichloroethane-d4 (S)	%	100	70-130	06/01/16 18:15	
4-Bromofluorobenzene (S)	%	100	70-130	06/01/16 18:15	
Toluene-d8 (S)	%	101	70-130	06/01/16 18:15	

LABORATORY CONTROL SAMPLE: 1746502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.2	112	70-130	
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.6	107	70-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	55.7	111	70-130	
1,1-Dichloroethene	ug/L	50	60.3	121	70-132	
1,2,3-Trichloropropane	ug/L	50	51.5	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.4	119	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	57.8	116	70-130	
1,2-Dichlorobenzene	ug/L	50	58.1	116	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
1,4-Dichlorobenzene	ug/L	50	55.0	110	70-130	
2-Butanone (MEK)	ug/L	100	109	109	70-145	
2-Hexanone	ug/L	100	116	116	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	70-140	
Acetone	ug/L	100	108	108	50-175	
Acrylonitrile	ug/L	250	259	104	70-143	
Benzene	ug/L	50	55.6	111	70-130	
Bromochloromethane	ug/L	50	56.9	114	70-130	
Bromodichloromethane	ug/L	50	56.4	113	70-130	
Bromoform	ug/L	50	48.3	97	70-130	
Bromomethane	ug/L	50	67.1	134	54-130	L0
Carbon disulfide	ug/L	50	60.5	121	70-131	
Carbon tetrachloride	ug/L	50	59.8	120	70-132	
Chlorobenzene	ug/L	50	57.4	115	70-130	
Chloroethane	ug/L	50	52.7	105	64-134	
Chloroform	ug/L	50	55.6	111	70-130	
Chloromethane	ug/L	50	62.4	125	64-130	
cis-1,2-Dichloroethene	ug/L	50	55.4	111	70-131	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dibromomethane	ug/L	50	54.8	110	70-131	
Ethylbenzene	ug/L	50	56.3	113	70-130	

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QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

LABORATORY CONTROL SAMPLE: 1746502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodomethane	ug/L	100	89.2	89	49-180	
m&p-Xylene	ug/L	100	112	112	70-130	
Methylene Chloride	ug/L	50	54.3	109	63-130	
o-Xylene	ug/L	50	54.9	110	70-130	
Styrene	ug/L	50	57.8	116	70-130	
Tetrachloroethene	ug/L	50	53.1	106	70-130	
Toluene	ug/L	50	55.5	111	70-130	
trans-1,2-Dichloroethene	ug/L	50	58.2	116	70-130	
trans-1,4-Dichloro-2-butene	ug/L	50	85.2	170	70-141	L0
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	65.5	131	62-133	
Vinyl acetate	ug/L	100	108	108	66-157	
Vinyl chloride	ug/L	50	62.3	125	50-150	
Xylene (Total)	ug/L	150	167	111	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1746503 1746504

Parameter	Units	92299219005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	26.3	20.7	132	104	70-130	24	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	28.6	23.1	143	116	70-130	21	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	25.4	18.9	127	94	70-130	29	
1,1,2-Trichloroethane	ug/L	ND	20	20	26.5	20.3	133	101	70-130	27	M1
1,1-Dichloroethane	ug/L	ND	20	20	28.3	22.4	142	112	70-130	23	M1
1,1-Dichloroethene	ug/L	ND	20	20	29.7	24.3	148	121	70-166	20	
1,2,3-Trichloropropane	ug/L	ND	20	20	25.6	19.9	128	99	70-130	25	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	26.6	20.4	133	102	70-130	27	M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	28.4	21.9	142	109	70-130	26	M1
1,2-Dichlorobenzene	ug/L	ND	20	20	27.6	21.9	138	110	70-130	23	M1
1,2-Dichloroethane	ug/L	ND	20	20	26.8	20.6	134	103	70-130	26	M1
1,4-Dichlorobenzene	ug/L	ND	20	20	26.2	21.2	131	106	70-130	21	M1
2-Butanone (MEK)	ug/L	ND	40	40	43.4	43.6	109	109	70-130	1	
2-Hexanone	ug/L	ND	40	40	45.7	45.7	114	114	70-130	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	45.8	47.8	115	119	70-130	4	
Acetone	ug/L	ND	40	40	43.7	44.0	109	110	70-130	1	
Acrylonitrile	ug/L	ND	100	100	121	95.1	121	95	70-130	24	
Benzene	ug/L	ND	20	20	27.8	22.3	139	112	70-148	22	
Bromochloromethane	ug/L	ND	20	20	27.5	22.0	138	110	70-130	23	M1
Bromodichloromethane	ug/L	ND	20	20	27.0	21.4	135	107	70-130	23	M1
Bromoform	ug/L	ND	20	20	23.5	18.5	117	92	70-130	24	
Bromomethane	ug/L	ND	20	20	12.8	16.9	64	84	70-130	28	M0
Carbon disulfide	ug/L	ND	20	20	24.2	26.2	121	131	70-130	8	M1

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.

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1746503 1746504

Parameter	Units	92299219005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Carbon tetrachloride	ug/L	ND	20	20	29.5	24.0	148	120	70-130	21	M1
Chlorobenzene	ug/L	ND	20	20	27.8	21.9	139	109	70-146	24	
Chloroethane	ug/L	ND	20	20	30.3	24.4	152	122	70-130	21	M1
Chloroform	ug/L	ND	20	20	27.9	22.2	140	111	70-130	23	M1
Chloromethane	ug/L	ND	20	20	29.0	23.2	145	116	70-130	22	M1
cis-1,2-Dichloroethene	ug/L	ND	20	20	28.0	22.1	140	110	70-130	24	M1
Dibromochloromethane	ug/L	ND	20	20	25.9	19.8	130	99	70-130	27	
Dibromomethane	ug/L	ND	20	20	27.5	20.9	138	104	70-130	27	M1
Ethylbenzene	ug/L	ND	20	20	27.4	21.8	137	109	70-130	23	M1
Iodomethane	ug/L	ND	40	40	27.9	38.5	70	96	70-130	32	R1
m&p-Xylene	ug/L	ND	40	40	53.5	42.9	134	107	70-130	22	M1
Methylene Chloride	ug/L	ND	20	20	27.8	21.9	137	107	70-130	24	M1
o-Xylene	ug/L	ND	20	20	26.2	21.1	131	105	70-130	22	M1
Styrene	ug/L	ND	20	20	27.7	22.0	138	110	70-130	23	M1
Tetrachloroethene	ug/L	ND	20	20	24.7	20.8	123	104	70-130	17	
Toluene	ug/L	ND	20	20	26.9	22.1	134	111	70-155	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	29.5	22.8	147	114	70-130	25	M1
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	18.7	17.5	93	87	70-130	7	
Trichloroethene	ug/L	ND	20	20	26.5	22.1	132	110	69-151	18	
Trichlorofluoromethane	ug/L	ND	20	20	34.2	28.0	171	140	70-130	20	M1
Vinyl acetate	ug/L	ND	40	40	49.0	37.6	122	94	70-130	26	
Vinyl chloride	ug/L	ND	20	20	30.9	24.9	154	124	70-130	22	M1
1,2-Dichloroethane-d4 (S)	%						99	97	70-130		
4-Bromofluorobenzene (S)	%						99	97	70-130		
Toluene-d8 (S)	%						98	99	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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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

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

ANALYTE QUALIFIERS

1g	Client provided 3 vials. All 3 vials were 50% soil. Had to combine 2 vials into 1 vial to have enough volume for a 1x run. This run contained carryover for toluene. Cannot preform corrective action (rerun 1x) because the remaining vial has too much soil. Therefore, reported run will have appropriate carryover flag on toluene.
C8	Result may be biased high due to carryover from previously analyzed sample.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16050760 MCGUIRE LF
Pace Project No.: 92299441

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92299441001	**2016015254 DP-14**	EPA 8260	MSV/37097		
92299441002	**2016015255 DP-15**	EPA 8260	MSV/37080		
92299441003	**2016015256 DP-16**	EPA 8260	MSV/37097		
92299441004	**2016015257 DP-20**	EPA 8260	MSV/37097		
92299441005	**2016015258 DP-21**	EPA 8260	MSV/37080		
92299441006	**2016015259 DP-22**	EPA 8260	MSV/37080		
92299441007	**2016015260 DP-23**	EPA 8260	MSV/37080		
92299441008	**2016015261 DP-24**	EPA 8260	MSV/37080		
92299441009	**2016015262 DP-26**	EPA 8260	MSV/37080		
92299441010	**2016015263 DP-25**	EPA 8260	MSV/37080		
92299441011	**2016015264 DP-27**	EPA 8260	MSV/37080		
92299441012	**2016015265 DP-28**	EPA 8260	MSV/37080		

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Sample Condition Upon Receipt

Client Name: Same / Duke

Project #: **WO# : 92299441**

92299441

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 5/27 TMS

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):** 4.1 **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/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☑ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	10. HNC3 pH<2 HCl pH<2 H2SO4 pH<2 NaOH pH>12 NaOH/ZnOAc pH>9
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☑ Yes	☐ No	☐ N/A	
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	11.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	12.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	13.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: KCH **Date:** 5/27/16

Project Manager SRF Review: KCH **Date:** 5/31/16

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)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J160 50760

Section A Required Client Information:
Company: S&ME
Address: 301 Zima Park Rd
Spbg, SC 29301
Email To: jwhitehead@SME INC.
Phone: 864-574-2360 Fax: .com
Requested Due Date/TAT: 6-4-16

Section B Required Project Information:
Report To: Duke Energy / Williamson John
Copy To: S&ME / John Whitehead
Purchase Order No.: 111 5040
Project Name: McGuire NS GF
Project Number: J160 50592

Section C Invoice Information:
Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

Pace PO 1115040

Page: 1 of 1

2043509

REGULATORY AGENCY: NPDES / GROUND WATER ✓ / DRINKING WATER / UST / RCRA / OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: VOCs

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-14	20K015254	WT	G	5/24/16	15:10				3				X					X		001
2	DP-15	5255	WT	G	5/24	16:25				3				X					X		002
3	DP-16	5256	WT	G	5/24	17:20				3				X					X		003
4	DP-20	5257	WT	G	5/25	10:05				3				X					X		004
5	DP-21	5258	WT	G	5/25	11:15				3				X					X		005
6	DP-22	5259	WT	G	5/25	13:25				3				X					X		006
7	DP-23	5260	WT	G	5/25	14:25				3				X					X		007
8	DP-24	5261	WT	G	5/25	15:35				3				X					X		008
9	DP-26	5262	WT	G	5/25	16:45				3				X					X		009
10	DP-25	5263	WT	G	5/26	12:00				3				X					X		010
11	DP-27	5264	WT	G	5/26	14:35				3				X					X		011
12	DP-28	5265	WT	G	5/26	15:35				3				X					X		012

92299441

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Richard Bonds / S&ME	5/26/16		[signature]	5/26/16	1555	
	[signature]	5-27-16	1002	[signature]	5-27-16	1002	
	[signature] pace	5-27-16	1414	[signature]	5/27	1414	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds DATE Signed (MM/DD/YY): 05/26/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J160 50760

Page: 1 of 1

2043509

Pace ✓
PO 1115040

Section A Required Client Information:
Company: S&ME
Address: 301 Zima Park Rd
Spbg, SC 29301
Email To: jwhitehead@SME INC.com
Phone: 864-574-2360 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Duke Energy / Williamson John
Copy To: S&ME / John Whitehead
Purchase Order No.: 111 5040
Project Name: McGuire NS GF
Project Number: J160 50592

Section C Invoice Information:
Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-14	20K015254	WT	G	5/24/16	15:10				3				X					X		
2	DP-15	5255	WT	G	5/24	16:25				3				X					X		
3	DP-16	5256	WT	G	5/24	17:20				3				X					X		
4	DP-20	5257	WT	G	5/25	10:05				3				X					X		
5	DP-21	5258	WT	G	5/25	11:15				3				X					X		
6	DP-22	5259	WT	G	5/25	13:25				3				X					X		
7	DP-23	5260	WT	G	5/25	14:25				3				X					X		
8	DP-24	5261	WT	G	5/25	15:35				3				X					X		
9	DP-26	5262	WT	G	5/25	16:45				3				X					X		
10	DP-25	5263	WT	G	5/26	12:00				3				X					X		
11	DP-27	5264	WT	G	5/26	14:35				3				X					X		
12	DP-28	5265	WT	G	5/26	15:35				3				X					X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Richard Bonds / S&ME	5/26/16		[signature]	5/26/16	1555	
	Betty Shtel	5-27-16	1002	[signature] pace	5-27-16	1009	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds DATE Signed (MM/DD/YY): 05/26/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	**J16050651**
Project Name:	MCGUIRE -
Customer Name(s):	John Williamson, John Whitehead
Customer Address:	13225 Hagers Ferry Rd Mail Code: MG01CH Huntersville, NC 28078-8985
Lab Contact:	Anne Pifer Phone: 980-875-3583
Report Authorized By: (Signature)	Digitally signed by Anne Pifer DN: cn=Anne Pifer, o, ou=Analytical Lab, email=anne.pifer@duke-energy.com, c=US Date: 2016.06.21 09:48:30 -04'00' **Date:** 6/21/2016

Anne Pifer

Program Comments:

Pace Report updated to include site identifications from the chain of custody. Please contact the Program Manager (Anne Pifer) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2016014828	MCGUIRE	20-May-16 3:30 PM	Richard Bonds(S&ME)	DP-5
2016014829	MCGUIRE	23-May-16 12:30 PM	Richard Bonds(S&ME)	DP-6
2016014830	MCGUIRE	23-May-16 2:30 PM	Richard Bonds(S&ME)	DP-7
2016014831	MCGUIRE	23-May-16 3:10 PM	Richard Bonds(S&ME)	DP-8
2016014832	MCGUIRE	23-May-16 3:55 PM	Richard Bonds(S&ME)	DP-9
2016014833	MCGUIRE	23-May-16 4:35 PM	Richard Bonds(S&ME)	DP-10
2016014834	MCGUIRE	24-May-16 10:55 AM	Richard Bonds(S&ME)	DP-11
2016014835	MCGUIRE	24-May-16 11:40 AM	Richard Bonds(S&ME)	DP-12

8 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
All Results are less than the laboratory reporting limits.	☐ Yes	☑ No
All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No

Report Sections Included:

- ☑ Job Summary Report
- ☑ Sample Identification
- ☑ Technical Validation of Data Package
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports, & Documentation
- ☐ Customer Database Entries
- ☑ Chain of Custody
- ☑ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Anne Pifer Date: 6/16/2016

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-5 **Sample #: 2016014828**

Collection Date: 20-May-16 3:30 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-6 **Sample #: 2016014829**

Collection Date: 23-May-16 12:30 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-7 **Sample #: 2016014830**

Collection Date: 23-May-16 2:30 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

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Order # J16050651

Site: DP-8 **Sample #: 2016014831**

Collection Date: 23-May-16 3:10 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-9 **Sample #: 2016014832**

Collection Date: 23-May-16 3:55 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-10 **Sample #: 2016014833**

Collection Date: 23-May-16 4:35 PM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-11 **Sample #: 2016014834**

Collection Date: 24-May-16 10:55 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J16050651

Site: DP-12 **Sample #: 2016014835**

Collection Date: 24-May-16 11:40 AM Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
VOLATILES - (Analysis Performed by Pace Laboratories)								
Vendor Parameter	**Complete**					Vendor Method		V_PACE

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 21, 2016

Program Manager
Duke Energy

,

RE: Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Dear Program Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 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.

PROJECT REVISED 6/21/16 - SAMPLE ID'S CHANGED AT CLIENT REQUEST

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

Sincerely,

C. Bishop

Chris Bishop for
Kevin Herring
kevin.herring@pacelabs.com
HORIZON Database Administrator

Enclosures

cc: Richard Bonds
Program Manager, Duke Energy

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

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

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SAMPLE ANALYTE COUNT

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92298969001	**2016014828 DP-5**	EPA 8260	CAH	52	PASI-C
92298969002	**2016014829 DP-6**	EPA 8260	CAH	52	PASI-C
92298969003	**2016014830 DP-7**	EPA 8260	CAH	52	PASI-C
92298969004	**2016014831 DP-8**	EPA 8260	CAH	52	PASI-C
92298969005	**2016014832 DP-9**	EPA 8260	CAH	52	PASI-C
92298969006	**2016014833 DP-10**	EPA 8260	CAH	52	PASI-C
92298969007	**2016014834 DP-11**	EPA 8260	CAH	52	PASI-C
92298969008	**2016014835 DP-12**	EPA 8260	CAH	52	PASI-C

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SUMMARY OF DETECTION

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92298969001	**2016014828 DP-5**					
EPA 8260	cis-1,2-Dichloroethene	8.4	ug/L	1.0	05/27/16 23:13	
EPA 8260	Methylene Chloride	2.0	ug/L	2.0	05/27/16 23:13	C9
EPA 8260	Xylene (Total)	10.6	ug/L	2.0	05/27/16 23:13	
EPA 8260	o-Xylene	10.6	ug/L	1.0	05/27/16 23:13	
92298969002	**2016014829 DP-6**					
EPA 8260	Benzene	3.6	ug/L	1.0	05/27/16 23:30	
EPA 8260	2-Butanone (MEK)	5.2	ug/L	5.0	05/27/16 23:30	
EPA 8260	cis-1,2-Dichloroethene	54.3	ug/L	1.0	05/27/16 23:30	
EPA 8260	Methylene Chloride	4.9	ug/L	2.0	05/27/16 23:30	C9
EPA 8260	Toluene	1.2	ug/L	1.0	05/27/16 23:30	
EPA 8260	Xylene (Total)	53.5	ug/L	2.0	05/27/16 23:30	
EPA 8260	o-Xylene	53.5	ug/L	1.0	05/27/16 23:30	
92298969004	**2016014831 DP-8**					
EPA 8260	cis-1,2-Dichloroethene	13.1	ug/L	1.0	05/28/16 00:04	
EPA 8260	Xylene (Total)	17.5	ug/L	2.0	05/28/16 00:04	
EPA 8260	o-Xylene	17.5	ug/L	1.0	05/28/16 00:04	

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PROJECT NARRATIVE

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: June 21, 2016

General Information:
8 samples were 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.

QC Batch: MSV/37021

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1743440)
  - trans-1,4-Dichloro-2-butene

QC Batch: MSV/37022

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1743445)
  - trans-1,4-Dichloro-2-butene

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

QC Batch: MSV/37021

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92298896003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1743442)
  - 1,1,1-Trichloroethane
  - 2-Butanone (MEK)
  - Acetone

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PROJECT NARRATIVE

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: Duke Energy
Date: June 21, 2016

QC Batch: MSV/37021

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92298896003

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

- Carbon disulfide
- Carbon tetrachloride
- Chloroethane
- Trichlorofluoromethane
- Vinyl acetate
- Vinyl chloride
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene

QC Batch: MSV/37022

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92299088004

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

- MS (Lab ID: 1744703)
  - Ethylbenzene
  - m&p-Xylene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/37021

C9: Common Laboratory Contaminant.

- 2016014828 DP-5 (Lab ID: 92298969001)
  - Methylene Chloride
- 2016014829 DP-6 (Lab ID: 92298969002)
  - Methylene Chloride

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

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014828 DP-5 **Lab ID: 92298969001** Collected: 05/20/16 15:50 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/27/16 23:13	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/27/16 23:13	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/27/16 23:13	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/27/16 23:13	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/27/16 23:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/27/16 23:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/27/16 23:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/27/16 23:13	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/27/16 23:13	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-35-4	
cis-1,2-Dichloroethene	**8.4**	ug/L	1.0	1		05/27/16 23:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/27/16 23:13	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/27/16 23:13	74-88-4	
Methylene Chloride	**2.0**	ug/L	2.0	1		05/27/16 23:13	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/27/16 23:13	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:13	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/27/16 23:13	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/27/16 23:13	75-01-4	
Xylene (Total)	**10.6**	ug/L	2.0	1		05/27/16 23:13	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014828 DP-5 **Lab ID: 92298969001** Collected: 05/20/16 15:50 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/27/16 23:13	179601-23-1	
o-Xylene	**10.6**	ug/L	1.0	1		05/27/16 23:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/27/16 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/27/16 23:13	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/27/16 23:13	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014829 DP-6 **Lab ID: 92298969002** Collected: 05/23/16 12:30 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/27/16 23:30	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/27/16 23:30	107-13-1	
Benzene	**3.6**	ug/L	1.0	1		05/27/16 23:30	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/27/16 23:30	74-83-9	
2-Butanone (MEK)	**5.2**	ug/L	5.0	1		05/27/16 23:30	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/27/16 23:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/27/16 23:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/27/16 23:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/27/16 23:30	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/27/16 23:30	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-35-4	
cis-1,2-Dichloroethene	**54.3**	ug/L	1.0	1		05/27/16 23:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/27/16 23:30	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/27/16 23:30	74-88-4	
Methylene Chloride	**4.9**	ug/L	2.0	1		05/27/16 23:30	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/27/16 23:30	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	127-18-4	
Toluene	**1.2**	ug/L	1.0	1		05/27/16 23:30	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:30	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/27/16 23:30	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/27/16 23:30	75-01-4	
Xylene (Total)	**53.5**	ug/L	2.0	1		05/27/16 23:30	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014829 DP-6 **Lab ID: 92298969002** Collected: 05/23/16 12:30 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/27/16 23:30	179601-23-1	
o-Xylene	**53.5**	ug/L	1.0	1		05/27/16 23:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/27/16 23:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/27/16 23:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/27/16 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014830 DP-7 **Lab ID: 92298969003** Collected: 05/23/16 14:30 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/27/16 23:47	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/27/16 23:47	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/27/16 23:47	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/27/16 23:47	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/27/16 23:47	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/27/16 23:47	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/27/16 23:47	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/27/16 23:47	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/27/16 23:47	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/27/16 23:47	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/27/16 23:47	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/27/16 23:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/27/16 23:47	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 23:47	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/27/16 23:47	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/27/16 23:47	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/27/16 23:47	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014830 DP-7 **Lab ID: 92298969003** Collected: 05/23/16 14:30 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/27/16 23:47	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/27/16 23:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		05/27/16 23:47	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		05/27/16 23:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/27/16 23:47	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014831 DP-8 **Lab ID: 92298969004** Collected: 05/23/16 15:10 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/28/16 00:04	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/28/16 00:04	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/28/16 00:04	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/28/16 00:04	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/28/16 00:04	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/28/16 00:04	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/28/16 00:04	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/28/16 00:04	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/28/16 00:04	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-35-4	
cis-1,2-Dichloroethene	**13.1**	ug/L	1.0	1		05/28/16 00:04	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/28/16 00:04	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/28/16 00:04	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/28/16 00:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/28/16 00:04	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:04	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:04	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/28/16 00:04	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/28/16 00:04	75-01-4	
Xylene (Total)	**17.5**	ug/L	2.0	1		05/28/16 00:04	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014831 DP-8 **Lab ID: 92298969004** Collected: 05/23/16 15:10 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/28/16 00:04	179601-23-1	
o-Xylene	**17.5**	ug/L	1.0	1		05/28/16 00:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/28/16 00:04	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		05/28/16 00:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/28/16 00:04	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014832 DP-9 **Lab ID: 92298969005** Collected: 05/23/16 15:55 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/28/16 00:21	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/28/16 00:21	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/28/16 00:21	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/28/16 00:21	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/28/16 00:21	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/28/16 00:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/28/16 00:21	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/28/16 00:21	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/28/16 00:21	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/28/16 00:21	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/28/16 00:21	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/28/16 00:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/28/16 00:21	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:21	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/28/16 00:21	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/28/16 00:21	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/28/16 00:21	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014832 DP-9 **Lab ID: 92298969005** Collected: 05/23/16 15:55 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/28/16 00:21	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/28/16 00:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/28/16 00:21	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/28/16 00:21	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/28/16 00:21	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014833 DP-10 **Lab ID: 92298969006** Collected: 05/23/16 16:35 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/28/16 00:38	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/28/16 00:38	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/28/16 00:38	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/28/16 00:38	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/28/16 00:38	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/28/16 00:38	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/28/16 00:38	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/28/16 00:38	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/28/16 00:38	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/28/16 00:38	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/28/16 00:38	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/28/16 00:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/28/16 00:38	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:38	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/28/16 00:38	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/28/16 00:38	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/28/16 00:38	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014833 DP-10 **Lab ID: 92298969006** Collected: 05/23/16 16:35 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/28/16 00:38	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/28/16 00:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/28/16 00:38	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		05/28/16 00:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		05/28/16 00:38	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014834 DP-11 **Lab ID: 92298969007** Collected: 05/24/16 10:55 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/28/16 00:55	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/28/16 00:55	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/28/16 00:55	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/28/16 00:55	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/28/16 00:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/28/16 00:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/28/16 00:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/28/16 00:55	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/28/16 00:55	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/28/16 00:55	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/28/16 00:55	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/28/16 00:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/28/16 00:55	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/28/16 00:55	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/28/16 00:55	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/28/16 00:55	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/28/16 00:55	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014834 DP-11 **Lab ID: 92298969007** Collected: 05/24/16 10:55 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/28/16 00:55	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/28/16 00:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/28/16 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/28/16 00:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/28/16 00:55	2037-26-5	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014835 DP-12 **Lab ID: 92298969008** Collected: 05/24/16 11:40 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		05/27/16 17:16	67-64-1	
Acrylonitrile	**<10.0**	ug/L	10.0	1		05/27/16 17:16	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		05/27/16 17:16	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/27/16 17:16	78-93-3	
Carbon disulfide	**<2.0**	ug/L	2.0	1		05/27/16 17:16	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/27/16 17:16	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/27/16 17:16	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	74-87-3	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		05/27/16 17:16	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/27/16 17:16	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	95-50-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	110-57-6	L3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	78-87-5	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	10061-02-6	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	100-41-4	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/27/16 17:16	591-78-6	
Iodomethane	**<5.0**	ug/L	5.0	1		05/27/16 17:16	74-88-4	
Methylene Chloride	**<2.0**	ug/L	2.0	1		05/27/16 17:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/27/16 17:16	108-10-1	
Styrene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	108-88-3	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/27/16 17:16	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		05/27/16 17:16	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/27/16 17:16	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		05/27/16 17:16	1330-20-7	

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ANALYTICAL RESULTS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Sample: 2016014835 DP-12 **Lab ID: 92298969008** Collected: 05/24/16 11:40 Received: 05/25/16 12:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/27/16 17:16	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/27/16 17:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		05/27/16 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/27/16 17:16	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		05/27/16 17:16	2037-26-5	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

QC Batch: MSV/37021 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92298969001, 92298969002, 92298969003, 92298969004, 92298969005, 92298969006, 92298969007

METHOD BLANK: 1743439 Matrix: Water
Associated Lab Samples: 92298969001, 92298969002, 92298969003, 92298969004, 92298969005, 92298969006, 92298969007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:59	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	05/27/16 16:59	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	05/27/16 16:59	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/27/16 16:59	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/27/16 16:59	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/27/16 16:59	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/27/16 16:59	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/27/16 16:59	
2-Hexanone	ug/L	<5.0	5.0	05/27/16 16:59	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/27/16 16:59	
Acetone	ug/L	<25.0	25.0	05/27/16 16:59	
Acrylonitrile	ug/L	<10.0	10.0	05/27/16 16:59	
Benzene	ug/L	<1.0	1.0	05/27/16 16:59	
Bromochloromethane	ug/L	<1.0	1.0	05/27/16 16:59	
Bromodichloromethane	ug/L	<1.0	1.0	05/27/16 16:59	
Bromoform	ug/L	<1.0	1.0	05/27/16 16:59	
Bromomethane	ug/L	<2.0	2.0	05/27/16 16:59	
Carbon disulfide	ug/L	<2.0	2.0	05/27/16 16:59	
Carbon tetrachloride	ug/L	<1.0	1.0	05/27/16 16:59	
Chlorobenzene	ug/L	<1.0	1.0	05/27/16 16:59	
Chloroethane	ug/L	<1.0	1.0	05/27/16 16:59	
Chloroform	ug/L	<1.0	1.0	05/27/16 16:59	
Chloromethane	ug/L	<1.0	1.0	05/27/16 16:59	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:59	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/27/16 16:59	
Dibromochloromethane	ug/L	<1.0	1.0	05/27/16 16:59	
Dibromomethane	ug/L	<1.0	1.0	05/27/16 16:59	
Ethylbenzene	ug/L	<1.0	1.0	05/27/16 16:59	
Iodomethane	ug/L	<5.0	5.0	05/27/16 16:59	
m&p-Xylene	ug/L	<2.0	2.0	05/27/16 16:59	
Methylene Chloride	ug/L	<2.0	2.0	05/27/16 16:59	
o-Xylene	ug/L	<1.0	1.0	05/27/16 16:59	
Styrene	ug/L	<1.0	1.0	05/27/16 16:59	
Tetrachloroethene	ug/L	<1.0	1.0	05/27/16 16:59	
Toluene	ug/L	<1.0	1.0	05/27/16 16:59	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

METHOD BLANK: 1743439 Matrix: Water
Associated Lab Samples: 92298969001, 92298969002, 92298969003, 92298969004, 92298969005, 92298969006, 92298969007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:59	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/27/16 16:59	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	05/27/16 16:59	
Trichloroethene	ug/L	<1.0	1.0	05/27/16 16:59	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/27/16 16:59	
Vinyl acetate	ug/L	<2.0	2.0	05/27/16 16:59	
Vinyl chloride	ug/L	<1.0	1.0	05/27/16 16:59	
Xylene (Total)	ug/L	<2.0	2.0	05/27/16 16:59	
1,2-Dichloroethane-d4 (S)	%	101	70-130	05/27/16 16:59	
4-Bromofluorobenzene (S)	%	99	70-130	05/27/16 16:59	
Toluene-d8 (S)	%	99	70-130	05/27/16 16:59	

LABORATORY CONTROL SAMPLE: 1743440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.2	106	70-130	
1,1,1-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	52.7	105	70-130	
1,1-Dichloroethene	ug/L	50	52.3	105	70-132	
1,2,3-Trichloropropane	ug/L	50	51.3	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	70-130	
1,2-Dichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
1,2-Dichloropropane	ug/L	50	50.2	100	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
2-Butanone (MEK)	ug/L	100	110	110	70-145	
2-Hexanone	ug/L	100	111	111	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-140	
Acetone	ug/L	100	108	108	50-175	
Acrylonitrile	ug/L	250	254	102	70-143	
Benzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	54.7	109	70-130	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	44.4	89	70-130	
Bromomethane	ug/L	50	51.6	103	54-130	
Carbon disulfide	ug/L	50	57.4	115	70-131	
Carbon tetrachloride	ug/L	50	54.7	109	70-132	
Chlorobenzene	ug/L	50	53.4	107	70-130	
Chloroethane	ug/L	50	48.8	98	64-134	
Chloroform	ug/L	50	52.4	105	70-130	
Chloromethane	ug/L	50	55.4	111	64-130	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

LABORATORY CONTROL SAMPLE: 1743440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	53.6	107	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dibromomethane	ug/L	50	52.8	106	70-131	
Ethylbenzene	ug/L	50	52.3	105	70-130	
Iodomethane	ug/L	100	97.7	98	49-180	
m&p-Xylene	ug/L	100	103	103	70-130	
Methylene Chloride	ug/L	50	54.6	109	63-130	
o-Xylene	ug/L	50	51.4	103	70-130	
Styrene	ug/L	50	54.2	108	70-130	
Tetrachloroethene	ug/L	50	49.2	98	70-130	
Toluene	ug/L	50	52.4	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	79.1	158	70-141	L0
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	55.7	111	62-133	
Vinyl acetate	ug/L	100	109	109	66-157	
Vinyl chloride	ug/L	50	53.5	107	50-150	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1743442

Parameter	Units	92298896003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	24.5	122	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	26.8	134	70-130	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	23.2	116	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	24.2	121	70-130	
1,1-Dichloroethane	ug/L	ND	20	25.7	128	70-130	
1,1-Dichloroethene	ug/L	ND	20	27.4	137	70-166	
1,2,3-Trichloropropane	ug/L	ND	20	24.0	120	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	22.3	112	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	25.8	129	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	25.0	125	70-130	
1,2-Dichloroethane	ug/L	ND	20	23.6	118	70-130	
1,2-Dichloropropane	ug/L	ND	20	24.2	121	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	24.8	124	70-130	
2-Butanone (MEK)	ug/L	ND	40	52.2	131	70-130	M1
2-Hexanone	ug/L	ND	40	51.8	129	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	52.0	130	70-130	
Acetone	ug/L	ND	40	55.0	138	70-130	M1
Acrylonitrile	ug/L	ND	100	126	126	70-130	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

MATRIX SPIKE SAMPLE: 1743442

Parameter	Units	92298896003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	25.0	125	70-148	
Bromochloromethane	ug/L	ND	20	25.8	129	70-130	
Bromodichloromethane	ug/L	ND	20	24.5	123	70-130	
Bromoform	ug/L	ND	20	21.9	109	70-130	
Bromomethane	ug/L	ND	20	15.6	78	70-130	
Carbon disulfide	ug/L	ND	20	27.1	135	70-130	M1
Carbon tetrachloride	ug/L	ND	20	26.6	133	70-130	M1
Chlorobenzene	ug/L	ND	20	25.6	128	70-146	
Chloroethane	ug/L	ND	20	28.5	143	70-130	M1
Chloroform	ug/L	ND	20	25.0	125	70-130	
Chloromethane	ug/L	ND	20	24.1	118	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	27.1	135	70-130	M1
cis-1,3-Dichloropropene	ug/L	ND	20	22.7	113	70-130	
Dibromochloromethane	ug/L	ND	20	24.7	123	70-130	
Dibromomethane	ug/L	ND	20	24.6	123	70-130	
Ethylbenzene	ug/L	ND	20	25.4	127	70-130	
Iodomethane	ug/L	ND	40	31.7	79	70-130	
m&p-Xylene	ug/L	ND	40	49.1	123	70-130	
Methylene Chloride	ug/L	ND	20	23.0	115	70-130	
o-Xylene	ug/L	ND	20	24.3	122	70-130	
Styrene	ug/L	ND	20	22.7	114	70-130	
Tetrachloroethene	ug/L	ND	20	23.8	119	70-130	
Toluene	ug/L	ND	20	25.1	125	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	27.1	135	70-130	M1
trans-1,3-Dichloropropene	ug/L	ND	20	21.8	109	70-130	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20.7	104	70-130	
Trichloroethene	ug/L	ND	20	25.2	126	69-151	
Trichlorofluoromethane	ug/L	ND	20	28.1	140	70-130	M1
Vinyl acetate	ug/L	ND	40	26.6	67	70-130	M1
Vinyl chloride	ug/L	ND	20	27.8	139	70-130	M1
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1744702

Parameter	Units	92298969007 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

SAMPLE DUPLICATE: 1744702

Parameter	Units	92298969007 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<25.0	<25.0		
Acrylonitrile	ug/L	<10.0	<10.0		
Benzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<2.0	<2.0		
Carbon disulfide	ug/L	<2.0	<2.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Iodomethane	ug/L	<5.0	<5.0		
m&p-Xylene	ug/L	<2.0	<2.0		
Methylene Chloride	ug/L	<2.0	<2.0		
o-Xylene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
trans-1,4-Dichloro-2-butene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl acetate	ug/L	<2.0	<2.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloroethane-d4 (S)	%	102	103	2	
4-Bromofluorobenzene (S)	%	99	99	1	
Toluene-d8 (S)	%	100	100	0	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

QC Batch: MSV/37022
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92298969008

METHOD BLANK: 1743444
Matrix: Water
Associated Lab Samples: 92298969008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:41	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	05/27/16 16:41	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	05/27/16 16:41	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/27/16 16:41	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/27/16 16:41	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/27/16 16:41	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/27/16 16:41	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/27/16 16:41	
2-Hexanone	ug/L	<5.0	5.0	05/27/16 16:41	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/27/16 16:41	
Acetone	ug/L	<25.0	25.0	05/27/16 16:41	
Acrylonitrile	ug/L	<10.0	10.0	05/27/16 16:41	
Benzene	ug/L	<1.0	1.0	05/27/16 16:41	
Bromochloromethane	ug/L	<1.0	1.0	05/27/16 16:41	
Bromodichloromethane	ug/L	<1.0	1.0	05/27/16 16:41	
Bromoform	ug/L	<1.0	1.0	05/27/16 16:41	
Bromomethane	ug/L	<2.0	2.0	05/27/16 16:41	
Carbon disulfide	ug/L	<2.0	2.0	05/27/16 16:41	
Carbon tetrachloride	ug/L	<1.0	1.0	05/27/16 16:41	
Chlorobenzene	ug/L	<1.0	1.0	05/27/16 16:41	
Chloroethane	ug/L	<1.0	1.0	05/27/16 16:41	
Chloroform	ug/L	<1.0	1.0	05/27/16 16:41	
Chloromethane	ug/L	<1.0	1.0	05/27/16 16:41	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:41	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/27/16 16:41	
Dibromochloromethane	ug/L	<1.0	1.0	05/27/16 16:41	
Dibromomethane	ug/L	<1.0	1.0	05/27/16 16:41	
Ethylbenzene	ug/L	<1.0	1.0	05/27/16 16:41	
Iodomethane	ug/L	<5.0	5.0	05/27/16 16:41	
m&p-Xylene	ug/L	<2.0	2.0	05/27/16 16:41	
Methylene Chloride	ug/L	<2.0	2.0	05/27/16 16:41	
o-Xylene	ug/L	<1.0	1.0	05/27/16 16:41	
Styrene	ug/L	<1.0	1.0	05/27/16 16:41	
Tetrachloroethene	ug/L	<1.0	1.0	05/27/16 16:41	
Toluene	ug/L	<1.0	1.0	05/27/16 16:41	

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

METHOD BLANK: 1743444 Matrix: Water
Associated Lab Samples: 92298969008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/27/16 16:41	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/27/16 16:41	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	05/27/16 16:41	
Trichloroethene	ug/L	<1.0	1.0	05/27/16 16:41	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/27/16 16:41	
Vinyl acetate	ug/L	<2.0	2.0	05/27/16 16:41	
Vinyl chloride	ug/L	<1.0	1.0	05/27/16 16:41	
Xylene (Total)	ug/L	<2.0	2.0	05/27/16 16:41	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/27/16 16:41	
4-Bromofluorobenzene (S)	%	99	70-130	05/27/16 16:41	
Toluene-d8 (S)	%	101	70-130	05/27/16 16:41	

LABORATORY CONTROL SAMPLE: 1743445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.9	104	70-130	
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethene	ug/L	50	50.3	101	70-132	
1,2,3-Trichloropropane	ug/L	50	50.9	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	70-130	
1,2-Dichlorobenzene	ug/L	50	54.4	109	70-130	
1,2-Dichloroethane	ug/L	50	48.5	97	70-130	
1,2-Dichloropropane	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	50.4	101	70-130	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Hexanone	ug/L	100	111	111	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	70-140	
Acetone	ug/L	100	104	104	50-175	
Acrylonitrile	ug/L	250	249	100	70-143	
Benzene	ug/L	50	50.1	100	70-130	
Bromochloromethane	ug/L	50	52.8	106	70-130	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	44.5	89	70-130	
Bromomethane	ug/L	50	50.1	100	54-130	
Carbon disulfide	ug/L	50	53.7	107	70-131	
Carbon tetrachloride	ug/L	50	51.9	104	70-132	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	45.4	91	64-134	
Chloroform	ug/L	50	51.1	102	70-130	
Chloromethane	ug/L	50	50.4	101	64-130	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

LABORATORY CONTROL SAMPLE: 1743445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	52.0	104	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dibromomethane	ug/L	50	51.3	103	70-131	
Ethylbenzene	ug/L	50	51.0	102	70-130	
Iodomethane	ug/L	100	89.2	89	49-180	
m&p-Xylene	ug/L	100	101	101	70-130	
Methylene Chloride	ug/L	50	54.1	108	63-130	
o-Xylene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	53.8	108	70-130	
Tetrachloroethene	ug/L	50	46.9	94	70-130	
Toluene	ug/L	50	50.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.2	100	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	78.0	156	70-141	L0
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	51.9	104	62-133	
Vinyl acetate	ug/L	100	108	108	66-157	
Vinyl chloride	ug/L	50	49.9	100	50-150	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1744703

Parameter	Units	92299088004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L			26.3			
1,1,1-Trichloroethane	ug/L			29.1			
1,1,2,2-Tetrachloroethane	ug/L			23.6			
1,1,2-Trichloroethane	ug/L			24.8			
1,1-Dichloroethane	ug/L			27.7			
1,1-Dichloroethene	ug/L			29.0			
1,2,3-Trichloropropane	ug/L			24.2			
1,2-Dibromo-3-chloropropane	ug/L			24.9			
1,2-Dibromoethane (EDB)	ug/L			26.6			
1,2-Dichlorobenzene	ug/L			27.1			
1,2-Dichloroethane	ug/L			25.2			
1,2-Dichloropropane	ug/L			25.5			
1,4-Dichlorobenzene	ug/L			26.1			
2-Butanone (MEK)	ug/L			47.9			
2-Hexanone	ug/L			47.7			
4-Methyl-2-pentanone (MIBK)	ug/L			50.0			
Acetone	ug/L			45.6			
Acrylonitrile	ug/L			118			

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

MATRIX SPIKE SAMPLE: 1744703

Parameter	Units	92299088004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	27.2	136	70-148	
Bromochloromethane	ug/L			26.9			
Bromodichloromethane	ug/L			26.6			
Bromoform	ug/L			23.9			
Bromomethane	ug/L			30.4			
Carbon disulfide	ug/L			29.1			
Carbon tetrachloride	ug/L			30.1			
Chlorobenzene	ug/L			27.1			
Chloroethane	ug/L			30.8			
Chloroform	ug/L			29.3			
Chloromethane	ug/L			30.4			
cis-1,2-Dichloroethene	ug/L			27.9			
cis-1,3-Dichloropropene	ug/L			26.7			
Dibromochloromethane	ug/L			26.0			
Dibromomethane	ug/L			25.6			
Ethylbenzene	ug/L	ND	20	27.2	135	70-130	M1
Iodomethane	ug/L			51.4			
m&p-Xylene	ug/L	ND	40	53.2	133	70-130	M1
Methylene Chloride	ug/L			24.9			
o-Xylene	ug/L	ND	20	25.8	129	70-130	
Styrene	ug/L			26.8			
Tetrachloroethene	ug/L			25.8			
Toluene	ug/L	ND	20	27.2	136	70-155	
trans-1,2-Dichloroethene	ug/L			28.7			
trans-1,3-Dichloropropene	ug/L			25.6			
trans-1,4-Dichloro-2-butene	ug/L			23.2			
Trichloroethene	ug/L			26.9			
Trichlorofluoromethane	ug/L			32.1			
Vinyl acetate	ug/L			53.9			
Vinyl chloride	ug/L			28.3			
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1744704

Parameter	Units	92299088005 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		<1.0		
1,1,1-Trichloroethane	ug/L		<1.0		
1,1,2,2-Tetrachloroethane	ug/L		<1.0		
1,1,2-Trichloroethane	ug/L		<1.0		
1,1-Dichloroethane	ug/L		<1.0		
1,1-Dichloroethene	ug/L		<1.0		
1,2,3-Trichloropropane	ug/L		<1.0		
1,2-Dibromo-3-chloropropane	ug/L		<2.0		

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QUALITY CONTROL DATA

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

SAMPLE DUPLICATE: 1744704

Parameter	Units	92299088005 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L		<1.0		
1,2-Dichlorobenzene	ug/L		<1.0		
1,2-Dichloroethane	ug/L		<1.0		
1,2-Dichloropropane	ug/L		<1.0		
1,4-Dichlorobenzene	ug/L		<1.0		
2-Butanone (MEK)	ug/L		<5.0		
2-Hexanone	ug/L		<5.0		
4-Methyl-2-pentanone (MIBK)	ug/L		<5.0		
Acetone	ug/L		<25.0		
Acrylonitrile	ug/L		<10.0		
Benzene	ug/L	ND	<1.0		
Bromochloromethane	ug/L		<1.0		
Bromodichloromethane	ug/L		<1.0		
Bromoform	ug/L		<1.0		
Bromomethane	ug/L		<2.0		
Carbon disulfide	ug/L		<2.0		
Carbon tetrachloride	ug/L		<1.0		
Chlorobenzene	ug/L		<1.0		
Chloroethane	ug/L		<1.0		
Chloroform	ug/L		4.1		
Chloromethane	ug/L		<1.0		
cis-1,2-Dichloroethene	ug/L		<1.0		
cis-1,3-Dichloropropene	ug/L		<1.0		
Dibromochloromethane	ug/L		<1.0		
Dibromomethane	ug/L		<1.0		
Ethylbenzene	ug/L	ND	<1.0		
Iodomethane	ug/L		<5.0		
m&p-Xylene	ug/L	ND	<2.0		
Methylene Chloride	ug/L		<2.0		
o-Xylene	ug/L	ND	<1.0		
Styrene	ug/L		<1.0		
Tetrachloroethene	ug/L		<1.0		
Toluene	ug/L	ND	<1.0		
trans-1,2-Dichloroethene	ug/L		<1.0		
trans-1,3-Dichloropropene	ug/L		<1.0		
trans-1,4-Dichloro-2-butene	ug/L		<1.0		
Trichloroethene	ug/L		<1.0		
Trichlorofluoromethane	ug/L		<1.0		
Vinyl acetate	ug/L		<2.0		
Vinyl chloride	ug/L		<1.0		
Xylene (Total)	ug/L	ND	<2.0		
1,2-Dichloroethane-d4 (S)	%	100	105	4	
4-Bromofluorobenzene (S)	%	98	97	1	
Toluene-d8 (S)	%	101	100	1	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

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

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16050651 MCGUIRE LF
Pace Project No.: 92298969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92298969001	**2016014828 DP-5**	EPA 8260	MSV/37021		
92298969002	**2016014829 DP-6**	EPA 8260	MSV/37021		
92298969003	**2016014830 DP-7**	EPA 8260	MSV/37021		
92298969004	**2016014831 DP-8**	EPA 8260	MSV/37021		
92298969005	**2016014832 DP-9**	EPA 8260	MSV/37021		
92298969006	**2016014833 DP-10**	EPA 8260	MSV/37021		
92298969007	**2016014834 DP-11**	EPA 8260	MSV/37021		
92298969008	**2016014835 DP-12**	EPA 8260	MSV/37022		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised:April 25, 2016 Page 1 of 2
	Document No.: **F-CHR-CS-003-rev.19**	Issuing Authority: 46 of 48 Pace Huntersville Quality Office

WO# : 92298969

92298969

Sample Condition Upon Receipt

Client Name: Duke

Proje

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: TH 5/25/16

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):** 5.4 **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/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	10. HNC3 pH<2 HCl pH<2 H2SO4 pH<2 NaOH pH>12 NaOH/ZnOAc pH>9
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☑ Yes	☐ No	☐ N/A	
Samples checked for dechlorination?	☐ Yes	☐ No	☑ N/A	11.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	12.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	13.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: KWH **Date:** 5/25/16

Project Manager SRF Review: KWH **Date:** 5/26/16

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)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J160 50651

PACE 1115040

Page: 1 of 1

2043510

Section A Required Client Information:

Company: S&ME
Address: 301 Zima Park Rd.
Spt bg, SC 29301
Email To: Jwhitehead@smeinc.com
Phone: 864.574.2360 Fax: .com
Requested Due Date/TAT:

Section B Required Project Information: John

Report To: Duke Energy / Williamson
Copy To: S&ME / John Whitehead
Purchase Order No.: 111 5040
Project Name: McGuire NS LF
Project Number: J160 50592
McGuire LF

Section C Invoice Information:

Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-5	20160 14828	WT	G	5/20/16	15:50				3				X					X		001
2	DP-6	4829	WT	G	5/23	12:30				3				X					X		002
3	DP-7	4830	WT	G	5/23	14:30				3				X					X		003
4	DP-8	4831	WT	G	5/23	15:10				3				X					X		004
5	DP-9	4832	WT	G	5/23	15:55				3				X					X		005
6	DP-10	4833	WT	G	5/23	16:35				3				X					X		006
7	DP-11	4834	WT	G	5/24	10:55				3				X					X		007
8	DP-12	4835	WT	G	5/24	11:40				3				X					X		008
9																					
10																					
11																					
12																					

92298969

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Richard Bonds / S&ME	05/24/16	1215		5/24/16	1215				
	Alyson Smalley	5-25-16	1230		5-25-16	1230				
		5-25-16	1300		5-25-16	1300	54	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds
DATE Signed (MM/DD/YY): 05/24/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

J160 50651

PACE 1115040

Page: 1 of 1

2043510

Section A Required Client Information:
Company: S&ME
Address: 301 Zima Park Rd. Spt bg, SC 29301
Email To: Jwhitehead@smeinc.com
Phone: 864.574.2360 Fax:
Requested Due Date/TAT:

Section B Required Project Information: John
Report To: Duke Energy / Williamson
Copy To: S&ME / John Whitehead
Purchase Order No.: 111 5040
Project Name: McGuire NS LF
Project Number: J160 50592 McGuire LF

Section C Invoice Information:
Attention: John Williamson
Company Name: Duke Energy
Address: McGuire NS
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-5 2016014828	WT	G	5/20/16	15:50				3				X					X		
2	DP-6 4829	WT	G	5/23	12:30				3				X					X		
3	DP-7 4830	WT	G	5/23	14:30				3				X					X		
4	DP-8 4831	WT	G	5/23	15:10				3				X					X		
5	DP-9 4832	WT	G	5/23	15:55				3				X					X		
6	DP-10 4833	WT	G	5/23	16:35				3				X					X		
7	DP-11 4834	WT	G	5/24	10:55				3				X					X		
8	DP-12 4835	WT	G	5/24	11:40				3				X					X		
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Richard Bonds / S&ME	05/24/16	12:[illegible]	[illegible]	[illegible]	[illegible]	
	Alyn Smalley	5-25-16	1230	[illegible]	5-25-16	12:[illegible]	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Richard Bonds
SIGNATURE of SAMPLER: Richard Bonds
DATE Signed (MM/DD/YY): 05/24/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.