GROUNDWATER MONITORING REPORT
PPG INDUSTRIES, INC.
JULY 2013 MONITORING EVENT
940 WASHBURN SWITCH ROAD
SHELBY, CLEVELAND CO., NC
S&ME PROJECT # 1354-11-137

Prepared for:

PPG Industries

PPG Industries, Inc.
940 Washburn Switch Road
Shelby, North Carolina 28150

Prepared by:

S&ME

S&ME, Inc.
9751 Southern Pine Boulevard
Charlotte, North Carolina 28273

August 2, 2013

S&ME

August 2, 2013

PPG Industries, Inc.
940 Washburn Switch Road
Shelby, North Carolina 28150

Attention: Mr. Richard Young

Reference: **Groundwater Monitoring Report**
July 2013 Semi-Annual Monitoring Event
PPG Industries, Inc.
940 Washburn Switch Road
Shelby, Cleveland County, North Carolina
S&ME Project # 1354-11-137

Dear Mr. Young:

S&ME, Inc. (S&ME) submits this Groundwater Monitoring Report for the referenced facility as part of a continuing groundwater monitoring program in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) requirements. The sampling and reporting services were performed in general accordance with S&ME's Proposal No. 1354-24380-11 dated July 11, 2011. The July 2013 sampling results indicated concentrations of iron (MW-5) and manganese (MW-3, 4, 5, and 7) at levels exceeding the 15A NCAC 2L .0202 groundwater quality standards (2L Standards). Manganese and iron concentrations were generally similar to prior sampling events. No other parameters were detected above the 2L Standards. Based on these findings, we recommend continued semi-annual groundwater monitoring.

We appreciate the opportunity to provide our professional environmental services to PPG Industries, Inc. on this project. Should you have any questions concerning this report, please contact us at your earliest convenience.

Sincerely,

S&ME, INC.

Becka L. Davidson
Environmental Professional

Al Quarles, L.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

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FORTY YEARS OF ENGINEERING INTEGRITY

GROUNDWATER MONITORING REPORT
JULY 2013 MONITORING EVENT
PPG INDUSTRIES, INC.
940 WASHBURN SWITCH ROAD
SHELBY, CLEVELAND CO., NC
S&ME PROJECT # 1354-11-137

1 INTRODUCTION

S&ME includes herein, the results of the July 2013 semi-annual groundwater monitoring event for the referenced PPG Industries, Inc. fiberglass manufacturing plant located in Shelby, North Carolina (**Figures 1 and 2**). The NCDENR, Division of Waste Management (DWM) requires that a semi-annual monitoring program be implemented for this type of facility to monitor for potential environmental impacts. **Figure 3** is provided as a site plan of the subject facility and illustrates the locations of the seven groundwater monitor wells.

The report includes: 1) a description of the sample collection methodology; 2) groundwater level data and a groundwater surface map; and 3) results and conclusions of the groundwater quality analyses. Historical water quality data are also presented in the attached tables.

2 SAMPLING METHODOLOGY

On July 9 and 10, 2013, S&ME measured the depth to groundwater in the monitor wells from the top of monitor well casings (**Table 1**). Prior to water level measurements, monitor well seals were removed to allow groundwater levels to equilibrate with atmospheric pressure. Water level measurements were used to prepare a groundwater surface map from which the direction of groundwater flow could be inferred, as illustrated in **Figure 3**.

Low-flow sampling methods generally consistent with NCDENR guidance and EPA standard operating procedures were performed using a peristaltic pump with new tubing for each well. The base of the tubing was placed approximately 1 foot from the base of each well and the pump was operated at a low flow rate in an attempt to limit drawdown of the water column. During purging of each well, S&ME recorded pH, specific conductance, temperature, dissolved oxygen, oxygen-reduction potential, and turbidity. Field measurements are included on the Field Sampling Records in **Appendix I**.

After field measurements were generally stabilized, the groundwater samples were collected directly from the tubing into laboratory-provided sample containers in a manner to limit aeration of the sample. No field or laboratory filtration of the samples was performed. The samples were analyzed in accordance with EPA Methods and Standard

Methods for the parameters listed in **Table 2**. Standard control measures, including sample collection and handling, were implemented before, during and after sample collection. Sample containers were delivered to a NCDENR-certified laboratory (Pace Laboratories) in accordance with chain-of-custody protocol.

3 RESULTS

3.1 Water Levels and Groundwater Flow

On July 9 and 10, 2013, S&ME measured the depth to water from the monitor well's top of casing (TOC). Based on the TOC elevations and depths to water, groundwater elevations were calculated. The groundwater surface elevations are summarized in **Table 1** and are presented in **Figure 3**. The inferred direction of groundwater flow is generally to the west.

Compared to January 2013 water levels, the July 2013 water levels increased from 0.66 feet (MW-3) to 8.45 feet (MW-2). In addition, monitor well MW-1 had sufficient water to sample, whereas the well was dry in July 2012 and July 2013.

3.2 Groundwater Quality

The results of the July 2013 groundwater sampling event are summarized in **Table 2**. A copy of the laboratory report is included in **Appendix II**. The historical results since January 2006 are summarized in **Table 3**. The July 2013 sampling results indicated concentrations of iron (MW-5) and manganese (MW-3, 4, 5, and 7) at levels exceeding the 15A NCAC 2L .0202 groundwater quality standards (2L Standards). Manganese concentrations were similar to prior sampling events. Manganese was previously detected at levels exceeding the 2L Standard in monitor well MW-6 in January 2013, and manganese concentrations in MW-6 were below the 2L Standard in July 2013. Iron concentrations, however, varied from prior sampling events. Iron was previously detected at levels exceeding the 2L Standard in monitor well MW-3 in January 2013, and iron concentrations in MW-3 were below the 2L Standard in July 2013. Iron concentrations in MW-5 exceeded the 2L Standard as previously reported; however, iron was detected at a concentration of 5.940 milligrams per liter (mg/L) in July 2013 compared to the average of 5.96 mg/L for the results since January 1993. No other parameters were detected above the 2L Standards.

Comparison of the historical data indicates relatively consistent detections of manganese in all wells (including upgradient well MW-1), fluctuating between non-detectable concentrations to concentrations exceeding the 2L Standards. Iron concentrations; however, have fluctuated over prior sampling events. S&ME was able to obtain a sample from the upgradient well MW-1 during the July 2013 sampling event. This well was previously dry during the January 2013 and July 2012 sampling events.

Barium, cadmium, chromium and lead have previously been detected at concentrations that exceeded the 2L Standards in several wells (i.e., MW-4, MW-5, MW-6, and MW-7); however, the detections are more sporadic than those for iron and manganese.

Concentrations of chloride, nitrate, sulfate, and total dissolved solids (TDS) were either not detected above the laboratory reporting limits or not detected above the 2L Standards. There are no standards for biological oxygen demand (BOD), chemical oxygen demand (COD), or total organic carbon (TOC).

The historical results do not indicate increasing trends in constituent concentrations.

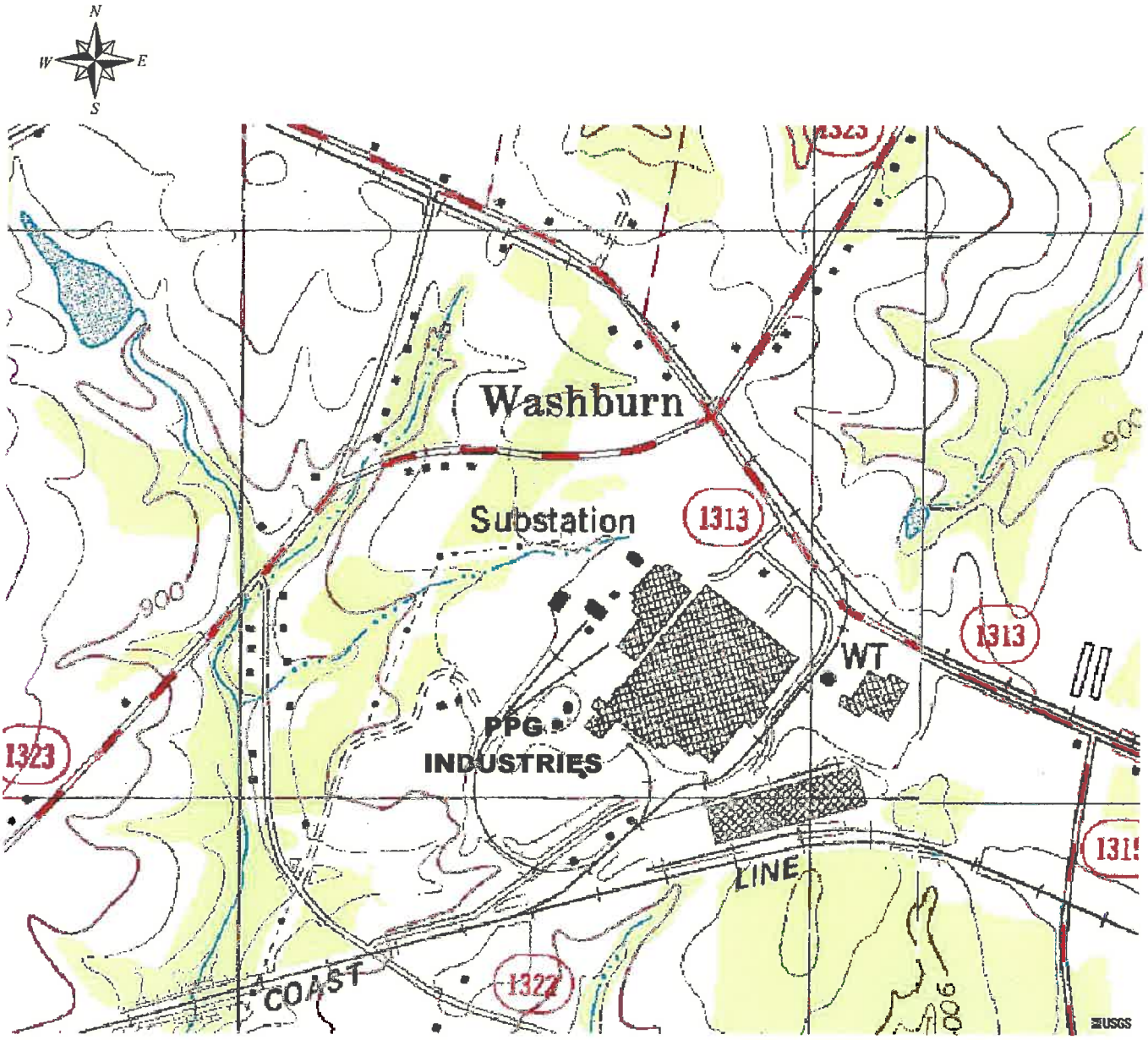
3.3 Quality Control Sample

S&ME also collected an equipment blank by pumping deionized (DI) water from a 1 liter glass container supplied by the laboratory through new inlet and outlet tubing attached to new peristaltic pump tubing directly into the laboratory containers (after passing 1 liter of water through the tubing). The blank was analyzed for the same parameters as the groundwater samples. None of the analyzed compounds were detected in the equipment blank sample except for nitrate (0.061 mg/L). The source of the nitrate is likely from the laboratory supplied DI water but may be from the tubing. Nitrate was reported in all monitor well samples, at levels above the nitrate level in the equipment blank, with the exception of monitor well MW-6 which was detected at 0.029mg/L.

3.4 Recommendations

Based on the results of the July 2013 monitoring event, S&ME recommends continued semi-annual groundwater monitoring.

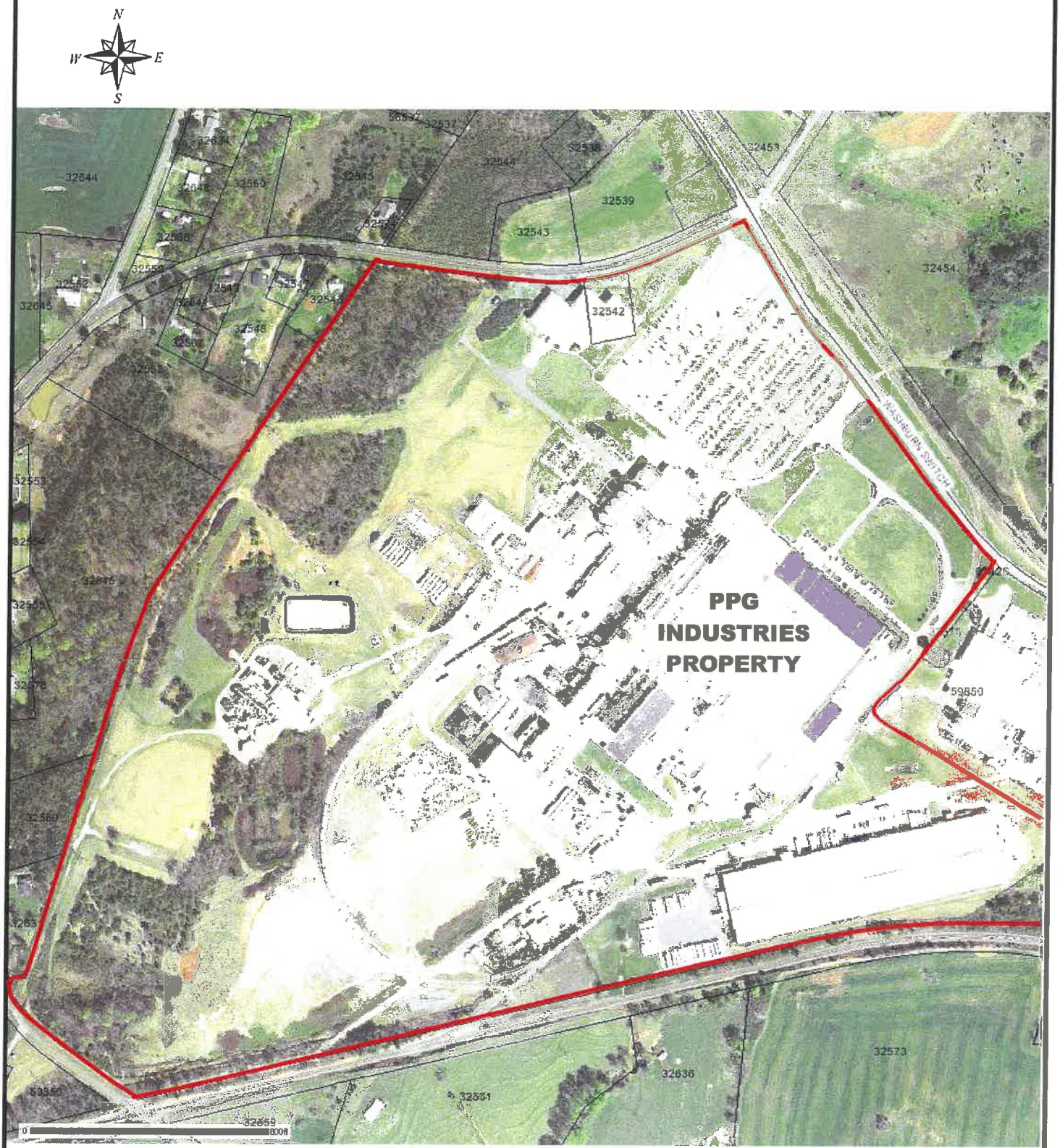
FIGURES



Source: USGS Topographic Map obtained from http://terraserver-usa.com

Approximate Location of Subject Property

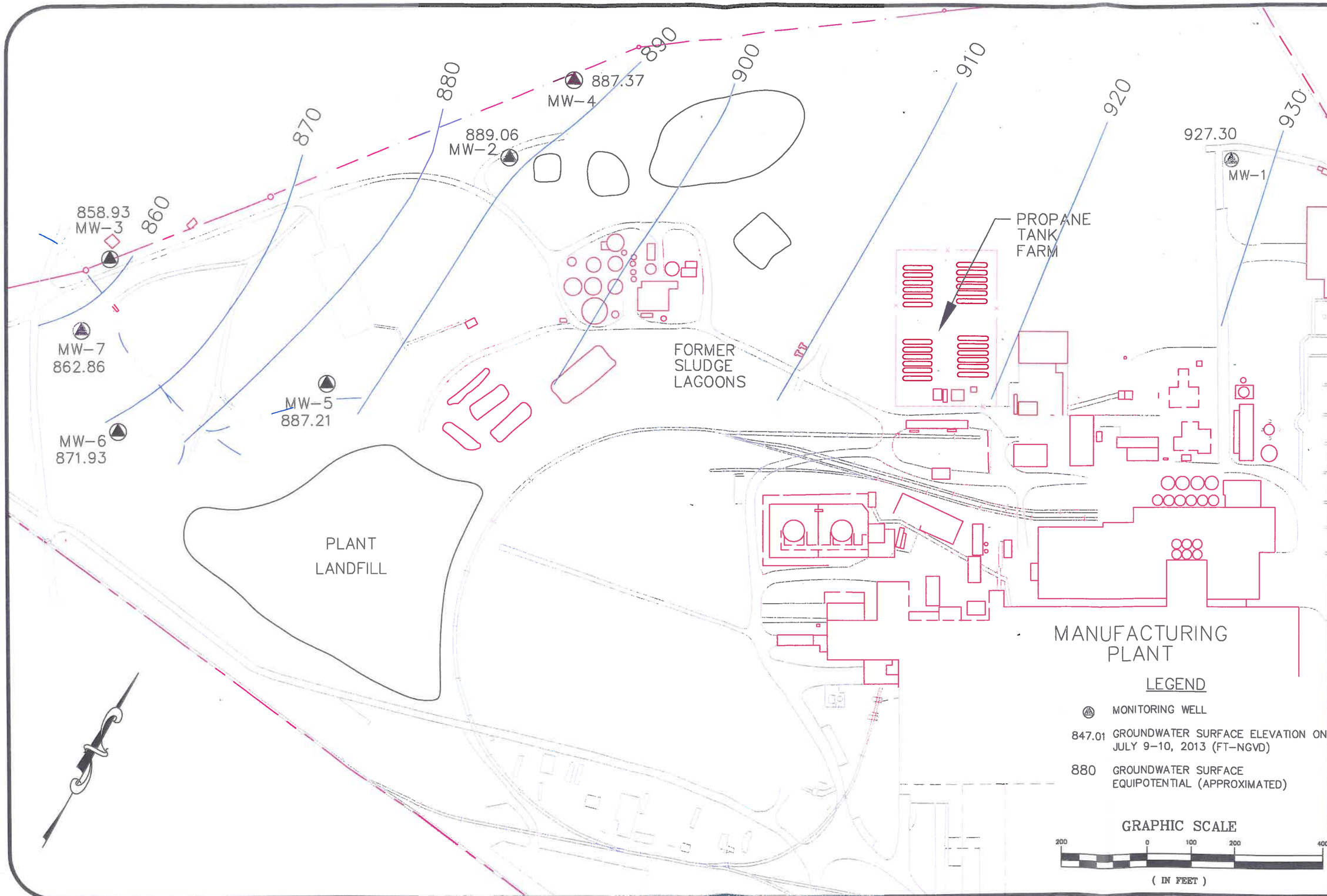
Scale: Not To Scale	S&ME	**SITE LOCATION MAP** PPG Industries 940 Washburn Switch Road Shelby, North Carolina	**Figure** **1**
Drawn by: WAQ			
Checked by:			
Date: 02-17-12		S&ME Job No.: 1354-11-137	



Approximate Location of Subject Property

Source: 2005 Aerial obtained from Cleveland County GIS Website

Scale: As Shown	S&ME	**SITE AERIAL MAP** PPG Industries 940 Washburn Switch Road Shelby, North Carolina	**Figure** **2**
Drawn by: WAQ			
Checked by:			
Date: 02-17-12		S&ME Job No.: 1354-11-137	



DATE: 07-30-13
DRAWN BY: CSM
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 1354-11-137

S&ME
WWW.SMEINC.COM

GROUNDWATER CONTOUR MAP
JULY 2013

PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA

FIGURE NO.
3

G:\1354\2011\137 PPG Shelby\FIG 3 JULY 2013.dwg

TABLES

Table 1

Water Levels and Well Purging Data (July 9-10, 2013)
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-11-137

		Monitor Well						
Parameter	**Unit**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
Top-of-Casing Elevation	feet	953.03	904.41	867.01	901.39	892.41	886.65	870.34
Depth to Water from Top-of-Casing	feet	25.73	15.35	8.08	14.02	5.20	14.72	7.48
Water Level Elevation	feet	927.30	889.06	858.93	887.37	887.21	871.93	862.86
Elevation Change**	feet	*	8.45	0.66	6.76	1.89	1.53	1.00
Well Depth from Top-of-Casing	feet	29	30	20	27	21	21	21
Sample Appearance		Clear	Clear	Clear	Clear	Clear	Clear	Clear
Flow	milliliters per minute	50	200	100	100	100	100	150
pH	standard	4.66	4.77	5.05	5.68	4.58	4.90	4.72
Conductivity	microSiemens per centimeter	41	44	84	92	94	23	29
Turbidity	nephelometric turbidity units	10.20	2.08	0.81	1.29	8.30	2.58	1.36
Dissolved Oxygen	milligrams per liter	5.47	5.82	0.42	0.27	0.55	5.75	2.77
Temperature	Celcius	20.03	19.18	19.98	18.32	19.04	18.02	18.89
ORP	millivolts	172.5	160.1	185.5	141.2	193.2	168.7	189.6

Notes

* = Well was dry at 29 feet below top of casing in January 2013
** Difference in feet from the previous monitoring event.

TABLE 2
WATER QUALITY DATA (July 9-10, 2013)
PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	UNITS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	EQ-1	15A NCAC 2L STND. Current
Barium	mg/L	**0.0307**	**0.0255**	**0.124**	**0.112**	**0.155**	**0.0146**	**0.0545**	<0.0050	0.7
Cadmium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.002
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.01
Copper	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1
Iron	mg/L	**0.128**	**0.0525**	**0.0797**	<0.0500	**5.940** *	**0.237**	<0.0500	<0.0500	0.3
Lead	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.015
Manganese	mg/L	**0.0094**	**0.0106**	**1.800** *	**0.0569** *	**0.217** *	**0.0102**	**0.0707** *	<0.0050	0.05
BOD	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA
Chloride	mg/L	**5.0**	**7.5**	**3.0**	**15.5**	**22.5**	**4.5**	**5.2**	<1.0	250
COD	mg/L	<25	<25	<25	<25	<25	<25	<25	<25	10
Nitrate	mg/L	**2.2**	**0.61**	**1.0**	**0.95**	**0.27**	**0.029**	**0.82**	**0.061**	250
Sulfate	mg/L	<2.0	<2.0	**15.4**	<2.0	<2.0	<2.0	<2.0	<2.0	500
TDS	mg/L	<25.0	**27.0**	**137**	**74.0**	**57.0**	<25.0	<25.0	<25.0	NA
TOC	mg/L	**1.2**	**2.1**	**5.6**	**5.6**	**3.3**	**1.4**	**11.5**	<1.0	NA
ORP										

NOTES: NA = No numerical standard
mg/L = Milligrams per liter
* = Values exceeding current 15A NCAC 2L Standards (Revised 1/1/2010)
2L Standard = 15A NCAC 2L .0202 Groundwater Quality Standards

TABLE 3
WATER QUALITY DATA (MW-1)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/20/10	07/16/10	01/28/11	07/13/11	01/25/12	07/25/12	01/24/13	7/9-10/13
Barium	0.7	0.034	0.028	0.03	0.034	dry	dry	dry	0.0291	0.0295	0.0309	0.0278	0.0296	0.0312	dry	dry	0.0307
Cadmium	0.002	---	---	---	---	dry	dry	dry	---	---	<0.001	<0.001	<0.0010	<0.0010	dry	dry	<0.0010
Chromium	0.01	---	---	---	---	dry	dry	dry	---	---	<0.005	<0.005	<0.0050	<0.0050	dry	dry	<0.0050
Copper	1	---	---	---	---	dry	dry	dry	---	---	<0.005	<0.005	<0.0050	<0.0050	dry	dry	<0.0050
Iron	0.30	**0.39**	---	**0.32**	**0.59**	dry	dry	dry	**0.388**	---	<0.05	**0.69**	<0.0500	0.604	dry	dry	0.128
Lead	0.015	---	---	---	---	dry	dry	dry	---	---	<0.005	<0.005	<0.0050	<0.0050	dry	dry	<0.0050
Manganese	0.05	0.014	0.006	0.0091	0.016	dry	dry	dry	0.0128	0.007	0.0084	0.0182	0.0065	0.0165	dry	dry	0.0094
BOD	NA	---	---	---	---	dry	dry	dry	---	---	<2	NS	<2.0	<2.0	dry	dry	<2.0
Chloride	250		---	6.1	---	dry	dry	dry	5.8	---	<5	NS	<5.0	5.3	dry	dry	5.0
COD	NA	---	---	---	---	dry	dry	dry	---	---	<25	NS	<25.0	<25.0	dry	dry	<25.0
Nitrate	10	2.3	2.1	2	2.6	dry	dry	dry	2	2.3	2.1	NS	2.1	2.2	dry	dry	2.2
Sulfate	250		---	---	---	dry	dry	dry	---	---	<5	NS	<5.0	<5.0	dry	dry	<2.0
TDS	500	---	30	---	50	dry	dry	dry	44	52	<25	NS	<25.0	<25.0	dry	dry	<25.0
TOC	NA	3.5	5	---	1.8	dry	dry	dry	2.7	---	<1	NS	1.2	1.1	dry	dry	1.2

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-2)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/19/10	07/16/10	01/27/11	07/12/11	01/25/12	07/25/12	01/24/13	07/9-10/13
Barium	0.7	0.027	0.025	0.015	0.026	0.0238	0.0305	0.0229	0.0269	0.0276	0.0241	0.0257	0.0263	0.0291	0.0258	0.0254	0.0255
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper	1	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	0.30	---	0.11	---	0.49	---	0.0591	---	**0.341**	---	<0.05	<0.05	0.13	<0.05	**0.601**	<0.0050	0.0525
Lead	0.015	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	0.015	0.019	0.016	0.028	0.0236	**0.0539**	0.0204	0.0249	0.0099	0.0079	0.0093	0.0142	0.0106	0.0165	0.0125	0.0106
BOD	NA	4	---	---	---	---	---	10.8	---	---	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250		5.5	6.4	6.9	---	17.6	---	6.7	7.6	8	6.8	7.4	8.2	5	3.3	7.5
COD	NA	---	---	---	---	---	---	---	---	---	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0
Nitrate	10	0.5	0.42	0.4	0.48	0.3	0.32	0.2	0.42	0.53	0.53	0.45	0.47	0.37	0.29	0.065	0.61
Sulfate	250		---	---	---	---	---	---	---	---	<5	<5	<5.0	<5.0	<2.0	<2.0	<2.0
TDS	500	---	42	---	---	32	28	---	52	30	<25	<25	<25.0	<25.0	<25.0	36	27.0
TOC	NA	6.2	9	2	3.7	---	8.2	10.7	2.9	2.5	<1	1.2	2.4	2.6	2	3.3	2.1

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-3)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/20/10	07/16/10	01/27/11	07/12/11	01/25/12	07/25/12	01/23/13	07/9-10/13
Barium	0.7	**0.082**	0.11	0.074	0.096	0.0854	0.0911	0.0787	0.0885	0.105	**0.127**	0.115	**0.124**	0.109	**0.108**	0.105	0.124
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper	1	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	0.30	**7.9**	**1.5**	**6.6**	**0.56**	**2.5**	**4.07**	**1.52**	**0.328**	**0.845**	0.0969	0.252	**0.133**	0.132	**0.163**	**1.08**	0.0797
Lead	0.015	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	**4**	**2.1**	**4.4**	**3.9**	**3.91**	**4.11**	**3.17**	**3.28**	**2**	**1.96**	**1.96**	**0.83**	**2.14**	**2.9**	**4.1**	**1.8**
BOD	NA	2	---	---	---	---	---	---	---	---	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250		---	---	---	---	---	---	---	---	<5	<5	<5.0	<5.0	2.5	2.7	3.0
COD	NA	---	---	---	---	---	---	31	---	---	<25	<25	<25.0	53	<25.0	<25	<25
Nitrate	10	0.1	0.27	0.1	---	0.1	---	0.19	0.13	0.48	0.71	0.97	0.93	0.79	0.8	0.44	1.0
Sulfate	250		29	22	30	23.9	27.5	24.3	26.4	17.3	19.9	19.9	13.7	21.1	22.5	18.6	15.4
TDS	500	82	120	84	86	104	114	86	126	144	124	106	113	116	145	177	137
TOC	NA	10	18	4.3	5.3	---	14.6	26.3	6.8	1.9	5.3	4.7	5.2	38.8	<1.0	5	5.6

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-4)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/19/10	07/15/10	01/27/11	07/12/11	01/25/12	07/25/12	01/24/13	07/9-10/13
Barium	0.7	0.15	0.18	0.15	0.2	0.163	0.225	0.333	**1.12**	0.129	0.133	0.12	0.123	0.126	0.118	0.118	0.112
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	---	---	---	**0.023**	---	---	**0.0285**	**0.208**	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper	1	---	---	---	0.0024	---	---	0.0112	0.0529	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	0.30	0.17	**0.34**	**0.65**	**2.4**	**1.45**	**0.49**	**8.08**	**40.1**	---	<0.05	<0.05	<0.0500	<0.0500	<0.500	<0.0500	<0.0500
Lead	0.015	---	---	---	---	---	---	---	0.009	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	**0.058**	**0.063**	**0.092**	**0.1**	**0.187**	**0.137**	**0.26**	**0.902**	**0.0681**	**0.0694**	**0.0745**	**0.0691**	**0.093**	**0.071**	**0.0739**	**0.0569**
BOD	NA	6	2.3	2	2	2.2	4.5	4.4	4.1	2	<2	2.3	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250		20	19	19	19	21.2	19.8	19.2	19.9	20.8	18.4	17.5	18.4	16.2	13.4	15.5
COD	NA	---	41	48	---	---	---	48	50.1	---	32	<25	<25.0	<25.0	<25.0	<25	<25
Nitrate	10	0.81	0.91	1	1.2	0.94	0.72	0.71	0.62	0.81	0.76	0.86	0.83	0.87	0.86	1.0	0.95
Sulfate	250		---	---	---	---	---	---	---	---	<5	<5	<5.0	<5.0	<2.0	<2.0	<2.0
TDS	500	78	110	38	120	84	88	48	130	78	76	72	77	51	76	78	74
TOC	NA	19	23	8.2	12	4.2	15	20.6	8.2	9.6	38.6	6.2	6.5	5.5	4.4	4.5	5.6

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-5)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/20/10	07/16/10	01/28/11	07/13/11	01/26/12	07/25/12	01/23/13	07/9-10/13
Barium	0.7	0.2	0.13	0.19	0.22	0.12	0.174	0.131	0.182	0.152	0.17	0.0944	0.161	0.136	0.153	0.176	0.155
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	0.003	---	---	0.0089	---	0.0067	---	**0.0141**	---	<0.005	<0.005	<0.0050	0.0064	<0.0050	<0.0050	<0.0050
Copper	1	0.003	---	---	0.0095	---	---	---	0.0104	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	0.30	**1.3**	---	0.2	**7.3**	**0.591**	**0.307**	**1.03**	**11**	**1.52**	**1.23**	**4.75**	**2.07**	**1.98**	**1.39**	**1.11**	**5.940**
Lead	0.015	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	**0.22**	**0.077**	**0.18**	**0.26**	**0.217**	**0.155**	**0.925**	**0.245**	**0.306**	**0.145**	**0.643**	**0.0853**	**0.299**	**0.0546**	**0.172**	**0.217**
BOD	NA	---	---	---	---	---	---	---	---	---	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250		12	15	8.2	10.8	7.8	11.7	8.1	16.6	11.4	15.4	10.8	19.9	11	15.6	22.5
COD	NA	---	28	---	---	---	---	---	36	---	<25	<25	<25.0	<25.0	<25.0	<25	<25
Nitrate	10	2.3	1.9	2.1	4.5	2.2	3.1	2.6	3.3	1.2	3.7	0.99	3.5	0.79	3.2	1.3	0.27
Sulfate	250		---	---	---	---	---	---	9.5	---	<5	<5	<5.0	<5.0	<2.0	<2.0	<2.0
TDS	500	20	110	---	24	50	36	30	56	76	32	52	34	37	39	55	57
TOC	NA	5.6	10	2.1	2.6	---	3.7	8.1	2.1	2.6	1.3	2	1.8	3	1.4	2.5	3.3

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-6)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/20/10	07/15/10	01/28/11	07/13/11	01/26/12	07/25/12	01/23/13	07/9-10/13
Barium	0.7	**0.043**	0.1	0.05	0.13	0.0436	0.0473	0.0507	0.0272	0.0202	0.0256	0.033	0.0298	0.0865	0.036	0.0287	0.0146
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	---	0.0082	---	**0.017**	---	---	0.0052	---	---	<0.005	<0.005	<0.0050	**0.019**	<0.0050	<0.0050	<0.0050
Copper	1	---	0.003	---	0.016	---	---	---	---	---	<0.005	<0.005	<0.0050	0.0109	<0.0050	<0.0050	<0.0050
Iron	0.30	**0.21**	**2.8**	**0.58**	**7.7**	0.143	---	**1.86**	0.0503	---	**0.449**	0.0536	<0.0500	**5.7**	**5.16**	<0.050	0.237
Lead	0.015	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	**0.02**	**0.19**	**0.1**	**0.24**	0.0305	0.0245	**0.0877**	**0.112**	0.0054	**0.511**	0.0485	**0.0528**	**0.134**	**1.54**	**0.0718**	0.0102
BOD	NA	2	2	---	---	---	---	---	---	---	9.4	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250		6.1	---	8.6	9.2	11	9.1	7.5	5.5	8	7.7	8.1	7.8	8.5	6.7	4.5
COD	NA	---	---	---	---	---	---	---	31.1	---	<25	<25	<25.0	<25.0	<25.0	<25	<25
Nitrate	10	0.18	0.82	0.91	0.49	0.72	0.69	0.46	0.23	0.14	0.11	0.26	<0.20	<0.20	0.046	0.23	0.029
Sulfate	250		---	---	---	---	---	---	---	---	<5	<5	<5.0	<5.0	<2.0	<2.0	<2.0
TDS	500	---	58	---	---	24	34	---	52	56	<25	<25	<25.0	<25.0	40	41	<25.0
TOC	NA	3.9	5.3	1.2	---	---	1.3	4.4	8.4	7.5	<1	<1	1.4	1.2	1.3	1.5	1.4

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

TABLE 3
WATER QUALITY DATA (MW-7)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-11-137

PARAMETER	2L STND.	SAMPLE COLLECTION DATE															
		01/12/06	07/06/06	01/10/07	07/11/07	01/23/08	07/09/08	01/29/09	07/08/09	01/20/10	07/15/10	01/27/11	07/12/11	01/26/12	07/25/12	01/23/13	07/9-10/13
Barium	0.7	0.057	0.094	0.026	0.048	0.0548	0.0514	0.0526	0.0492	0.0473	0.0493	0.0462	0.0507	0.0523	0.548	0.0551	0.0545
Cadmium	0.002	---	---	---	---	---	---	---	---	---	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	0.01	---	**0.012**	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Copper	1	---	0.01	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Iron	0.30	**0.32**	**4.3**	**0.43**	---	0.051	---	---	0.0738	---	<0.05	<0.05	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
Lead	0.015	---	---	---	---	---	---	---	---	---	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Manganese	0.05	**0.092**	**0.17**	0.026	**0.083**	**0.0898**	**0.0779**	**0.0733**	**0.0683**	**0.0651**	0.047	**0.0586**	**0.0542**	**0.067**	**0.0618**	**0.0684**	**0.0707**
BOD	NA	3	---	---	---	---	3.8	---	---	---	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Chloride	250	-	8.5	6	---	---	5.2	---	---	---	<5	<5	<5.0	<5.0	4.2	4.9	5.2
COD	NA	<25	---	180	---	---	---	---	---	---	<25	<25	<25.0	<25.0	<25.0	<25	<25
Nitrate	10	0.57	0.22	0.11	0.94	1.3	1.2	1.3	0.85	1	1.3	0.79	0.89	0.93	1	0.83	0.82
Sulfate	250		---	---	---	---	---	---	---	---	<5	<5	<5.0	<5.0	<2.0	<2.0	<2.0
TDS	500	---	48	---	---	20	22	---	36	66	<25	<25	<25.0	<25.0	29	30	<25.0
TOC	NA	3.3	5.1	1.3	---	---	4.3	4.3	1.7	1.3	<1	1	1.5	<1.0	1.1	1.5	11.5

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
TOX = Total Organic Halides

All concentrations in milligrams per liter (mg/L)
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
NA = No Standard Established

APPENDIX I
FIELD SAMPLING FORMS

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-1
DATE: 7/10/13
PERSONNEL: C. MARCHM

WELL CONDITION: GOOD
WEATHER: OVERCAST 70°

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: _____ ft
Total Well Depth from TOC: 29.0 ft
Initial Depth to Water (DTW) from TOC: 25.73 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: 28.0 ft
Initial DTW - 0.33 ft from TOC: 26.06 ft

Water Column: 3.27 ft
Well Diameter: 4 in
Borehole Diameter: _____ in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	0840	0855	0905	0910	0915	0920	0925	0930
DTW (ft)	25.73	25.86	25.89	25.93	25.94	25.96	25.99	26.01
Vol Purged (Cumm-ml)	0	750	1000	1250	1500	1750	2000	2250
Flow Rate (ml/min)	50	50	50	50	50	50	50	50
pH (Stand Units)	5.26	4.84	4.62	4.67	4.67	4.65	4.66	4.66
DO (mg/L)	6.34	5.66	5.92	5.53	5.51	5.48	5.48	5.47
Conductivity (mS/sec)	45	44	43	43	43	43	43	41
Turbidity (NTUs)	50.5	54.0	31.5	22.7	20.0	14.2	10.4	10.2
Temperature (°C)	19.99	19.89	19.90	20.04	20.07	20.06	20.04	20.03
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Color (Subjective)	SOME SEDIMENT	SOME SEDIMENT	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
ORP	157.7	170.0	167.6	164.7	166.4	169.5	170.0	172.3

Parameters	#	Type	Size	Preservative
BOD	1	Plastic	1 L	None
COD	1	Plastic	125 ml	H2SO4
TOC	2	Glass	40 ml	HCL orange
TDS	1	Plastic	500 ml	None
Metals	1	Plastic	250 ml	HNO3 red
Chloride	1	Plastic	250 ml	None
SO4, NO2, NO3	1	Plastic	250 ml	None

Sample Time: 0930
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-2
DATE: 7/9/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: CLEAR, HOT, 90+

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: —— ft
Total Well Depth from TOC: 29.82 ft
Initial Depth to Water (DTW) from TOC: 15.35 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~28.0 ft
Initial DTW - 0.33 ft from TOC: 15.58 ft

Water Column: 14.47 ft
Well Diameter: 4 in
Borehole Diameter: —— in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	1315	1330	1345	1355	1400			
DTW (ft)	15.35	15.61	15.62	15.61	15.63			
Vol Purged (Cumm-ml)	0	3000	6000	8000	9000			
Flow Rate (ml/min)	200	200	200	200	200			
pH (Stand Units)	5.07	4.86	4.81	4.78	4.77			
DO (mg/L)	12.03	6.78	5.80	5.89	5.82			
Conductivity (mS/sec)	48	45	44	44	44			
Turbidity (NTUs)	2.48	2.52	3.89	2.61	2.08			
Temperature (°C)	19.80	19.09	19.13	19.16	19.18			
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE			
Color (Subjective)	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR			
ORP	166.0	183.6	163.0	160.7	160.1			

Parameters	#	Type	Size	Preservative
BOD	1	Plastic	1 L	None
COD	1	Plastic	125 ml	H2SO4
TOC	2	Glass	40 ml	HCL orange
TDS	1	Plastic	500 ml	None
Metals	1	Plastic	250 ml	HNO3 red
Chloride	1	Plastic	250 ml	None
SO4, NO2, NO3	1	Plastic	250 ml	None

Sample Time: 1400
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-3
DATE: 7/9/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: OVERCAST 80's

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: — ft
Total Well Depth from TOC: 20.0 ft
Initial Depth to Water (DTW) from TOC: 8.08 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~19.0 ft
Initial DTW - 0.33 ft from TOC: 8.41 ft

Water Column: 11.92 ft
Well Diameter: 4 in
Borehole Diameter: — in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	0855	0925	0940	0955	1005			
DTW (ft)	8.08	8.31	8.41	8.43	8.44			
Vol Purged (Cumm-ml)	0	3000	5000	6500	7500			
Flow Rate (ml/min)	100	100	100	100	100			
pH (Stand Units)	4.92	4.80	5.04	5.05	5.05			
DO (mg/L)	1.33	0.73	0.58	0.42	0.42			
Conductivity (mS/sec)	78	78	85	81	84			
Turbidity (NTUs)	3.66	1.73	0.70	0.82	0.81			
Temperature (°C)	18.81	18.84	19.90	19.98	19.98			
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE			
Color (Subjective)	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR			
ORP	180.5	189.3	185.2	187.2	185.5			

Parameters	#	Type	Size	Preservative	
BOD ✓	1	Plastic	1 L	None	
COD ✓	1	Plastic	125 ml	H2SO4	
TOC ✓	3	Glass	40 ml	HCL	orange
TDS ✓	1	Plastic	500 ml	None	
Metals ✓	1	Plastic	250 ml	HNO3	red
Chloride ✓	1	Plastic	250 ml	None	
SO4, NO2, NO3	1	Plastic	~~250~~ ml	None	

✓ 1 125 — 125 mL

Sample Time: 1005
Laboratory: Pace Analytical
Shipping Date: 7/16/13
Delivery Date: 7/16/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-4
DATE: 7/9/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: CLEAR, HOT, 90+

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: _____ ft
Total Well Depth from TOC: 27.73 ft
Initial Depth to Water (DTW) from TOC: 14.02 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~26.0 ft
Initial DTW - 0.33 ft from TOC: 14.35 ft

Water Column: 13.71 ft
Well Diameter: 2 in
Borehole Diameter: — in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	1430	1445	1500	1515	1525	1530		
DTW (ft)	14.02	14.13	14.19	14.21	14.20	14.22		
Vol Purged (Cumm-ml)	0	1500	3000	4500	5500	6000		
Flow Rate (ml/min)	100	100	100	100	100	100		
pH (Stand Units)	~~6.07~~	5.66	5.69	5.71	5.72	5.68		
DO (mg/L)	5.40	0.41	0.37	0.31	0.29	0.27		
Conductivity (mS/sec)	110	93	92	93	92	92		
Turbidity (NTUs)	9.16	4.02	2.84	3.16	1.72	1.29		
Temperature (°C)	19.24	18.55	18.40	18.35	18.29	18.32		
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE	NONE		
Color (Subjective)	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR		
ORP	107.5	146.7	150.5	147.7	143.6	141.2		

Parameters	#	Type	Size	Preservative	
BOD	1	Plastic	1 L	None	
COD	1	Plastic	125 ml	H2SO4	
TOC	2	Glass	40 ml	HCL	orange
TDS	1	Plastic	500 ml	None	
Metals	1	Plastic	250 ml	HNO3	red
Chloride	1	Plastic	250 ml	None	
SO4, NO2, NO3	1	Plastic	250 ml	None	

Sample Time: 1530
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-5
DATE: 7/10/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: OVERCAST 80's

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: ____ ft
Total Well Depth from TOC: 21.0 ft
Initial Depth to Water (DTW) from TOC: 5.20 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~20.0 ft
Initial DTW - 0.33 ft from TOC: 5.53 ft

Water Column: 15.80 ft
Well Diameter: 2 in
Borehole Diameter: ____ in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	1155	1210	1220	1225	1230			
DTW (ft)	5.20	5.41	5.42	5.42	5.44			
Vol Purged (Cumm-ml)	0	1500	2500	3000	3500			
Flow Rate (ml/min)	100	100	100	100	100			
pH (Stand Units)	4.57	4.56	4.58	4.57	4.58			
DO (mg/L)	1.34	0.75	0.56	0.54	0.55			
Conductivity (mS/sec)	95	94	94	94	94			
Turbidity (NTUs)	11.3	43.5	25.8	21.3	8.3			
Temperature (°C)	18.80	18.75	19.03	19.02	19.04			
Odor (Subjective)	RED SEDIMENT	NONE	NONE ~~CLEAR~~	NONE	NONE			
Color (Subjective)	NONE	CLEAR ~~NONE~~	CLEAR	CLEAR	CLEAR			
ORP	188.8	190.0	190.4	192.3	193.2			

Parameters	#	Type	Size	Preservative
BOD	1	Plastic	1 L	None
COD	1	Plastic	125 ml	H2SO4
TOC	2	Glass	40 ml	HCL orange
TDS	1	Plastic	500 ml	None
Metals	1	Plastic	250 ml	HNO3 red
Chloride	1	Plastic	250 ml	None
SO4, NO2, NO3	1	Plastic	250 ml	None

Sample Time: 1230
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-6
DATE: 7/10/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: OVERCAST 70's

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: _____ ft
Total Well Depth from TOC: 21.0 ft
Initial Depth to Water (DTW) from TOC: 14.72 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~20 ft
Initial DTW - 0.33 ft from TOC: 15.05 ft

Water Column: 6.28 ft
Well Diameter: 2 in
Borehole Diameter: — in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	1030	1045	1100	1105	1110	1115		
DTW (ft)	14.72	14.75	14.75	14.75	14.78	14.79		
Vol Purged (Cumm-ml)	0	1500	3000	3500	4000	4500		
Flow Rate (ml/min)	100	100	100	100	100	100		
pH (Stand Units)	4.57	4.81	4.87	4.90	4.91	4.90		
DO (mg/L)	7.06	~~[illegible]~~ 6.18	5.76	5.73	5.75	5.75		
Conductivity (mS/sec)	22	22	24.	23	23	23		
Turbidity (NTUs)	70.2	6.16	3.42	2.03	2.57	2.58		
Temperature (°C)	18.18	18.30	18.02	18.03	18.02	18.02		
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE	NONE		
Color (Subjective)	SOME SED	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR		
ORP	170.6	172.5	171.5	169.1	169.7	168.7		

Parameters	#	Type	Size	Preservative	
BOD	1	Plastic	1 L	None	
COD	1	Plastic	125 ml	H2SO4	
TOC	2	Glass	40 ml	HCL	orange
TDS	1	Plastic	500 ml	None	
Metals	1	Plastic	250 ml	HNO3	red
Chloride	1	Plastic	250 ml	None	
SO4, NO2, NO3	1	Plastic	250 ml	None	

Sample Time: 1115
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: MW-7
DATE: 7/9/13
PERSONNEL: C. MARCHIN

WELL CONDITION: GOOD
WEATHER: CLEAR 80S

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: N/A ft
Total Well Depth from TOC: 21.0 ft
Initial Depth to Water (DTW) from TOC: 7.48 ft
Sand Pack or Open Hole: SAND PACK
Depth to intake from TOC: ~20 ft
Initial DTW - 0.33 ft from TOC: 7.81 ft

Water Column: 13.52 ft
Well Diameter: 2 in
Borehole Diameter: — in

Purge Equipment:
Peristaltic Pump, Horiba 22
Hach 2100P Turbidity Meter

Record of Well Evacuation

Time	1055	1115	1130	1140	1145			
DTW (ft)	7.48	7.56	7.58	7.61	7.61			
Vol Purged (Cumm-ml)	0	3000	5500	7000	7750			
Flow Rate (ml/min)	150	150	150	150	150			
pH (Stand Units)	4.85	4.78	4.72	4.69	4.72			
DO (mg/L)	3.95	3.18	2.73	2.78	2.77			
Conductivity (mS/sec)	35	34	32	29	29			
Turbidity (NTUs)	1.51	0.99	1.03	1.12	1.36			
Temperature (°C)	19.60	19.49	18.92	18.93	18.89			
Odor (Subjective)	NONE	NONE	NONE	NONE	NONE			
Color (Subjective)	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR			
ORP	182.1	188.2	191.2	192.4	189.6			

Parameters	#	Type	Size	Preservative	
BOD	1	Plastic	1 L	None	
COD	1	Plastic	125 ml	H2SO4	
TOC	2	Glass	40 ml	HCL	orange
TDS	1	Plastic	500 ml	None	
Metals	1	Plastic	250 ml	HNO3	red
Chloride	1	Plastic	250 ml	None	
SO4, NO2, NO3	1	Plastic	250 ml	None	

Sample Time: 1145
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

PPG INDUSTRIES, INC.
940 WASHBURN SWITCH RD
SHELBY, NORTH CAROLINA
MONITOR WELL SAMPLING LOG

S&ME

S&ME PROJECT #: 1354-11-137

WELL ID: EQ-1
DATE: 7/9/13
PERSONNEL: C.MARCHIN

WELL CONDITION: N/A
WEATHER: CLEAR 70s

REASON FOR SAMPLING: 2013 July Sampling Event

TOC - Ground Level: NA ft
Total Well Depth from TOC: ft
Initial Depth to Water (DTW) from TOC: ft
Sand Pack or Open Hole:
Depth to intake from TOC: ft
Initial DTW - 0.33 ft from TOC: ft

Water Column: N/A ft
Well Diameter: in
Borehole Diameter: in

Purge Equipment:
~~Peristaltic Pump, Horiba 22~~
~~Hach 2100P Turbidity Meter~~

Record of Well Evacuation

Time								
DTW (ft)								
Vol Purged (Cumm-ml)								
Flow Rate (ml/min)								
pH (Stand Units)								
DO (mg/L)								
Conductivity (mS/sec)								
Turbidity (NTUs)								
Temperature (°C)								
Odor (Subjective)								
Color (Subjective)								
ORP								

Parameters	#	Type	Size	Preservative	
BOD	1	Plastic	1 L	None	
COD	1	Plastic	125 ml	H2SO4	
TOC	2	Glass	40 ml	HCL	orange
TDS	1	Plastic	500 ml	None	
Metals	1	Plastic	250 ml	HNO3	red
Chloride	1	Plastic	250 ml	None	
SO4, NO2, NO3	1	Plastic	250 ml	None	

Sample Time: 0822
Laboratory: Pace Analytical
Shipping Date: 7/10/13
Delivery Date: 7/10/13

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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.

Page: 1 of 1

1685834

Section A Required Client Information:

Company: S+ME
Address: 9751 SOUTHERN PINE BLVD
CLT NC
Email To: aquarles@smeinc.com
Phone: 704 523 9726 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: AL QUARLES
Copy To:
Purchase Order No.: 58787
Project Name: PTG SEMI ANNUAL SAMPLING
Project Number: 1354-11-137

Section C Invoice Information:

Attention: BARBARA ELLINGTON
Company Name: S+ME
Address: SAME
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

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

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	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	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 PHOSPHORIC	Analysis Test Y/N	BOD	METALS 1007	TDS	SULFATE	NITRATE	NITRITE	COD	CHLORIDE	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			7/10/13	0930		11	6	1	1					3		X	X	X	X	X	X	X	X	X		
2	MW-2					7/9/13	1400												X	X	X	X	X	X	X	X	X		
3	MW-3					7/9/13	1905												X	X	X	X	X	X	X	X	X		
4	MW-4					7/9/13	1530												X	X	X	X	X	X	X	X	X		
5	MW-5					7/10/13	1230												X	X	X	X	X	X	X	X	X		
6	MW-6					7/10/13	1115												X	X	X	X	X	X	X	X	X		
7	MW-7					7/9/13	1145												X	X	X	X	X	X	X	X	X		
8	EQ-1	WT	G			7/9/13	0922												X	X	X	X	X	X	X	X	X		
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] SAME	7/10/13	1449	[signature]	7/10/13	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: COLEMAN MARCHIN

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/10/13

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

2

*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

APPENDIX II
LABORATORY REPORT

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

July 25, 2013

Mr. Al Quarles
S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, NC 28273

RE: Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Dear Mr. Quarles:
Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2013. 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,

Angela M. Baioni

Angela Baioni

angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92164550001	MW-1	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	DMN	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550002	MW-2	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550003	MW-3	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550004	MW-4	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550005	MW-5	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	DMN	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A

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SAMPLE ANALYTE COUNT

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550006	MW-6	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	DMN	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550007	MW-7	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92164550008	EQ-1	EPA 200.7	SH1	7	PASI-A
		SM 2540C	ANS	1	PASI-A
		SM 5210B	MDW	1	PASI-A
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	2	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A

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HITS ONLY

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92164550001	**MW-1**					
EPA 200.7	Barium	30.7	ug/L	5.0	07/15/13 19:51	
EPA 200.7	Iron	128	ug/L	50.0	07/15/13 19:51	
EPA 200.7	Manganese	9.4	ug/L	5.0	07/15/13 19:51	
SM 2540C	Total Dissolved Solids	<25.0	mg/L	25.0	07/12/13 10:30	
EPA 353.2	Nitrogen, Nitrate	2.2	mg/L	0.020	07/11/13 02:12	
SM 4500-Cl-E	Chloride	5.0	mg/L	1.0	07/24/13 21:42	
SM 5310B	Total Organic Carbon	1.2	mg/L	1.0	07/19/13 19:38	
92164550002	**MW-2**					
EPA 200.7	Barium	25.5	ug/L	5.0	07/15/13 19:54	
EPA 200.7	Iron	52.5	ug/L	50.0	07/15/13 19:54	
EPA 200.7	Manganese	10.6	ug/L	5.0	07/15/13 19:54	
SM 2540C	Total Dissolved Solids	27.0	mg/L	25.0	07/12/13 10:28	
EPA 353.2	Nitrogen, Nitrate	0.61	mg/L	0.020	07/11/13 02:09	
SM 4500-Cl-E	Chloride	7.5	mg/L	1.0	07/24/13 21:43	
SM 5310B	Total Organic Carbon	2.1	mg/L	1.0	07/19/13 19:48	
92164550003	**MW-3**					
EPA 200.7	Barium	124	ug/L	5.0	07/15/13 19:57	
EPA 200.7	Cadmium	<1.0	ug/L	1.0	07/15/13 19:57	
EPA 200.7	Iron	79.7	ug/L	50.0	07/15/13 19:57	
EPA 200.7	Manganese	1800	ug/L	5.0	07/15/13 19:57	
SM 2540C	Total Dissolved Solids	137	mg/L	25.0	07/12/13 10:28	
EPA 300.0	Sulfate	15.4	mg/L	2.0	07/18/13 02:08	
EPA 353.2	Nitrogen, Nitrate	1.0	mg/L	0.020	07/11/13 02:03	
SM 4500-Cl-E	Chloride	3.0	mg/L	1.0	07/24/13 21:45	
SM 5310B	Total Organic Carbon	5.6	mg/L	1.0	07/19/13 19:58	
92164550004	**MW-4**					
EPA 200.7	Barium	112	ug/L	5.0	07/15/13 20:21	
EPA 200.7	Manganese	56.9	ug/L	5.0	07/15/13 20:21	
SM 2540C	Total Dissolved Solids	74.0	mg/L	25.0	07/12/13 10:28	
EPA 353.2	Nitrogen, Nitrate	0.95	mg/L	0.020	07/11/13 02:10	
SM 4500-Cl-E	Chloride	15.5	mg/L	1.0	07/24/13 21:49	
SM 5310B	Total Organic Carbon	5.6	mg/L	1.0	07/19/13 20:08	
92164550005	**MW-5**					
EPA 200.7	Barium	155	ug/L	5.0	07/15/13 20:33	
EPA 200.7	Copper	<5.0	ug/L	5.0	07/15/13 20:33	
EPA 200.7	Iron	5940	ug/L	50.0	07/15/13 20:33	
EPA 200.7	Manganese	217	ug/L	5.0	07/15/13 20:33	
SM 2540C	Total Dissolved Solids	57.0	mg/L	25.0	07/12/13 10:31	
EPA 353.2	Nitrogen, Nitrate	0.27	mg/L	0.020	07/11/13 02:14	
SM 4500-Cl-E	Chloride	22.5	mg/L	1.0	07/24/13 21:51	
SM 5310B	Total Organic Carbon	3.3	mg/L	1.0	07/19/13 20:18	
92164550006	**MW-6**					
EPA 200.7	Barium	14.6	ug/L	5.0	07/15/13 20:36	
EPA 200.7	Iron	237	ug/L	50.0	07/15/13 20:36	

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(704)875-9092

HITS ONLY

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92164550006	**MW-6**					
EPA 200.7	Manganese	10.2	ug/L	5.0	07/15/13 20:36	
EPA 353.2	Nitrogen, Nitrate	0.029	mg/L	0.020	07/11/13 02:13	
SM 4500-Cl-E	Chloride	4.5	mg/L	1.0	07/24/13 21:52	
SM 5310B	Total Organic Carbon	1.4	mg/L	1.0	07/23/13 18:08	
92164550007	**MW-7**					
EPA 200.7	Barium	54.5	ug/L	5.0	07/15/13 20:39	
EPA 200.7	Manganese	70.7	ug/L	5.0	07/15/13 20:39	
SM 2540C	Total Dissolved Solids	<25.0	mg/L	25.0	07/12/13 10:29	
EPA 353.2	Nitrogen, Nitrate	0.82	mg/L	0.020	07/11/13 02:08	
SM 4500-Cl-E	Chloride	5.2	mg/L	1.0	07/24/13 21:52	
SM 5310B	Total Organic Carbon	11.5	mg/L	1.0	07/23/13 18:36	
92164550008	**EQ-1**					
EPA 353.2	Nitrogen, Nitrate	0.061	mg/L	0.020	07/11/13 01:58	

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **EPA 200.7**
Description: 200.7 MET ICP
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 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.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

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

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **SM 5210B**
Description: 5210B BOD, 5 day
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for SM 5210B. All samples were received in acceptable condition with any exceptions noted below.

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

Sample Preparation:
The samples were prepared in accordance with with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank 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.

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

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **SM 4500-Cl-E**
Description: 4500 Chloride
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for SM 4500-Cl-E. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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: WETA/15936

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92164365001,92164368001

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

- MS (Lab ID: 1016550)
  - Chloride
- MSD (Lab ID: 1016551)
  - Chloride

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **SM 5220D**
Description: 5220D COD
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for SM 5220D. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank 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: WETA/15929

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92164246001,92165254001

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

- MS (Lab ID: 1015796)
  - Chemical Oxygen Demand
- MSD (Lab ID: 1015797)
  - Chemical Oxygen Demand

Additional Comments:

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PROJECT NARRATIVE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Method: **SM 5310B**
Description: 5310B TOC
Client: S&ME, Inc.
Date: July 25, 2013

General Information:
8 samples were analyzed for SM 5310B. All samples were received in acceptable condition with any exceptions noted below.

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.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-1 **Lab ID: 92164550001** Collected: 07/10/13 09:30 Received: 07/10/13 14:49 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**30.7**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:51	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 19:51	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:51	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:51	7440-50-8	
Iron	**128**	ug/L	50.0	1	07/12/13 12:55	07/15/13 19:51	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:51	7439-92-1	
Manganese	**9.4**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:51	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**<25.0**	mg/L	25.0	1		07/12/13 10:30		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 22:10	07/16/13 22:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 01:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**2.2**	mg/L	0.020	1		07/11/13 02:12		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:12		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.0**	mg/L	1.0	1		07/24/13 21:42	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 09:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.2**	mg/L	1.0	1		07/19/13 19:38	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-2 **Lab ID: 92164550002** Collected: 07/09/13 14:00 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**25.5**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:54	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 19:54	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:54	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:54	7440-50-8	
Iron	**52.5**	ug/L	50.0	1	07/12/13 12:55	07/15/13 19:54	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:54	7439-92-1	
Manganese	**10.6**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:54	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**27.0**	mg/L	25.0	1		07/12/13 10:28		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 00:35	07/15/13 19:40		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 01:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.61**	mg/L	0.020	1		07/11/13 02:09		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:09		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7.5**	mg/L	1.0	1		07/24/13 21:43	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 09:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**2.1**	mg/L	1.0	1		07/19/13 19:48	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-3 **Lab ID: 92164550003** Collected: 07/09/13 10:05 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**124**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:57	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 19:57	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:57	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:57	7440-50-8	
Iron	**79.7**	ug/L	50.0	1	07/12/13 12:55	07/15/13 19:57	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:57	7439-92-1	
Manganese	**1800**	ug/L	5.0	1	07/12/13 12:55	07/15/13 19:57	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**137**	mg/L	25.0	1		07/12/13 10:28		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 00:35	07/15/13 19:40		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**15.4**	mg/L	2.0	1		07/18/13 02:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.0**	mg/L	0.020	1		07/11/13 02:03		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:03		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3.0**	mg/L	1.0	1		07/24/13 21:45	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 09:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**5.6**	mg/L	1.0	1		07/19/13 19:58	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-4 **Lab ID: 92164550004** Collected: 07/09/13 15:30 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**112**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:21	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 20:21	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:21	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:21	7440-50-8	
Iron	**<50.0**	ug/L	50.0	1	07/12/13 12:55	07/15/13 20:21	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:21	7439-92-1	
Manganese	**56.9**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:21	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**74.0**	mg/L	25.0	1		07/12/13 10:28		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 00:35	07/15/13 19:40		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 02:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.95**	mg/L	0.020	1		07/11/13 02:10		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:10		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15.5**	mg/L	1.0	1		07/24/13 21:49	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 09:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**5.6**	mg/L	1.0	1		07/19/13 20:08	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-5 **Lab ID: 92164550005** Collected: 07/10/13 12:30 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**155**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:33	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 20:33	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:33	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:33	7440-50-8	
Iron	**5940**	ug/L	50.0	1	07/12/13 12:55	07/15/13 20:33	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:33	7439-92-1	
Manganese	**217**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:33	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**57.0**	mg/L	25.0	1		07/12/13 10:31		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 22:10	07/16/13 22:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 03:03	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.27**	mg/L	0.020	1		07/11/13 02:14		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:14		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**22.5**	mg/L	1.0	1		07/24/13 21:51	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 10:20		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**3.3**	mg/L	1.0	1		07/19/13 20:18	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-6 **Lab ID: 92164550006** Collected: 07/10/13 11:15 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**14.6**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:36	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 20:36	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:36	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:36	7440-50-8	
Iron	**237**	ug/L	50.0	1	07/12/13 12:55	07/15/13 20:36	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:36	7439-92-1	
Manganese	**10.2**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:36	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**<25.0**	mg/L	25.0	1		07/12/13 10:31		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 22:10	07/16/13 22:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 03:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.029**	mg/L	0.020	1		07/11/13 02:13		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:13		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**4.5**	mg/L	1.0	1		07/24/13 21:52	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 10:20		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.4**	mg/L	1.0	1		07/23/13 18:08	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: MW-7 **Lab ID: 92164550007** Collected: 07/09/13 11:45 Received: 07/10/13 14:49 **Matrix:** Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**54.5**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:39	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 20:39	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:39	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:39	7440-50-8	
Iron	**<50.0**	ug/L	50.0	1	07/12/13 12:55	07/15/13 20:39	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:39	7439-92-1	
Manganese	**70.7**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:39	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**<25.0**	mg/L	25.0	1		07/12/13 10:29		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 00:35	07/15/13 19:40		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 03:30	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.82**	mg/L	0.020	1		07/11/13 02:08		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 02:08		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.2**	mg/L	1.0	1		07/24/13 21:52	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 10:20		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**11.5**	mg/L	1.0	1		07/23/13 18:36	7440-44-0	

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ANALYTICAL RESULTS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Sample: EQ-1 **Lab ID: 92164550008** Collected: 07/09/13 08:22 Received: 07/10/13 14:49 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Barium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:42	7440-39-3	
Cadmium	**<1.0**	ug/L	1.0	1	07/12/13 12:55	07/15/13 20:42	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:42	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:42	7440-50-8	
Iron	**<50.0**	ug/L	50.0	1	07/12/13 12:55	07/15/13 20:42	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:42	7439-92-1	
Manganese	**<5.0**	ug/L	5.0	1	07/12/13 12:55	07/15/13 20:42	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**<25.0**	mg/L	25.0	1		07/12/13 10:29		
5210B BOD, 5 day	Analytical Method: SM 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	07/11/13 00:35	07/15/13 19:40		B4
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**<2.0**	mg/L	2.0	1		07/18/13 03:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.061**	mg/L	0.020	1		07/11/13 01:58		
Nitrogen, Nitrite	**<0.020**	mg/L	0.020	1		07/11/13 01:58		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**<1.0**	mg/L	1.0	1		07/24/13 21:53	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**<25.0**	mg/L	25.0	1		07/25/13 10:20		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		07/23/13 18:48	7440-44-0	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: MPRP/13744 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: 200.7 MET
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1008868 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	<5.0	5.0	07/15/13 18:57	
Cadmium	ug/L	<1.0	1.0	07/15/13 18:57	
Chromium	ug/L	<5.0	5.0	07/15/13 18:57	
Copper	ug/L	<5.0	5.0	07/15/13 18:57	
Iron	ug/L	<50.0	50.0	07/15/13 18:57	
Lead	ug/L	<5.0	5.0	07/15/13 18:57	
Manganese	ug/L	<5.0	5.0	07/15/13 18:57	

LABORATORY CONTROL SAMPLE: 1008869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	455	91	85-115	
Cadmium	ug/L	500	465	93	85-115	
Chromium	ug/L	500	464	93	85-115	
Copper	ug/L	500	453	91	85-115	
Iron	ug/L	5000	4640	93	85-115	
Lead	ug/L	500	464	93	85-115	
Manganese	ug/L	500	460	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008870 — 1008871

Parameter	Units	92164459001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Barium	ug/L	0.039 mg/L	500	500	486	501	89	92	70-130	3	
Cadmium	ug/L	ND	500	500	453	469	91	94	70-130	3	
Chromium	ug/L	ND	500	500	454	472	90	94	70-130	4	
Copper	ug/L	0.084 mg/L	500	500	556	572	94	98	70-130	3	
Iron	ug/L	2.9 mg/L	5000	5000	7270	7450	87	90	70-130	2	
Lead	ug/L	ND	500	500	450	467	90	93	70-130	4	
Manganese	ug/L	0.060 mg/L	500	500	501	516	88	91	70-130	3	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1008872 1008873

Parameter	Units	92164550003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Barium	ug/L	124	500	500	569	564	89	88	70-130	1	
Cadmium	ug/L	<1.0	500	500	453	448	90	89	70-130	1	
Chromium	ug/L	<5.0	500	500	469	465	94	93	70-130	1	
Copper	ug/L	<5.0	500	500	456	451	91	90	70-130	1	
Iron	ug/L	79.7	5000	5000	4700	4650	92	91	70-130	1	
Lead	ug/L	<5.0	500	500	439	432	88	86	70-130	2	
Manganese	ug/L	1800	500	500	2160	2190	74	78	70-130	1	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WET/26185 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1008835 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<25.0	25.0	07/12/13 10:22	

LABORATORY CONTROL SAMPLE: 1008836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	80-120	

SAMPLE DUPLICATE: 1008837

Parameter	Units	92164818003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	491	494	1	

SAMPLE DUPLICATE: 1008838

Parameter	Units	92164550005 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	55.0	4	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WET/26157 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92164550002, 92164550003, 92164550004, 92164550007, 92164550008

METHOD BLANK: 1007819 — Matrix: Water
Associated Lab Samples: 92164550002, 92164550003, 92164550004, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	07/15/13 19:40	

LABORATORY CONTROL SAMPLE: 1007820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	331	167	84.5-115.4	

SAMPLE DUPLICATE: 1007821

Parameter	Units	92164550008 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		B4

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WET/26176 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 92164550001, 92164550005, 92164550006

METHOD BLANK: 1008733 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550005, 92164550006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	07/16/13 22:19	

LABORATORY CONTROL SAMPLE: 1008734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	172	87	84.5-115.4	

SAMPLE DUPLICATE: 1008735

Parameter	Units	92164508002 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	102	89.6	13	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15856 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1010952 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<2.0	2.0	07/18/13 00:20	

LABORATORY CONTROL SAMPLE: 1010953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010954 1010955

Parameter	Units	92164695005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	15.6	20	20	37.0	36.8	107	106	90-110	0	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15806 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1007829 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	<0.020	0.020	07/11/13 01:54	
Nitrogen, Nitrite	mg/L	<0.020	0.020	07/11/13 01:54	

LABORATORY CONTROL SAMPLE: 1007830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	103	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007831 — 1007832

Parameter	Units	92164550008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/L	0.061	2.5	2.5	2.6	2.6	100	100	90-110	0	
Nitrogen, Nitrite	mg/L	<0.020	1	1	1.0	1.0	103	104	90-110	1	

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

QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15936 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92164550001, 92164550002

METHOD BLANK: 1016546 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	07/24/13 21:09	

LABORATORY CONTROL SAMPLE: 1016547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1016548 — 1016549

Parameter	Units	92164365001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	63.0	20	20	81.3	81.8	91	94	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1016550 — 1016551

Parameter	Units	92164368001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	30.0	20	20	57.1	57.3	136	137	75-125	0	M1

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15937 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1016552 — Matrix: Water
Associated Lab Samples: 92164550003, 92164550004, 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	07/24/13 21:44	

LABORATORY CONTROL SAMPLE: 1016553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.7	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1016554 — 1016555

Parameter	Units	92164550003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	3.0	20	20	22.9	22.9	99	99	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1016556 — 1016557

Parameter	Units	92164550004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	15.5	20	20	34.2	34.1	94	93	75-125	0	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15929 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004

METHOD BLANK: 1015792 — Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<25.0	25.0	07/25/13 09:00	

LABORATORY CONTROL SAMPLE: 1015793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	765	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015794 — 1015795

Parameter	Units	92164246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	72.0	750	750	833	840	101	102	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015796 — 1015797

Parameter	Units	92165254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	503	1500	1500	1580	1580	72	72	75-125	0	M1

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15930 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92164550005, 92164550006, 92164550007, 92164550008

METHOD BLANK: 1015800 — Matrix: Water
Associated Lab Samples: 92164550005, 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<25.0	25.0	07/25/13 10:20	

LABORATORY CONTROL SAMPLE: 1015801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	761	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015802 — 1015803

Parameter	Units	92164550005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	<25.0	750	750	724	726	96	96	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015804 — 1015805

Parameter	Units	92164797001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	910	750	750	1750	1770	113	115	75-125	1	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15877 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005

METHOD BLANK: 1012964 Matrix: Water
Associated Lab Samples: 92164550001, 92164550002, 92164550003, 92164550004, 92164550005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	07/19/13 14:21	

LABORATORY CONTROL SAMPLE: 1012965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1012966 1012967

Parameter	Units	92164972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	60.8	25	25	86.3	86.6	102	103	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1012968 1012969

Parameter	Units	92164695003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	11.1	25	25	36.8	37.5	103	106	75-125	2	

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QUALITY CONTROL DATA

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

QC Batch: WETA/15911 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 92164550006, 92164550007, 92164550008

METHOD BLANK: 1014482 — Matrix: Water
Associated Lab Samples: 92164550006, 92164550007, 92164550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	07/23/13 17:37	

LABORATORY CONTROL SAMPLE: 1014483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014484 — 1014485

Parameter	Units	92164550006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	1.4	25	25	26.0	25.9	99	98	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014486 — 1014487

Parameter	Units	92165292004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	4.6	25	25	27.6	27.3	92	91	75-125	1	

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QUALIFIERS

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

B4	The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.
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: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92164550001	MW-1	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550002	MW-2	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550003	MW-3	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550004	MW-4	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550005	MW-5	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550006	MW-6	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550007	MW-7	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550008	EQ-1	EPA 200.7	MPRP/13744	EPA 200.7	ICP/12521
92164550001	MW-1	SM 2540C	WET/26185		
92164550002	MW-2	SM 2540C	WET/26185		
92164550003	MW-3	SM 2540C	WET/26185		
92164550004	MW-4	SM 2540C	WET/26185		
92164550005	MW-5	SM 2540C	WET/26185		
92164550006	MW-6	SM 2540C	WET/26185		
92164550007	MW-7	SM 2540C	WET/26185		
92164550008	EQ-1	SM 2540C	WET/26185		
92164550001	MW-1	SM 5210B	WET/26176	SM 5210B	WET/26178
92164550002	MW-2	SM 5210B	WET/26157	SM 5210B	WET/26159
92164550003	MW-3	SM 5210B	WET/26157	SM 5210B	WET/26159
92164550004	MW-4	SM 5210B	WET/26157	SM 5210B	WET/26159
92164550005	MW-5	SM 5210B	WET/26176	SM 5210B	WET/26178
92164550006	MW-6	SM 5210B	WET/26176	SM 5210B	WET/26178
92164550007	MW-7	SM 5210B	WET/26157	SM 5210B	WET/26159
92164550008	EQ-1	SM 5210B	WET/26157	SM 5210B	WET/26159
92164550001	MW-1	EPA 300.0	WETA/15856		
92164550002	MW-2	EPA 300.0	WETA/15856		
92164550003	MW-3	EPA 300.0	WETA/15856		
92164550004	MW-4	EPA 300.0	WETA/15856		
92164550005	MW-5	EPA 300.0	WETA/15856		
92164550006	MW-6	EPA 300.0	WETA/15856		
92164550007	MW-7	EPA 300.0	WETA/15856		
92164550008	EQ-1	EPA 300.0	WETA/15856		
92164550001	MW-1	EPA 353.2	WETA/15806		
92164550002	MW-2	EPA 353.2	WETA/15806		
92164550003	MW-3	EPA 353.2	WETA/15806		
92164550004	MW-4	EPA 353.2	WETA/15806		
92164550005	MW-5	EPA 353.2	WETA/15806		
92164550006	MW-6	EPA 353.2	WETA/15806		
92164550007	MW-7	EPA 353.2	WETA/15806		
92164550008	EQ-1	EPA 353.2	WETA/15806		
92164550001	MW-1	SM 4500-Cl-E	WETA/15936		
92164550002	MW-2	SM 4500-Cl-E	WETA/15936		
92164550003	MW-3	SM 4500-Cl-E	WETA/15937		
92164550004	MW-4	SM 4500-Cl-E	WETA/15937		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPG Semi Annual Sampling
Pace Project No.: 92164550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92164550005	MW-5	SM 4500-Cl-E	WETA/15937		
92164550006	MW-6	SM 4500-Cl-E	WETA/15937		
92164550007	MW-7	SM 4500-Cl-E	WETA/15937		
92164550008	EQ-1	SM 4500-Cl-E	WETA/15937		
92164550001	MW-1	SM 5220D	WETA/15929		
92164550002	MW-2	SM 5220D	WETA/15929		
92164550003	MW-3	SM 5220D	WETA/15929		
92164550004	MW-4	SM 5220D	WETA/15929		
92164550005	MW-5	SM 5220D	WETA/15930		
92164550006	MW-6	SM 5220D	WETA/15930		
92164550007	MW-7	SM 5220D	WETA/15930		
92164550008	EQ-1	SM 5220D	WETA/15930		
92164550001	MW-1	SM 5310B	WETA/15877		
92164550002	MW-2	SM 5310B	WETA/15877		
92164550003	MW-3	SM 5310B	WETA/15877		
92164550004	MW-4	SM 5310B	WETA/15877		
92164550005	MW-5	SM 5310B	WETA/15877		
92164550006	MW-6	SM 5310B	WETA/15911		
92164550007	MW-7	SM 5310B	WETA/15911		
92164550008	EQ-1	SM 5310B	WETA/15911		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.11	Issuing Authority: Pace Huntersville Quality Office

Client Name: S&ME

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no **Seals intact:** ☐ yes ☐ no

Optional
Proj. Due Date
Proj. Name

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 (T1301) **Type of Ice:** (Wet) Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor **T1102:** No Correction **T1301:** No Correction

Corrected Cooler Temp.: 8.4 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JDB 7/10/13

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: AMB Date: AMB 7/10/13

SRF Review: JDB Date: 7/10/13

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)

WO#: 92164550

92164550

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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.

Page: 1 of 1

1685834

Section A Required Client Information:

Company: SAME
Address: 9101 SOUTHERN PINE BLVD
CLT NC
Email To: aquarles@smelinc.com
Phone: 704 523 4726 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: AL QUARLES
Copy To:
Purchase Order No.: 58787
Project Name: PPG SEMI ANNUAL SAMPLING
Project Number: 1354-11-137

Section C Invoice Information:

Attention: BARBARA ELLINGTON
Company Name: SAME
Address: SAME
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 898-23

REGULATORY AGENCY: ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

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 (PHOSPHORIC)	Analysis Test Y/N	BOD	METALS 200.7	TDS	SULFATE	NITRATE	NITRITE	COD	CHLORIDE	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92164550
1	MW-1	WT	G			7/10/13	0930		11	6	1	1					3		X	X	X	X	X	X	X	X	X		001
2	MW-2					7/9/13	1400												X	X	X	X	X	X	X	X	X		002
3	MW-3					7/9/13	1005												X	X	X	X	X	X	X	X	X		003
4	MW-4					7/9/13	1530												X	X	X	X	X	X	X	X	X		004
5	MW-5					7/10/13	1230												X	X	X	X	X	X	X	X	X		005
6	MW-6					7/10/13	1115												X	X	X	X	X	X	X	X	X		006
7	MW-7					7/9/13	1145												X	X	X	X	X	X	X	X	X		007
8	EQ-1	WT	G	—	—	7/9/13	0922												X	X	X	X	X	X	X	X	X		008
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] SAME	7/10/13	1449	[signature]	7/10/13	1919	53.4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: COLEMAN MARCHIN

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/10/13

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

ORIGINAL

*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