PPG Industries Fiber Glass Products, Inc. 940 Washburn Switch Road Shelby, NC 28150

Richard Young
Senior Engineer Associate
Environmental

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Richardyoung@ppg.com

RECEIVED
MAR 15 2010
SUPERFUND SECTION

March 12, 2010

Mr. Matt Gamble, Hydrogeologist
Solid Waste Division, NC DENR
1646 Mail Service Center
Raleigh, NC 27699-1646

RECEIVED
APR 15 2010
SOLID WASTE SECTION

Sent Via Certified Mail – Return Receipt Requested

Subject: Semi-Annual Groundwater Monitoring Results

Dear Mr. Gamble:

Enclosed are the results from the Janurary 2009 sampling and analysis of the seven groundwater monitoring wells at PPG Industries Fiber Glass Products, Inc. located in Shelby.

If there are any questions, please contact me at (704) 434-2261 extension 359.

Sincerely,

Richard Young

cc: File

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MAR 15 2010
SUPERFUND SECTION

GROUNDWATER MONITORING REPORT
PPG INDUSTRIES, INC.
JANUARY 2010
940 WASHBURN SWITCH ROAD
SHELBY, CLEVELAND CO., NC
S&ME PROJECT # 1354-99-219B

SOLID WASTE SECTION
RECEIVED
APR 15 2010

Prepared for:

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

Prepared by:

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

February 23, 2010

February 23, 2010

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

Attention: Mr. Richard Young

Reference: **Groundwater Monitoring Report**
January 2010 Semi-Annual Monitoring Event
PPG Industries, Inc.
940 Washburn Switch Road
Shelby, Cleveland County, North Carolina
S&ME Project # 1354-99-219B

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. 1354-22335-09A dated November 17, 2009. The January 2010 sampling results indicated concentrations of iron (MW-3 and MW-5) and manganese (MW-3, MW-4, MW-5, and MW-7) at levels exceeding the 15A NCAC 2L .0202 groundwater quality standards (2L Standards), 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.

Haytham Kasem
Staff Professional

Al Quarles, L.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

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GROUNDWATER MONITORING REPORT
JANUARY 2010 MONITORING EVENT
PPG INDUSTRIES, INC.
940 WASHBURN SWITCH ROAD
SHELBY, CLEVELAND CO., NC
S&ME PROJECT # 1354-99-219B

1 INTRODUCTION

S&ME includes herein, the results of the January 2010 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.

During the monitoring event, depth-to-groundwater measurements were recorded and groundwater samples were collected for laboratory analyses from seven existing monitoring wells. 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. Previous water quality data are also summarized in the attached tables.

2 SAMPLING METHODOLOGY

On January 19 and 20, 2010, S&ME and PPG personnel measured the depth to groundwater in the monitor wells from the top of monitor well casings. 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 method consistent with NCDENR guidance and EPA standard operating procedures was performed using a peristaltic pump with new tubing for each well. The base of the pump was placed at ~1 to 2 feet from the base of each well and pumped at the lowest possible rate to reduce drawdown, during purging of each well; S&ME recorded pH, specific conductance, temperature, D.O. and turbidity. The wells were purged until the water level has stabilized (well recovery rate equals purge rate with a maximum drawdown of 0.33 feet). Purging was complete when three (3) consecutive measurements are taken in which:

- D.O ±0.2 mg/L or 10% (whichever is greater),
- turbidity ±5.0 NTUs or 10% (whichever is greater),
- temperature ±0.2 °C,
- pH ±0.2 Standard Units, and
- specific conductance ±5.0%.

After field measurements were 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 SW-846 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

The depth-to-water measurements were subtracted from the top of well casing elevations to provide the groundwater surface elevation data. The groundwater surface elevations are summarized in Table 1 and presented in Figure 3. The inferred direction of groundwater flow is generally to the northwest.

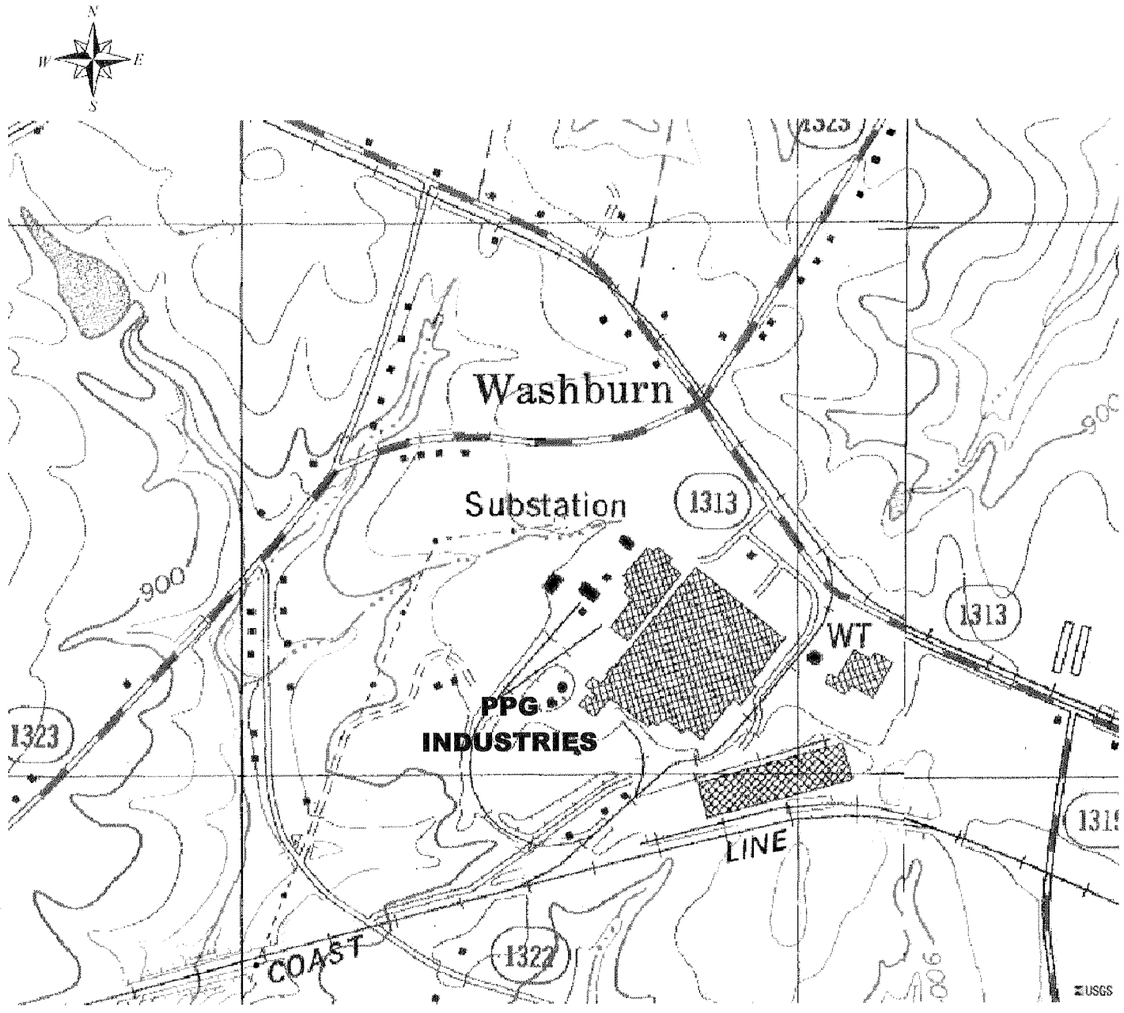
3.2 Groundwater Quality

Iron in monitor wells MW-3 and MW-5 and manganese in monitor wells MW-3, MW-4, MW-5, and MW-7 were detected at concentrations above the 2L Standards. The results of the January 2010 groundwater sampling event are summarized in Table 2.

Historical water quality data are presented in Table 3 (seven pages). Comparison of the data indicates relatively consistent detections of iron and manganese in all wells, fluctuating between non-detectable concentrations to concentrations exceeding the 2L Standards. Chromium concentrations decreased in MW-4 to below the 2L Standard. Iron concentrations decreased to below detection limits in MW-1, MW-2, MW-4, MW-6 and MW-7. Iron also decreased significantly in MW-5 (from 11 to 1.52 micrograms per liter or μg/L) but increased in MW-3 (from 0.328 to 0.845 μg/L). Manganese concentrations have also decreased in all wells except MW-5 (0.245 to 0.306 μg/L) during this sampling event compared to the July 2009 sampling event.

In MW-4, the July 2009 metal concentrations were higher than those detected previously or in January 2010. The concentrations of the non-metal inorganics did not have a similar increase in July 2009. Thus, the July 2009 metal results appear to be an anomaly and possibly associated with suspended sediment.

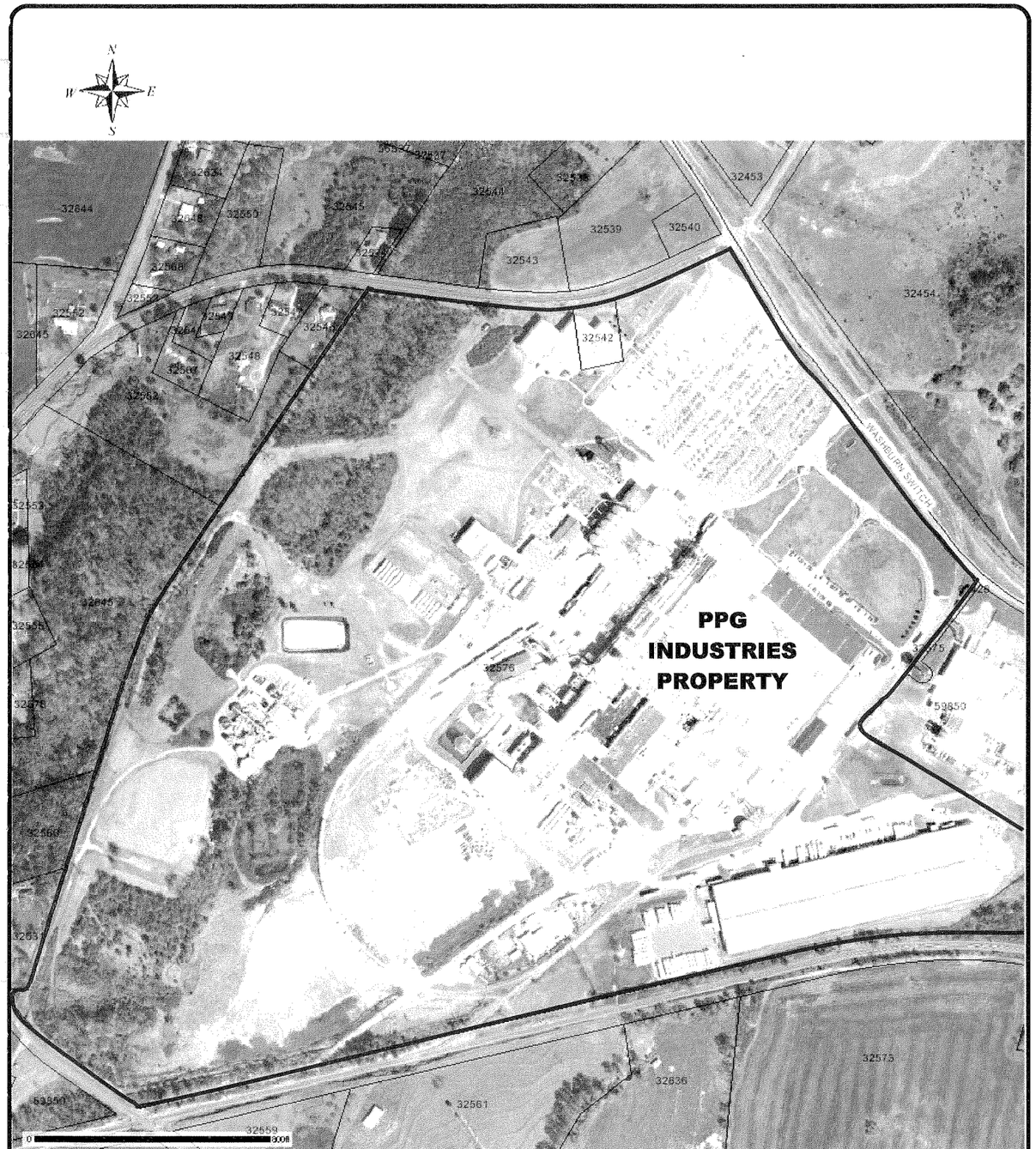
Lead and chromium have also had historical concentrations that exceeded the 2L standards in several wells; however, the detections are more sporadic than those for iron and manganese. Based on these findings, S&ME recommends that semi-annual groundwater monitoring continue.



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

Approximate Location of Subject Property

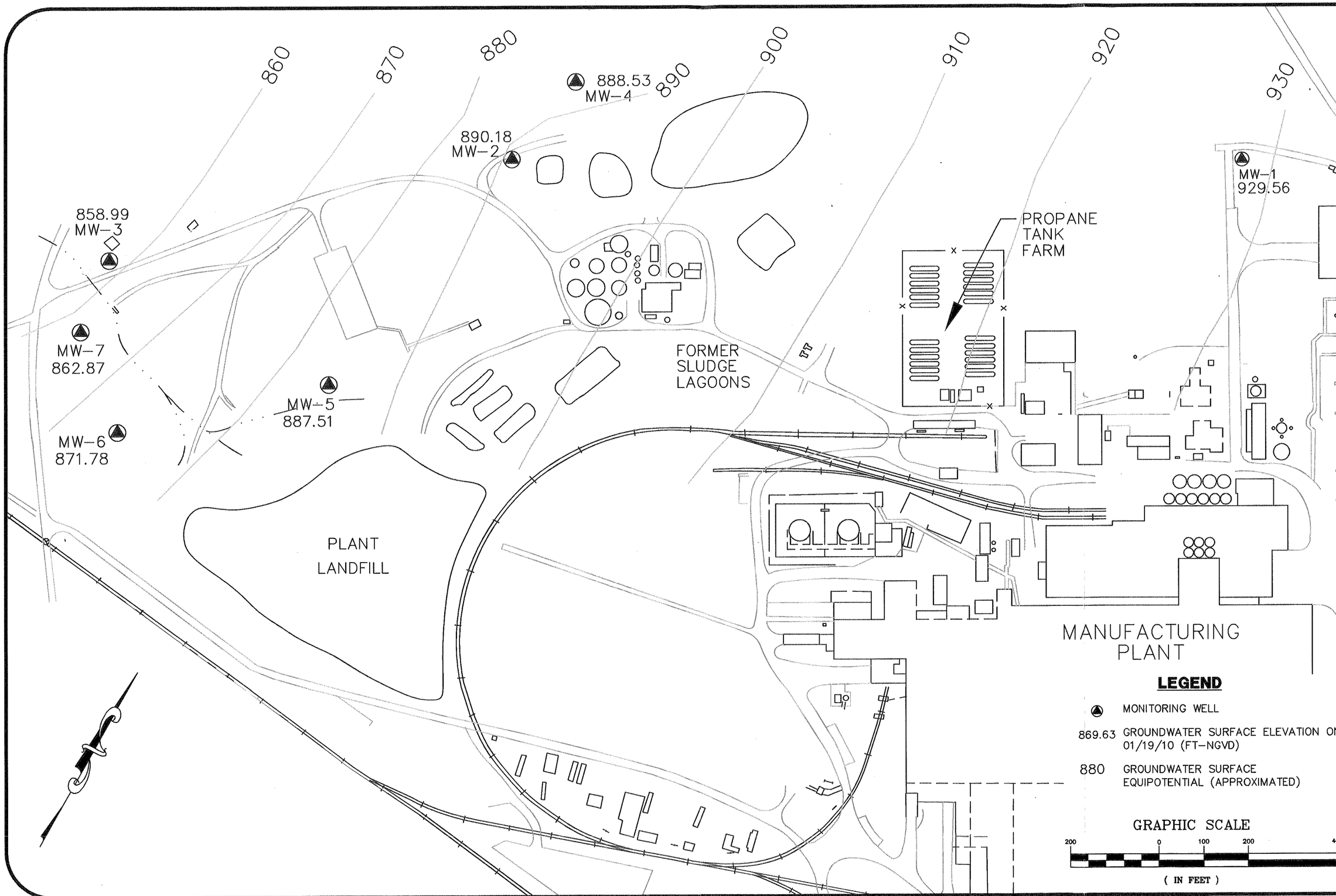
Scale: As Shown	S&ME	**SITE LOCATION MAP** PPG Industries 940 Washburn Switch Road Shelby, North Carolina	**Figure**
Drawn by: WAQ			**1**
Checked by: HFK			
Date: 2-23-2010		S&ME Job No.: 1354-99-219B	



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**
Drawn by: WAQ			**2**
Checked by: HFK			
Date: 2-23-2010		S&ME Job No.: 1354-99-219B	



DATE: 3-23-10
DRAWN BY: CLD
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 1354-99-219B

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GROUNDWATER CONTOUR MAP

PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA

FIGURE NO.
3

Q:\1354\1999\99-219A PPG IND\FIG-1-2-2010.dwg

Table 1

Water Levels and Well Purging Data (1/19 & 1/20/2010)
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219B

PARAMETER	MONITOR WELL ID						
	MW-1	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
TOP OF CASING ELEVATION	953.03	904.41	867.01	901.39	892.41	886.65	870.34
DEPTH TO WATER	23.47	14.23	8.02	12.86	4.90	14.87	7.47
WATER LEVEL ELEVATION	929.56	890.18	858.99	888.53	887.51	871.78	862.87
ELEVATION CHANGE	1.37 **	3.12 **	0.98 **	2.77 **	2.86 **	2.53 **	1.23 **
WELL DEPTH (FT)	29	30	20	24	21	21	21
SAMPLE APPEARANCE	clear	clear	clear	clear	clear	clear	clear
FLOW (ml/min)	125	240	125	250	250	200	200
pH (STANDARD UNITS)	4.8	4.81	5.55	5.21	4.91	4.98	4.95
CONDUCTIVITY (μmhos/cm)	66	52	350	127	99	66	61
TURBIDITY (ntu)	0	247#	5.3	38.7	5.3	2.61	7.58
DISSOLVED OXYGEN (mg/l)	7.28	9.39	1.83	0.58	1.84	6.83	2.96
TEMPERATURE (°C)	17.25	16.78	15.32	16.01	13.19	14.57	12.91
TDS (g/l)	0.04	0.03	0.23	0.08	0.06	0.04	0.07
ORP (mV)	355	305	155	243	242	373	339

NOTES: Elevations and depths reported in feet.
** Difference in feet from July 2009 groundwater elevation.
# Turbidity from a rental meter. Oither from S&ME meter.

TABLE 2

WATER QUALITY DATA (1/19 & 1/20/2010)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNITS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	15A NCAC 2L STND. Current
Barium	mg/L	0.0295	0.0276	0.105	0.129	0.152	0.0202	0.0473	0.7
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Chromium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Copper	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1
Iron	mg/L	<0.05	<0.05	**0.845** *	<0.05	**1.52** *	<0.05	<0.05	0.3
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015
Manganese	mg/L	0.007	0.0099	**2** *	**0.0681** *	**0.306** *	0.0054	**0.0651** *	0.05
Chloride	mg/L	<5	7.6	<5	19.9	16.6	5.5	<5	250
Nitrate	mg/L	2.3	0.53	0.48	0.81	1.2	0.14	1	10
Sulfate	mg/L	<5	<5	17.3	<5	<5	<5	<5	250
BOD	mg/L	<2	<2	<2	2	<2	<2	<2	NA
COD	mg/L	<25	<25	<25	<25	<25	<25	<25	NA
TOC	mg/L	<1	2.5	1.9	9.6	2.6	7.5	1.3	NA
TDS	mg/L	52	30	144	78	76	56	66	500

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 # 1354-99-219B

PARAMETER	UNIT	SAMPLE COLLECTION DATE													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/20/10	
Barium	mg/L	0.027	0.032	0.032	0.032	0.034	0.028	0.03	0.034	dry	dry	dry	0.0291	0.0295	0.7
Cadmium	mg/L	---	---	---	---	---	---	---	---	dry	dry	dry	---	---	0.002
Chromium	mg/L	---	---	---	---	---	---	---	---	dry	dry	dry	---	---	0.01
Copper	mg/L	---	---	---	---	---	---	---	---	dry	dry	dry	---	---	1
Iron	mg/L	0.056	0.053	**0.780**	0.063	**0.39**	---	**0.32**	**0.59**	dry	dry	dry	**0.388**	---	0.30
Lead	mg/L	---	0.0056	---	---	---	---	---	---	dry	dry	dry	---	---	0.015
Manganese	mg/L	0.0088	0.011	0.02	0.011	0.014	0.006	0.0091	0.016	dry	dry	dry	0.0128	0.007	0.05
Chloride	mg/L	5.1	5.2	5.2	5.5	-	---	6.1	---	dry	dry	dry	5.8	---	250
Nitrate	mg/L	2.6	2.4	2.1	2	2.3	2.1	2.0	2.6	dry	dry	dry	2	2.3	10
Sulfate	mg/L	---	---	13	---	-	---	---	---	dry	dry	dry	---	---	250
BOD	mg/L	---	2	---	2	---	---	---	---	dry	dry	dry	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	dry	dry	dry	---	---	NA
TOC	mg/L	14	---	---	0.61	3.5	5	---	1.8	dry	dry	dry	2.7	---	NA
TDS	mg/L	56	---	---	38	---	30	---	50	dry	dry	dry	44	52	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-2)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNIT	SAMPLE COLLECTION DATE													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/19/10	
Barium	mg/L	0.024	0.027	0.032	0.026	0.027	0.025	0.015	0.026	0.0238	0.0305	0.0229	0.0269	0.0276	0.7
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	0.1	0.083	**0.66**	---	---	0.11	---	**0.49**	---	0.0591	---	**0.341**	<0.05	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	0.02	0.025	0.046	0.016	0.015	0.019	0.016	0.028	0.0236	**0.0539**	0.0204	0.0249	0.0099	0.05
Chloride	mg/L	7.9	8	7.4	7	-	5.5	6.4	6.9	---	17.6	---	6.7	7.6	250
Nitrate	mg/L	0.58	0.63	0.54	0.42	0.5	0.42	0.4	0.48	0.3	0.32	0.2	0.42	0.53	10
Sulfate	mg/L	---	---	---	---	-	---	---	---	---	---	---	---	---	250
BOD	mg/L	2	2	---	---	4	---	---	---	---	---	10.8	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	12	---	---	---	6.2	9	2	3.7	---	8.2	10.7	2.9	2.5	NA
TDS	mg/L	48	38	---	38	---	42	---	---	32	28	---	52	30	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-3)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNIT	SAMPLE COLLI													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/20/10	
Barium	mg/L	0.086	0.084	0.087	0.084	0.082	0.11	0.074	0.096	0.0854	0.0911	0.0787	0.0885	0.105	1
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.01
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	**0.5**	**2.1**	**2**	**3.4**	**7.9**	**1.5**	**6.6**	**0.56**	**2.5**	**4.07**	**1.52**	**0.328**	**0.845**	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**2**	**2.8**	**2.8**	**2.8**	**4**	**2.1**	**4.4**	**3.9**	**3.91**	**4.11**	**3.17**	**3.28**	**2**	0.05
Chloride	mg/L	4.2	---	2.4	---	-	---	---	---	---	---	---	---	---	250
Nitrate	mg/L	0.31	---	0.17	---	0.1	0.27	0.1	---	0.1	---	0.19	0.13	0.48	10
Sulfate	mg/L	21	23	25	27	-	29	22	30	23.9	27.5	24.3	26.4	17.3	250
BOD	mg/L	---	2	---	---	2	---	---	---	---	---	---	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	---	---	31	---	---	NA
TOC	mg/L	3.9	0.81	---	0.82	10	18	4.3	5.3	---	14.6	26.3	6.8	1.9	NA
TDS	mg/L	120	62	68	120	82	120	84	86	104	114	86	126	144	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-4)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNIT	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/19/10	15A NCAC 2L STND.
Barium	mg/L	0.14	0.14	0.14	0.16	0.15	0.18	0.15	0.2	0.163	0.225	0.333	1.12	0.129	0.7
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	---	---	0.0044	---	---	---	0.023	---	---	0.0285	**0.208**	---	0.01
Copper	mg/L	---	---	---	---	---	---	---	0.0024	---	---	0.0112	0.0529	---	1
Iron	mg/L	0.25	---	0.14	**0.67**	0.17	**0.34**	**0.65**	**2.4**	**1.45**	**0.49**	**8.08**	**40.1**	---	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	0.009	---	0.015
Manganese	mg/L	**0.053**	**0.05**	**0.069**	**0.062**	**0.058**	**0.063**	**0.092**	**0.1**	**0.187**	**0.137**	**0.26**	**0.902**	**0.0681**	0.05
Chloride	mg/L	22	22	20	22	-	20	19	19	19	21.2	19.8	19.2	19.9	250
Nitrate	mg/L	0.62	0.64	0.6	0.46	0.81	0.91	1	1.2	0.94	0.72	0.71	0.62	0.81	10
Sulfate	mg/L	---	---	14	---	-	---	---	---	---	---	---	---	---	250
BOD	mg/L	3.7	2.0	3.4	3	6	2.3	2	2	2.2	4.5	4.4	4.1	2	NA
COD	mg/L	---	---	---	31	---	41	48	---	---	---	48	50.1	---	NA
TOC	mg/L	6.7	2.9	1.87	5.2	19	23	8.2	12	4.2	15	20.6	8.2	9.6	NA
TDS	mg/L	90	84	78	130	78	110	38	120	84	88	48	130	78	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-5)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNIT	SAMPLE COLLECTION DATE													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/20/10	
Barium	mg/L	0.084	0.13	0.35	0.14	0.2	0.13	0.19	0.22	0.12	0.174	0.131	0.182	0.152	0.7
Cadmium	mg/L	---	---	0.0027	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	0.0022	**0.062**	---	0.003	---	---	0.0089	---	0.0067	---	0.0141	---	0.01
Copper	mg/L	---	0.0032	0.05	---	0.003	---	---	0.0095	---	---	---	0.0104	---	1
Iron	mg/L	**0.4**	**1.9**	**41**	**0.14**	**1.3**	---	0.2	**7.3**	**0.591**	**0.307**	**1.03**	**11**	**1.52**	0.30
Lead	mg/L	---	---	0.0086	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.28**	**0.2**	**0.7**	**0.22**	**0.22**	**0.077**	**0.18**	**0.26**	**0.217**	**0.155**	**0.925**	**0.245**	**0.306**	0.05
Chloride	mg/L	8.9	7.1	11	13	-	12	15	8.2	10.8	7.8	11.7	8.1	16.6	250
Nitrate	mg/L	1.1	2.7	1.7	1.8	2.3	1.9	2.1	4.5	2.2	3.1	2.6	3.3	1.2	10
Sulfate	mg/L	---	---	14	---	-	---	---	---	---	---	---	9.5	---	250
BOD	mg/L	13	---	---	5	---	---	---	---	---	---	---	---	---	NA
COD	mg/L	---	---	---	---	---	28	---	---	---	---	---	36	---	NA
TOC	mg/L	2.8	---	---	---	5.6	10	2.1	2.6	---	3.7	8.1	2.1	2.6	NA
TDS	mg/L	36	---	---	54	20	110	---	24	50	36	30	56	76	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-6)
PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	SAMPLE COLLECTION DATE													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/20/10	
Barium	mg/L	0.027	0.043	0.038	0.053	0.043	0.1	0.05	0.13	0.0436	0.0473	0.0507	0.0272	0.0202	0.7
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	---	---	0.005	---	0.0082	---	0.017	---	---	0.0052	---	---	0.01
Copper	mg/L	---	---	---	0.0031	---	0.003	---	0.016	---	---	---	---	---	1
Iron	mg/L	---	0.067	0.15	**1.5**	0.21	**2.8**	**0.58**	**7.7**	0.143	---	**1.86**	0.0503	---	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	0.0088	**0.051**	0.019	**0.059**	0.02	**0.19**	**0.1**	**0.24**	0.0305	0.0245	**0.0877**	**0.1120**	0.0054	0.05
Chloride	mg/L	7.6	8.6	8.3	8.4	-	6.1	---	8.6	9.2	11	9.1	7.5	5.5	250
Nitrate	mg/L	0.19	0.18	0.1	---	0.18	0.82	0.91	0.49	0.72	0.69	0.46	0.23	0.14	10
Sulfate	mg/L	---	---	13	---	-	---	---	---	---	---	---	---	---	250
BOD	mg/L	---	---	---	2	2	2	---	---	---	---	---	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	---	---	---	31.1	---	NA
TOC	mg/L	3.1	---	---	---	3.9	5.3	1.2	---	---	1.3	4.4	8.4	7.5	NA
TDS	mg/L	32	---	---	40	---	58	---	---	24	34	---	52	56	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards
- = Not tested

TABLE 3

WATER QUALITY DATA (MW-7)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219B

PARAMETER	UNIT	SAMPLE COLLECTION DATE													15A NCAC 2L STND.
		1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	1/23/08	7/9/08	1/29/09	7/8/09	1/20/10	
Barium	mg/L	0.05	0.2	0.28	0.049	0.057	0.094	0.026	0.048	0.0548	0.0514	0.0526	0.0492	0.0473	0.7
Cadmium	mg/L	---	---	0.0013	---	---	---	---	---	---	---	---	---	---	0.002
Chromium	mg/L	---	0.0058	**0.054**	---	---	0.012	---	---	---	---	---	---	---	0.01
Copper	mg/L	---	0.0048	0.22	----	---	0.01	---	---	---	---	---	---	---	1
Iron	mg/L	**0.31**	**2.3**	**21**	----	**0.32**	**4.3**	**0.43**	---	0.051	---	---	0.0738	---	0.30
Lead	mg/L	---	0.0052	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.094**	**0.3**	**0.7**	**0.072**	**0.092**	**0.17**	0.026	**0.083**	**0.0898**	**0.0779**	**0.0733**	**0.0683**	**0.0651**	0.05
Chloride	mg/L	6.1	6.4	5.7	5.6	-	8.5	6	---	---	5.2	---	---	---	250
Nitrate	mg/L	0.16	0.16	0.36	0.21	0.57	0.22	0.11	0.94	1.30	1.20	1.3	0.85	1	10
Sulfate	mg/L	---	---	13	---	-	---	---	---	---	---	---	---	---	250
BOD	mg/L	---	---	---	---	3	---	---	---	---	3.8	---	---	---	NA
COD	mg/L	---	---	---	---	<25	---	180	---	---	---	---	---	---	NA
TOC	mg/L	4.2	---	---	---	3.3	5.1	1.3	---	---	4.3	4.3	1.7	1.3	NA
TDS	mg/L	28	66	---	34	---	48	---	---	20	22	---	36	66	500

NOTES:

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

mg/L = Milligrams per liter
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
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January 29, 2010

Mr. Haythem Kasem
S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, NC 28273

RE: Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

Dear Mr. Kasem:
Enclosed are the analytical results for sample(s) received by the laboratory on January 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9261535001	**MW-4**	Water	01/19/10 11:55	01/19/10 17:00
9261535002	**MW-2**	Water	01/19/10 14:10	01/19/10 17:00

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ANALYTICAL RESULTS

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

Sample: MW-4 **Lab ID: 9261535001** Collected: 01/19/10 11:55 Received: 01/19/10 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Barium	**129**	ug/L	5.0	0.20	1	01/22/10 15:22	01/27/10 03:18	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/22/10 15:22	01/27/10 03:18	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/22/10 15:22	01/27/10 03:18	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/22/10 15:22	01/27/10 03:18	7440-50-8	
Iron	ND	ug/L	50.0	14.0	1	01/22/10 15:22	01/27/10 03:18	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/22/10 15:22	01/27/10 03:18	7439-92-1	
Manganese	**68.1**	ug/L	5.0	0.30	1	01/22/10 15:22	01/27/10 03:18	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**78.0**	mg/L	20.0	20.0	1		01/20/10 16:43		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**2.0**	mg/L	2.0	2.0	1	01/20/10 14:50	01/25/10 11:20		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.81**	mg/L	0.10	0.10	1		01/20/10 11:00		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**19.9**	mg/L	5.0	5.0	1		01/25/10 15:43	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/10 11:14		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**9.6**	mg/L	1.0	1.0	1		01/21/10 22:30	7440-44-0	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	mg/L	5.0	5.0	1		01/26/10 12:41	14808-79-8	

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QUALITY CONTROL DATA

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

QC Batch: MPRP/5722 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: 200.7 MET
Associated Lab Samples: 9261535001, 9261535002

METHOD BLANK: 393571 — Matrix: Water
Associated Lab Samples: 9261535001, 9261535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	01/27/10 02:08	
Cadmium	ug/L	ND	1.0	01/27/10 02:08	
Chromium	ug/L	ND	5.0	01/27/10 02:08	
Copper	ug/L	ND	5.0	01/27/10 02:08	
Iron	ug/L	ND	50.0	01/27/10 02:08	
Lead	ug/L	ND	5.0	01/27/10 02:08	
Manganese	ug/L	ND	5.0	01/27/10 02:08	

LABORATORY CONTROL SAMPLE: 393572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	449	90	85-115	
Cadmium	ug/L	500	449	90	85-115	
Chromium	ug/L	500	461	92	85-115	
Copper	ug/L	500	458	92	85-115	
Iron	ug/L	5000	4710	94	85-115	
Lead	ug/L	500	456	91	85-115	
Manganese	ug/L	500	453	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 393573 393574

Parameter	Units	9261771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	0.038 mg/L	500	500	486	506	90	94	70-130	4	20	
Cadmium	ug/L	0.0020 mg/L	500	500	460	480	92	96	70-130	4	20	
Chromium	ug/L	ND	500	500	474	494	95	99	70-130	4	20	
Copper	ug/L	0.039 mg/L	500	500	525	546	97	101	70-130	4	20	
Iron	ug/L	0.48 mg/L	5000	5000	5190	5400	94	98	70-130	4	20	
Lead	ug/L	0.0052 mg/L	500	500	459	480	91	95	70-130	4	20	
Manganese	ug/L	0.039 mg/L	500	500	497	514	92	95	70-130	3	20	

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QUALITY CONTROL DATA

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

QC Batch: WET/11154
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9261535001, 9261535002

METHOD BLANK: 392334
Matrix: Water
Associated Lab Samples: 9261535001, 9261535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	01/20/10 16:40	

LABORATORY CONTROL SAMPLE: 392335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	80-120	

SAMPLE DUPLICATE: 392336

Parameter	Units	9261326001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3210	3240	1	20	

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QUALITY CONTROL DATA

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

QC Batch: WETA/6621
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9261535001, 9261535002

METHOD BLANK: 392254
Matrix: Water
Associated Lab Samples: 9261535001, 9261535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	01/20/10 11:00	

LABORATORY CONTROL SAMPLE: 392255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE SAMPLE: 392256

Parameter	Units	9261519001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	5	6.3	125	90-110	M0

SAMPLE DUPLICATE: 392257

Parameter	Units	9261519007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

QC Batch: WETA/6655 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 9261535001, 9261535002

METHOD BLANK: 395065 — Matrix: Water
Associated Lab Samples: 9261535001, 9261535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	01/29/10 11:14	

LABORATORY CONTROL SAMPLE: 395066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	762	102	90-110	

MATRIX SPIKE SAMPLE: 395067

Parameter	Units	9261812001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	750	749	100	75-125	

MATRIX SPIKE SAMPLE: 395072

Parameter	Units	9261891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	750	781	104	75-125	

SAMPLE DUPLICATE: 395071

Parameter	Units	9261820001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2460	2400	2	20	

SAMPLE DUPLICATE: 395073

Parameter	Units	9261440001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	976	974	0	20	

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QUALITY CONTROL DATA

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

QC Batch: WETA/6649
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9261535001, 9261535002

METHOD BLANK: 394738
Matrix: Water
Associated Lab Samples: 9261535001, 9261535002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	01/26/10 12:27	

LABORATORY CONTROL SAMPLE: 394739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.8	99	90-110	

MATRIX SPIKE SAMPLE: 394740

Parameter	Units	9261420001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	33.3	20	48.9	78	75-125	

MATRIX SPIKE SAMPLE: 394742

Parameter	Units	9261309001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	221	20	238	86	75-125	

SAMPLE DUPLICATE: 394741

Parameter	Units	9261420002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	35.1	35.2	0	20	

SAMPLE DUPLICATE: 394743

Parameter	Units	9261309002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	1370	1360	1	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPG Shelby 1354-99-219B
Pace Project No.: 9261535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9261535001	**MW-4**	EPA 200.7	MPRP/5722	EPA 200.7	ICP/5288
9261535002	**MW-2**	EPA 200.7	MPRP/5722	EPA 200.7	ICP/5288
9261535001	**MW-4**	SM 2540C	WET/11154		
9261535002	**MW-2**	SM 2540C	WET/11154		
9261535001	**MW-4**	SM 5210B	WET/11146	SM 5210B	WET/11162
9261535002	**MW-2**	SM 5210B	WET/11146	SM 5210B	WET/11162
9261535001	**MW-4**	EPA 353.2	WETA/6621		
9261535002	**MW-2**	EPA 353.2	WETA/6621		
9261535001	**MW-4**	SM 4500-Cl-E	WETA/6646		
9261535002	**MW-2**	SM 4500-Cl-E	WETA/6646		
9261535001	**MW-4**	SM 5220D	WETA/6655		
9261535002	**MW-2**	SM 5220D	WETA/6655		
9261535001	**MW-4**	SM 5310B	WETA/6625		
9261535002	**MW-2**	SM 5310B	WETA/6625		
9261535001	**MW-4**	ASTM D516-90	WETA/6649		
9261535002	**MW-2**	ASTM D516-90	WETA/6649		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: S&ME Project # 926535

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

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

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

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.0 Biological Tissue is Frozen: Yes No (N/A)

Temp should be above freezing to 6°C

Optional	
Proj. Due Date:	N/A
Proj. Name:	N/A

Date and Initials of person examining contents: [illegible] 1/19/10

		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	Initial when completed
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): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 1/20/10

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

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February 08, 2010

Mr. Haythem Kasem
S&ME, Inc.
9751 Southern Pine Blvd.
Charlotte, NC 28273

RE: Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Dear Mr. Kasem:
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9261683001	**MW-1**	Water	01/20/10 16:10	01/20/10 17:50
9261683002	**MW-3**	Water	01/20/10 14:15	01/20/10 17:50
9261683003	**MW-5**	Water	01/20/10 08:35	01/20/10 17:50
9261683004	**MW-6**	Water	01/20/10 10:40	01/20/10 17:50
9261683005	**MW-7**	Water	01/20/10 12:30	01/20/10 17:50

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SAMPLE ANALYTE COUNT

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 5220D	LEP	1
		SM 5310B	RAB	1
		ASTM D516-90	SHB	1

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ANALYTICAL RESULTS

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Sample: MW-3 **Lab ID: 9261683002** Collected: 01/20/10 14:15 Received: 01/20/10 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Barium	**105**	ug/L	5.0	0.20	1	01/26/10 15:11	01/28/10 08:44	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/26/10 15:11	01/28/10 08:44	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/26/10 15:11	01/28/10 08:44	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/26/10 15:11	01/28/10 08:44	7440-50-8	
Iron	**845**	ug/L	50.0	14.0	1	01/26/10 15:11	01/28/10 08:44	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/26/10 15:11	01/28/10 08:44	7439-92-1	
Manganese	**2000**	ug/L	5.0	0.30	1	01/26/10 15:11	01/28/10 08:44	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**144**	mg/L	20.0	20.0	1		01/26/10 12:08		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	01/21/10 15:28	01/26/10 09:09		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.48**	mg/L	0.10	0.10	1		01/21/10 00:42		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		01/30/10 12:58	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/10 11:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**1.9**	mg/L	1.0	1.0	1		02/01/10 15:00	7440-44-0	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**17.3**	mg/L	5.0	5.0	1		01/26/10 12:43	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Sample: MW-6 **Lab ID: 9261683004** Collected: 01/20/10 10:40 Received: 01/20/10 17:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Barium	**20.2**	ug/L	5.0	0.20	1	01/26/10 15:11	01/27/10 22:09	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/26/10 15:11	01/27/10 22:09	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/26/10 15:11	01/27/10 22:09	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/26/10 15:11	01/27/10 22:09	7440-50-8	
Iron	ND	ug/L	50.0	14.0	1	01/26/10 15:11	01/27/10 22:09	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/26/10 15:11	01/27/10 22:09	7439-92-1	
Manganese	**5.4**	ug/L	5.0	0.30	1	01/26/10 15:11	01/27/10 22:09	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**56.0**	mg/L	20.0	20.0	1		01/26/10 12:09		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	2.0	1	01/21/10 15:28	01/26/10 09:09		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.14**	mg/L	0.10	0.10	1		01/21/10 00:45		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**5.5**	mg/L	5.0	5.0	1		01/30/10 12:58	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/10 11:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7.5**	mg/L	1.0	1.0	1		02/01/10 15:00	7440-44-0	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	mg/L	5.0	5.0	1		02/02/10 10:55	14808-79-8	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: MPRP/5729 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: 200.7 MET
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

METHOD BLANK: 394618 — Matrix: Water
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	5.0	01/27/10 20:21	
Cadmium	ug/L	ND	1.0	01/27/10 20:21	
Chromium	ug/L	ND	5.0	01/27/10 20:21	
Copper	ug/L	ND	5.0	01/27/10 20:21	
Iron	ug/L	ND	50.0	01/27/10 20:21	
Lead	ug/L	ND	5.0	01/27/10 20:21	
Manganese	ug/L	ND	5.0	01/27/10 20:21	

LABORATORY CONTROL SAMPLE: 394619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	456	91	85-115	
Cadmium	ug/L	500	449	90	85-115	
Chromium	ug/L	500	457	91	85-115	
Copper	ug/L	500	451	90	85-115	
Iron	ug/L	5000	4720	94	85-115	
Lead	ug/L	500	457	91	85-115	
Manganese	ug/L	500	464	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394620 394621

Parameter	Units	9261652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	ND	500	500	438	432	87	86	70-130	1	20	
Cadmium	ug/L	ND	500	500	466	459	93	92	70-130	2	20	
Chromium	ug/L	ND	500	500	495	489	99	98	70-130	1	20	
Copper	ug/L	11.9	500	500	504	497	98	97	70-130	1	20	
Iron	ug/L	2260	5000	5000	7080	6910	96	93	70-130	2	20	
Lead	ug/L	ND	500	500	442	432	88	86	70-130	2	20	
Manganese	ug/L	17.8	500	500	494	484	95	93	70-130	2	20	

SAMPLE DUPLICATE: 394622

Parameter	Units	9261538003 Result	Dup Result	RPD	Max RPD	Qualifiers
Barium	ug/L	20.0	21.1	5	20	
Cadmium	ug/L	ND	.63J		20	
Chromium	ug/L	0.040 mg/L	41.1	3	20	
Copper	ug/L	0.066 mg/L	69.0	5	20	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: WET/11219 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

METHOD BLANK: 394772 — Matrix: Water
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	01/26/10 12:02	

LABORATORY CONTROL SAMPLE: 394773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	228	91	80-120	

SAMPLE DUPLICATE: 394774

Parameter	Units	9261624001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	72.0	66.0	9	20	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: WET/11176 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9261683001, 9261683002, 9261683004, 9261683005

METHOD BLANK: 393095 — Matrix: Water
Associated Lab Samples: 9261683001, 9261683002, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/26/10 09:09	

LABORATORY CONTROL SAMPLE: 393096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	186	94	84-115	

SAMPLE DUPLICATE: 393097

Parameter	Units	9261607001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: WETA/6681 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

METHOD BLANK: 396925 — Matrix: Water
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	01/30/10 12:57	

LABORATORY CONTROL SAMPLE: 396926

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

MATRIX SPIKE SAMPLE: 396927

Parameter	Units	9262072001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6760	20	6720	-214	75-125	M0

SAMPLE DUPLICATE: 396928

Parameter	Units	9262078001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	167	169	1	20	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: WETA/6687 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

METHOD BLANK: 397025 — Matrix: Water
Associated Lab Samples: 9261683001, 9261683002, 9261683003, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/01/10 15:00	

LABORATORY CONTROL SAMPLE: 397026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.2	97	90-110	

MATRIX SPIKE SAMPLE: 397027

Parameter	Units	9261683001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	25	25.2	99	75-125	

MATRIX SPIKE SAMPLE: 397028

Parameter	Units	9261683002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	25	26.4	98	75-125	

SAMPLE DUPLICATE: 397029

Parameter	Units	9261683003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.6	2.5	5	20	

SAMPLE DUPLICATE: 397030

Parameter	Units	9261683004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	7.5	7.4	1	20	

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QUALITY CONTROL DATA

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

QC Batch: WETA/6694 — Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 — Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9261683003, 9261683004, 9261683005

METHOD BLANK: 397351 — Matrix: Water
Associated Lab Samples: 9261683003, 9261683004, 9261683005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/02/10 10:53	

LABORATORY CONTROL SAMPLE: 397352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.6	98	90-110	

MATRIX SPIKE SAMPLE: 397353

Parameter	Units	9261683003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	20.4	99	75-125	

MATRIX SPIKE SAMPLE: 397355

Parameter	Units	9262102008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	32.0	20	49.3	86	75-125	

SAMPLE DUPLICATE: 397354

Parameter	Units	9261683004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 397356

Parameter	Units	9261794001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	27.2	26.2	4	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPG-SHELBY 1354-99-219B
Pace Project No.: 9261683

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9261683001	**MW-1**	EPA 200.7	MPRP/5729	EPA 200.7	ICP/5297
9261683002	**MW-3**	EPA 200.7	MPRP/5729	EPA 200.7	ICP/5297
9261683003	**MW-5**	EPA 200.7	MPRP/5729	EPA 200.7	ICP/5297
9261683004	**MW-6**	EPA 200.7	MPRP/5729	EPA 200.7	ICP/5297
9261683005	**MW-7**	EPA 200.7	MPRP/5729	EPA 200.7	ICP/5297
9261683001	**MW-1**	SM 2540C	WET/11219		
9261683002	**MW-3**	SM 2540C	WET/11219		
9261683003	**MW-5**	SM 2540C	WET/11219		
9261683004	**MW-6**	SM 2540C	WET/11219		
9261683005	**MW-7**	SM 2540C	WET/11219		
9261683001	**MW-1**	SM 5210B	WET/11176	SM 5210B	WET/11179
9261683002	**MW-3**	SM 5210B	WET/11176	SM 5210B	WET/11179
9261683003	**MW-5**	SM 5210B	WET/11171	SM 5210B	WET/11172
9261683004	**MW-6**	SM 5210B	WET/11176	SM 5210B	WET/11179
9261683005	**MW-7**	SM 5210B	WET/11176	SM 5210B	WET/11179
9261683001	**MW-1**	EPA 353.2	WETA/6623		
9261683002	**MW-3**	EPA 353.2	WETA/6623		
9261683003	**MW-5**	EPA 353.2	WETA/6623		
9261683004	**MW-6**	EPA 353.2	WETA/6623		
9261683005	**MW-7**	EPA 353.2	WETA/6623		
9261683001	**MW-1**	SM 4500-Cl-E	WETA/6681		
9261683002	**MW-3**	SM 4500-Cl-E	WETA/6681		
9261683003	**MW-5**	SM 4500-Cl-E	WETA/6681		
9261683004	**MW-6**	SM 4500-Cl-E	WETA/6681		
9261683005	**MW-7**	SM 4500-Cl-E	WETA/6681		
9261683001	**MW-1**	SM 5220D	WETA/6669		
9261683002	**MW-3**	SM 5220D	WETA/6669		
9261683003	**MW-5**	SM 5220D	WETA/6669		
9261683004	**MW-6**	SM 5220D	WETA/6669		
9261683005	**MW-7**	SM 5220D	WETA/6669		
9261683001	**MW-1**	SM 5310B	WETA/6687		
9261683002	**MW-3**	SM 5310B	WETA/6687		
9261683003	**MW-5**	SM 5310B	WETA/6687		
9261683004	**MW-6**	SM 5310B	WETA/6687		
9261683005	**MW-7**	SM 5310B	WETA/6687		
9261683001	**MW-1**	ASTM D516-90	WETA/6649		
9261683002	**MW-3**	ASTM D516-90	WETA/6649		
9261683003	**MW-5**	ASTM D516-90	WETA/6694		
9261683004	**MW-6**	ASTM D516-90	WETA/6694		
9261683005	**MW-7**	ASTM D516-90	WETA/6694		

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ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical

Sample Condition Upon Receipt

Client Name: S+ME Inc. Project # 9261683

SC 1/20/10

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: N/A
Proj. Name: N/A

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

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.6 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 1/20/10

		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	Initial when completed
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): N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 1/22/10

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)