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Groundwater Monitoring Report
PPG Industries, Inc.

940 Washburn Switch Road
Shelby, North Carolina
S&ME Project # 1354-99-219-B

Received
MAR 2008
Solid Waste Section

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

March 7, 2008

S&ME

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March 7, 2008

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

Attention: Mr. Richard Young

Reference: **Groundwater Monitoring Report**
January 2008 Semi-Annual Monitoring Event
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219B

Dear Mr. Young:

S&ME, Inc. (S&ME) has completed the January 2008 semi-annual groundwater monitoring at the above referenced facility as part of a continuing groundwater monitoring program in accordance with North Carolina Department of Environment and Natural Resources requirements. Laboratory analytical results for groundwater samples collected during the subject event indicate that iron in MW-3, MW-4, and MW-5 and manganese in MW-3, MW-4, MW-5 and MW-7 exceeded the 15A NCAC 2L groundwater quality standards. No other parameters were detected above the referenced groundwater quality standards. Based on these findings, it is recommended that semi-annual groundwater monitoring continue.

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

GROUNDWATER MONITORING REPORT
JANUARY 2008 MONITORING EVENT
PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT # 1354-99-219-B

1.0 Introduction

S&ME includes herein, the results of the January 2008 semi-annual groundwater monitoring event for the referenced PPG Industries, Inc. fiberglass manufacturing plant located in Shelby, North Carolina. The North Carolina Department of Environment and Natural Resources (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 groundwater monitoring wells. Figure 1 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) the results and conclusions of the groundwater quality analyses. Previous water quality data are also summarized in the attached tables.

2.0 Sampling Methodology

On January 22, 2008, S&ME and PPG personnel measured the depth to groundwater in the monitor wells from the top of monitor well casings. Prior to the water level measurements, monitor well seals were removed to allow groundwater levels to equilibrate with atmospheric pressure. Water level measurements were used to calculate well volume for purging prior to sampling and to prepare a groundwater surface map from which the direction of groundwater flow could be inferred, as illustrated in Figure 1. Prior to sample collection, approximately three well volumes of groundwater were purged from each well, or the well was purged until dry, using dedicated Teflon bailers. S&ME recorded the temperature, specific conductance and pH of the groundwater at each sample location during well purging activities. Following purging, the wells were allowed to stabilize for a period of approximately 18 to 24 hours prior to collecting groundwater samples for laboratory analyses. Water level measurements and well purging data are included in Table 1.

On January 23, 2008, S&ME and PPG personnel collected groundwater samples from the wells using dedicated Teflon bailers from each sample location. MW-1 was dry and was not sampled. Groundwater samples were poured into laboratory-provided sample containers directly from the bailers in a manner to reduce 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.

3.0 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 1. The inferred direction of groundwater flow is towards the west.

3.2 Groundwater Quality

With the exception of iron in MW-3, MW-4 and MW-5 and manganese in monitor wells MW-3, MW-4, MW-5 and MW-7, no constituents were reported at concentrations above the 15A NCAC 2L groundwater quality standards. MW-1 was dry and was not sampled. The results of the January 23, 2008 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 15A NCAC 2L groundwater standards. 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, it is recommended that semi-annual groundwater monitoring continue.

Table 1

Water Levels and Well Purging Data (01-22-08)
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219-B

PARAMETER	WELL VOLUME	MONITOR WELL ID						
		MW-1	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
TOP OF CASING ELEVATION		dry	904.41	867.01	901.39	892.41	886.65	870.34
DEPTH TO WATER		dry	23.14	9.10	21.10	8.55	18.03	8.86
WATER LEVEL ELEVATION		dry	881.27	857.91	880.29	883.86	868.62	861.48
ELEVATION CHANGE		dry	-4.61 **	-0.80 **	-4.31 **	-0.05 **	0.01 **	0.15 **
WELL DEPTH (FT)		dry	30	20	24	21	21	21
WATER COLUMN (FT)		dry	6.86	10.90	2.90	12.45	2.97	12.14
WELL VOLUME (GAL)		dry	4.6	7.3	0.5	2.1	0.5	2.0
VOLUME PURGED (GAL)		dry	4.6 (dry)	9 (dry)	3.5	6.5	2.5 (dry)	6.0
SAMPLE APPEARANCE		dry	clear	clear	clear	clear	clear	clear
pH (STANDARD UNITS)	1	dry	5.36	5.93	5.64	5.15	5.27	5.3
	2	dry	5.34	5.97	5.65	5.15	5.21	5.3
	3	dry	dry	5.99	5.67	5.07	5.21	5.30
CONDUCTIVITY (µmhos/cm)	1	dry	25	161	110	63	42	34
	2	dry	27	148	107	58	48	23
	3	dry	dry	130	107	60	45	24
TEMPERATURE (°C)	1	dry	12.0	12.1	11.5	12.0	12.0	9.2
	2	dry	13.2	13.4	12.5	10.5	12.0	10.0
	3	dry	dry	14.4	13.6	12.0	12.5	10.2

NOTES: Elevations and depths reported in feet.
** Difference in feet from January 2007 groundwater elevation.

TABLE 2

WATER QUALITY DATA (1/23/2008)

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

PARAMETER	UNITS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	15A NCAC 2L STND.
Barium	mg/L	Dry	0.0238	0.0854	0.163	0.12	0.0436	0.0548	2
Cadmium	mg/L	Dry	<0.001	<0.001	<0.001	<1	<0.001	<0.001	0.005
Chromium	mg/L	Dry	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Copper	mg/L	Dry	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1
Iron	mg/L	Dry	<0.05	2.5 *	1.45 *	0.591 *	0.143	0.051	0.3
Lead	mg/L	Dry	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015
Manganese	mg/L	Dry	0.0236	3.91 *	0.187 *	0.217 *	0.0305	0.0898 *	0.05
Chloride	mg/L	Dry	<5	<5	19	10.8	9.2	<5	250
Nitrate	mg/L	Dry	0.30	0.1	0.94	2.2	0.72	1.30	10
Sulfate	mg/L	Dry	<5	23.9	<5	<5	<5	<5	250
BOD	mg/L	Dry	<2	<2	2.2	<2	<2	<2	NA
COD	mg/L	Dry	<25	<25	<25	<25	<25	<25	NA
TOC	mg/L	Dry	<1	<1	4.2	<1	<1	<1	NA
TDS	mg/L	Dry	32	104	84	50	24	20	1000

NOTES:
NA = No numerical standard
mg/L = Milligrams per liter
* = Values exceeding 15A NCAC 2L Standards

Table 3

Water Quality Data (MW-1)

PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.032	0.034	dry	0.033	dry	dry	0.032	0.042	0.027	0.032	0.032	0.032	0.034	0.028	0.03	0.034	dry	2
Cadmium	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	dry	0.005
Chromium	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	dry	0.05
Copper	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	dry	1
Iron	mg/L	**1.3**	**0.70**	dry	**0.64**	dry	dry	0.14	0.11	0.056	0.053	**0.780**	0.063	**0.39**	---	**0.32**	**0.59**	dry	0.30
Lead	mg/L	---	---	dry	---	dry	dry	---	---	---	0.0056	---	---	---	---	---	---	dry	0.015
Manganese	mg/L	0.024	0.018	dry	0.016	dry	dry	0.01	0.033	0.0088	0.011	0.02	0.011	0.014	0.006	0.0091	0.016	dry	0.05
Chloride	mg/L	---	---	dry	3.9	dry	dry	4.1	6.4	5.1	5.2	5.2	5.5	/X	---	6.1	---	dry	250
Nitrate	mg/L	2.1	2.2	dry	2	dry	dry	2	1.4	2.6	2.4	2.1	2	2.3	2.1	2.0	2.6	dry	10
Sulfate	mg/L	---	---	dry	4.4	dry	dry	---	---	---	---	13	---	/X	---	---	---	dry	250
BOD	mg/L	---	---	dry	---	dry	dry	---	---	---	2	---	2	---	---	---	---	dry	NA
COD	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	dry	NA
TOC	mg/L	2.6	3	dry	3	dry	dry	0.54	---	14	---	---	0.61	3.5	5	---	1.8	dry	NA
TDS	mg/L	21	13	dry	---	dry	dry	42	120	56	---	---	38	---	30	---	50	dry	1000

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

TABLE 3

WATER QUALITY DATA (MW-2)

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.035	0.044	0.036	0.038	0.057	0.04	0.029	0.03	0.024	0.027	0.032	0.026	0.027	0.025	0.015	0.026	0.0238	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	---	---	---	---	0.0098	---	---	---	---	---	---	---	---	---	---	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	0.12	**0.78**	---	0.27	**3.5**	**0.54**	---	0.07	0.1	0.083	**0.66**	---	---	0.11	---	**0.49**	---	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	0.037	**0.061**	0.037	0.038	**0.18**	0.048	0.019	0.018	0.02	0.025	0.046	0.016	0.015	0.019	0.016	0.028	0.0236	0.05
Chloride	mg/L	7.5	7.6	5.3	5.8	5.1	5.9	5.7	7.3	7.9	8	7.4	7	/X	5.5	6.4	6.9	---	250
Nitrate	mg/L	0.54	0.43	0.2	0.44	0.29	0.48	0.5	0.52	0.58	0.63	0.54	0.42	/X	0.42	0.4	0.48	0.3	10
Sulfate	mg/L	---	---	---	1.2	1.7	---	1.1	---	---	---	---	---	/X	---	---	---	---	250
BOD	mg/L	32	2.5	---	---	---	---	---	---	2	2	---	---	4	---	---	---	---	NA
COD	mg/L	---	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	---	3	---	7	---	/X	0.7	---	12	---	---	---	6.2	9	2	3.7	---	NA
TDS	mg/L	23	---	19	22	20	28	43	22	48	38	---	38	---	42	---	---	32	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

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

TABLE 3

WATER QUALITY DATA (MW-3)

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.069	0.083	0.095	0.095	0.079	0.08	0.098	0.1	0.086	0.084	0.087	0.084	0.082	0.11	0.074	0.096	0.0854	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	**2.4**	**0.45**	**0.92**	**1.00**	**2.6**	**0.69**	**1.6**	**2.1**	**0.5**	**2.1**	**2**	**3.4**	**7.9**	**1.5**	**6.6**	**0.56**	**2.5**	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**2.1**	**1.4**	**1.9**	**2.1**	**3**	**2.1**	**2.9**	**2.4**	**2**	**2.8**	**2.8**	**2.8**	**4**	**2.1**	**4.4**	**3.9**	**3.91**	0.05
Chloride	mg/L	---	---	2.2	3.7	4.9	3.9	4.8	4.5	4.2	---	2.4	---	/X	---	---	---	---	250
Nitrate	mg/L	---	---	0.2	0.26	0.2	0.34	0.28	0.16	0.31	---	0.17	---	0.1	0.27	0.1	---	0.1	10
Sulfate	mg/L	12	5.9	13	14	16	12	17	24	21	23	25	27	/X	29	22	30	23.9	250
BOD	mg/L	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	6.1	10	---	7	4.6	/X	0.7	2.0	3.9	0.81	---	0.82	10	18	4.3	5.3	---	NA
TDS	mg/L	65	49	48	64	81	85	130	22	120	62	68	120	82	120	84	86	104	1000

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

TABLE 3

WATER QUALITY DATA (MW-4)

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.83	0.18	0.16	0.76	0.48	0.22	0.16	0.22	0.14	0.14	0.14	0.16	0.15	0.18	0.15	0.2	0.163	2
Cadmium	mg/L	0.0013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	**0.13**	0.005	0.0028	0.13	**0.053**	0.016	0.0044	0.017	---	---	---	0.0044	---	---	---	0.023	---	0.05
Copper	mg/L	0.038	---	---	0.026	0.012	0.0052	---	0.0041	---	---	---	---	---	---	---	0.0024	---	1
Iron	mg/L	**32**	**1.6**	**0.95**	**29**	**14**	**4.3**	**1.0**	**3.4**	0.25	---	0.14	**0.67**	0.17	**0.34**	**0.65**	**2.4**	**1.45**	0.30
Lead	mg/L	0.0071	---	---	0.0063	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.94**	**0.10**	**0.15**	**0.77**	**0.52**	**0.2**	**0.1**	**0.15**	**0.053**	**0.05**	**0.069**	**0.062**	**0.058**	**0.063**	**0.092**	**0.1**	**0.187**	0.05
Chloride	mg/L	24	25	21	22	20	19	19	22	22	22	20	22	/X	20	19	19	19	250
Nitrate	mg/L	0.39	0.17	0.45	0.92	0.6	0.53	0.55	0.46	0.62	0.64	0.6	0.46	0.81	0.91	1	1.2	0.94	10
Sulfate	mg/L	---	---	---	5.1	1.7	---	1.1	---	---	---	14	---	---	/X	---	---	---	250
BOD	mg/L	10	5.1	5.1	4.8	13	7.5	5.7	2.0	3.7	2.0	3.4	3	6	2.3	2	2	2.2	NA
COD	mg/L	---	33	26	29	27	---	---	38	---	---	---	31	---	41	48	---	---	NA
TOC	mg/L	17	33	---	7	5.3	/X	5	5.8	6.7	2.9	1.87	5.2	19	23	8.2	12	4.2	NA
TDS	mg/L	100	83	20	98	36	120	230	64	90	84	78	130	78	110	38	120	84	1000

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

TABLE 3

WATER QUALITY DATA (MW-5)

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.079	0.12	0.16	0.26	0.11	0.14	0.085	0.093	0.084	0.13	0.35	0.14	0.2	0.13	0.19	0.22	0.12	2
Cadmium	mg/L	---	---	0.0069	---	---	---	---	---	---	---	0.0027	---	---	---	---	---	---	0.005
Chromium	mg/L	0.0036	---	0.0190	**0.0560**	0.0082	0.014	---	0.012	---	0.0022	**0.062**	---	0.003	---	---	0.0089	---	0.05
Copper	mg/L	---	---	0.016	0.034	0.0039	0.014	0.0025	0.01	---	0.0032	0.05	---	0.003	---	---	0.0095	---	1
Iron	mg/L	**1.8**	**1.8**	**11**	**27**	**5.2**	**9.3**	**0.52**	**6.4**	**0.4**	**1.9**	**41**	**0.14**	**1.3**	---	0.2	**7.3**	**0.591**	0.30
Lead	mg/L	---	---	0.0087	0.0049	---	---	---	---	---	---	0.0086	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.087**	**0.085**	**0.39**	**0.48**	**0.34**	**0.25**	**0.16**	**0.2**	**0.28**	**0.2**	**0.7**	**0.22**	**0.22**	**0.077**	**0.18**	**0.26**	**0.217**	0.05
Nitrate	mg/L	1.6	2.5	1.6	1.2	1.5	2.3	1.4	---	1.1	2.7	1.7	1.8	2.3	1.9	2.1	4.5	2.2	10
Sulfate	mg/L	---	---	---	5.5	---	---	---	---	---	---	14	---	-	---	---	---	---	250
BOD	mg/L	---	2	---	---	---	---	---	---	13	---	---	5	---	---	---	---	---	NA
COD	mg/L	---	---	40	---	---	---	---	56	---	---	---	---	---	28	---	---	---	NA
TOC	mg/L	7.7	7	---	9	---	-	---	---	2.8	---	---	---	5.6	10	2.1	2.6	---	NA
TDS	mg/L	22	---	20	---	---	32	70	---	36	---	---	54	20	110	---	24	50	1000

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

TABLE 3

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.062	0.059	0.19	0.16	0.062	0.041	0.033	0.36	0.027	0.043	0.038	0.053	0.043	0.1	0.05	0.13	0.0436	2
Cadmium	mg/L	---	---	**0.0066**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	0.005	0.0033	0.028	0.035	0.0069	---	---	**0.092**	---	---	---	0.005	---	0.0082	---	0.017	---	0.05
Copper	mg/L	---	---	0.015	0.02	---	0.0036	---	0.068	---	---	---	0.0031	---	0.003	---	0.016	---	1
Iron	mg/L	**2**	**1.8**	**8.8**	**12**	**2.9**	**1.2**	0.26	**30**	---	0.067	0.15	**1.5**	0.21	**2.8**	**0.58**	**7.7**	0.143	0.30
Lead	mg/L	0.011	---	0.0051	0.0030	---	---	---	**0.015**	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.084**	**0.067**	**0.240**	**0.320**	**0.084**	0.042	0.014	**0.87**	0.0088	**0.051**	0.019	**0.059**	0.02	**0.19**	**0.1**	**0.24**	0.0305	0.05
Chloride	mg/L	10	10	7.8	6.8	7	6.2	5.8	4.1	7.6	8.6	8.3	8.4	/X	6.1	---	8.6	9.2	250
Nitrate	mg/L	---	---	---	0.23	0.31	0.2	0.14	0.16	0.19	0.18	0.1	---	0.18	0.82	0.91	0.49	0.72	10
Sulfate	mg/L	---	---	---	---	1.5	---	---	---	---	---	13	---	/X	---	---	---	---	250
BOD	mg/L	---	---	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---	NA
COD	mg/L	---	---	---	---	---	---	35	33	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	6.4	7	3	4	---	/X	---	---	3.1	---	---	---	3.9	5.3	1.2	---	---	NA
TDS	mg/L	23	13	---	18	---	35	70	22	32	---	---	40	---	58	---	---	24	1000

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

TABLE 3

WATER QUALITY DATA (MW-7)

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

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	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	15A NCAC 2L STND.
Barium	mg/L	0.044	0.064	0.068	0.076	0.056	0.045	0.057	0.2	0.05	0.2	0.28	0.049	0.057	0.094	0.026	0.048	0.0548	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	0.0013	---	---	---	---	---	---	0.005
Chromium	mg/L	0.0021	0.0045	0.0066	0.0064	0.0022	---	0.0028	0.036	---	0.0058	**0.054**	---	---	0.012	---	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	0.0021	0.016	---	0.0048	0.22	----	---	0.01	---	---	---	1
Iron	mg/L	**0.48**	**1.8**	**2.2**	**2.2**	**0.99**	0.28	**0.8**	**14**	**0.31**	**2.3**	**21**	----	**0.32**	**4.3**	**0.43**	---	0.051	0.30
Lead	mg/L	---	---	---	---	---	---	---	0.0066	---	0.0052	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.082**	**0.11**	**0.15**	**0.13**	**0.1**	**0.086**	**0.1**	**0.5**	**0.094**	**0.3**	**0.7**	**0.072**	**0.092**	**0.17**	0.026	**0.083**	**0.0898**	0.05
Chloride	mg/L	---	---	3.2	3.9	4.2	4.3	4.8	5.7	6.1	6.4	5.7	5.6	/X	8.5	6	---	---	250
Nitrate	mg/L	0.36	0.17	0.36	0.32	0.4	0.22	0.27	0.16	0.16	0.16	0.36	0.21	0.57	0.22	0.11	0.94	1.30	10
Sulfate	mg/L	---	---	---	---	---	---	---	---	---	---	13	---	/X	---	---	---	---	250
BOD	mg/L	---	3	---	---	---	---	---	---	---	---	---	---	3	---	---	---	---	NA
COD	mg/L	---	45	---	---	---	---	---	---	---	---	---	---	<25	---	180	---	---	NA
TOC	mg/L	8.7	4	2	3	---	/X	0.62	---	4.2	---	---	---	3.3	5.1	1.3	---	---	NA
TDS	mg/L	20	---	---	10	11	19	140	50	28	66	---	34	---	48	---	---	20	1000

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

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February 05, 2008

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

RE: Project: PPG 1354-99-219B
Pace Project No.: 9212172

Dear Mr. Kasem:
Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2008. 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

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CERTIFICATIONS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9212172001	**MW-2**	Water	01/23/08 11:55	01/23/08 14:37
9212172002	**MW-3**	Water	01/23/08 10:35	01/23/08 14:37
9212172003	**MW-4**	Water	01/23/08 12:10	01/23/08 14:37
9212172004	**MW-5**	Water	01/23/08 11:20	01/23/08 14:37
9212172005	**MW-6**	Water	01/23/08 10:15	01/23/08 14:37
9212172006	**MW-7**	Water	01/23/08 10:55	01/23/08 14:37

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SAMPLE ANALYTE COUNT

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9212172001	MW-2	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1
9212172002	MW-3	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1
9212172003	MW-4	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1
9212172004	MW-5	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1
9212172005	MW-6	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1

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SAMPLE ANALYTE COUNT

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1
9212172006	**MW-7**	ASTM D516-90,02	DMN	1
		EPA 200.7	SHB	7
		EPA 353.2	EWS	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	DMN	1
		SM 5210B	SAJ	1
		SM 5220D	SER	1
		SM 5310B	SER	1

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-2 **Lab ID: 9212172001** Collected: 01/23/08 11:55 Received: 01/23/08 14:37 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	**23.8**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:26	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:26	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:26	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:26	7440-50-8	
Iron	ND	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:26	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:26	7439-92-1	
Manganese	**23.6**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:26	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**32.0**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0		1	01/24/08 07:30	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.30**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		01/25/08 19:01	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		01/29/08 18:22	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		01/30/08 17:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-3 **Lab ID: 9212172002** Collected: 01/23/08 10:35 Received: 01/23/08 14:37 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	**85.4**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:29	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:29	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:29	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:29	7440-50-8	
Iron	**2500**	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:29	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:29	7439-92-1	
Manganese	**3910**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:29	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0		1	01/24/08 13:00	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.10**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		01/25/08 19:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		01/29/08 18:22	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	**23.9**	mg/L	5.0	5.0	1		01/30/08 17:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-4 **Lab ID: 9212172003** Collected: 01/23/08 12:10 Received: 01/23/08 14:37 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	**163**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:37	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:37	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:37	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:37	7440-50-8	
Iron	**1450**	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:37	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:37	7439-92-1	
Manganese	**187**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:37	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**84.0**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	**2.2**	mg/L	2.0		1	01/24/08 13:00	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.94**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**19.0**	mg/L	5.0	5.0	1		01/25/08 19:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**4.2**	mg/L	1.0	1.0	1		01/29/08 18:22	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		01/30/08 17:20	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-5 **Lab ID: 9212172004** Collected: 01/23/08 11:20 Received: 01/23/08 14:37 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	**120**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:41	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:41	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:41	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:41	7440-50-8	
Iron	**591**	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:41	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:41	7439-92-1	
Manganese	**217**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:41	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**50.0**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0		1	01/24/08 13:00	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**2.2**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10.8**	mg/L	5.0	5.0	1		01/25/08 19:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		01/29/08 18:22	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		01/30/08 17:24	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-6 **Lab ID: 9212172005** Collected: 01/23/08 10:15 Received: 01/23/08 14:37 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	**43.6**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:45	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:45	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:45	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:45	7440-50-8	
Iron	**143**	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:45	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:45	7439-92-1	
Manganese	**30.5**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:45	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**24.0**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0		1	01/24/08 13:00	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.72**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**9.2**	mg/L	5.0	5.0	1		01/25/08 19:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		01/29/08 18:42	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		01/30/08 17:24	14808-79-8	

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ANALYTICAL RESULTS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Sample: MW-7 **Lab ID: 9212172006** Collected: 01/23/08 10:55 Received: 01/23/08 14:37 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	**54.8**	ug/L	5.0	0.20	1	01/25/08 14:41	01/25/08 19:59	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	01/25/08 14:41	01/25/08 19:59	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	01/25/08 14:41	01/25/08 19:59	7440-47-3	
Copper	ND	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:59	7440-50-8	
Iron	**51.0**	ug/L	50.0	14.0	1	01/25/08 14:41	01/25/08 19:59	7439-89-6	
Lead	ND	ug/L	5.0	4.0	1	01/25/08 14:41	01/25/08 19:59	7439-92-1	
Manganese	**89.8**	ug/L	5.0	0.30	1	01/25/08 14:41	01/25/08 19:59	7439-96-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**20.0**	mg/L	1.0		1		01/29/08 16:22		
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0		1	01/24/08 13:00	01/29/08 10:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**1.3**	mg/L	0.10	0.10	1		01/24/08 23:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	mg/L	5.0	5.0	1		01/25/08 19:03	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	mg/L	25.0	25.0	1		01/29/08 20:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	ND	mg/L	1.0	1.0	1		01/29/08 18:42	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		01/30/08 17:28	14808-79-8	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WET/2803 — Analysis Method: SM 5210B
QC Batch Method: SM 5210B — Analysis Description: 5210B BOD, Low Level
Associated Lab Samples: 9212172001

METHOD BLANK: 67985
Associated Lab Samples: 9212172001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
BOD, 5 day	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 67986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	168	85	84-115	

SAMPLE DUPLICATE: 67987

Parameter	Units	9212132002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	265	247	7	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WET/2810 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, Low Level
Associated Lab Samples: 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 68113
Associated Lab Samples: 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
BOD, 5 day	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 68114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	170	86	84-115	

SAMPLE DUPLICATE: 68115

Parameter	Units	9212172005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND	0	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WETA/1977 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 68542
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 68543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE SAMPLE: 68544

Parameter	Units	9212203003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	31.0	5	35.3	85	75-125	

SAMPLE DUPLICATE: 68545

Parameter	Units	9212203002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	2.1	.05	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: MPRP/1779 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 68559
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Barium	ug/L	ND	5.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Copper	ug/L	ND	5.0	
Iron	ug/L	ND	50.0	
Lead	ug/L	ND	5.0	
Manganese	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 68560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	500	526	105	85-115	
Cadmium	ug/L	500	545	109	85-115	
Chromium	ug/L	500	543	109	85-115	
Copper	ug/L	500	538	108	85-115	
Iron	ug/L	5000	5340	107	85-115	
Lead	ug/L	500	542	108	85-115	
Manganese	ug/L	500	540	108	85-115	

MATRIX SPIKE SAMPLE: 68561

Parameter	Units	9212206001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	54.9	500	610	111	70-130	
Cadmium	ug/L	ND	500	572	114	70-130	
Chromium	ug/L	ND	500	580	115	70-130	
Copper	ug/L	15.9	500	588	114	70-130	
Iron	ug/L	ND	5000	5710	114	70-130	
Lead	ug/L	ND	500	565	113	70-130	
Manganese	ug/L	ND	500	573	114	70-130	

SAMPLE DUPLICATE: 68562

Parameter	Units	9212206002 Result	Dup Result	RPD	Max RPD	Qualifiers
Barium	ug/L	52.7	54.3	3	20	
Cadmium	ug/L	ND	ND	200	20	
Chromium	ug/L	ND	2.9J	7	20	
Copper	ug/L	11.1	11.4	3	20	
Iron	ug/L	ND	ND	18	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

SAMPLE DUPLICATE: 68562

Parameter	Units	9212206002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND	200	20	
Manganese	ug/L	ND	2.7J	2	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WETA/1980 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 69221
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 69222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE SAMPLE: 69223

Parameter	Units	9211911002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	13.7	20	33.9	101	75-125	

SAMPLE DUPLICATE: 69224

Parameter	Units	9211884001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	43.7	44.9	3	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WETA/1997 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 69442
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 69443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE SAMPLE: 69444

Parameter	Units	9212212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	14.7	10	26.7	120	75-125	

SAMPLE DUPLICATE: 69445

Parameter	Units	9212292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L		1.2	25	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WET/2859 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 69967
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 69968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	218	87	80-120	

SAMPLE DUPLICATE: 69969

Parameter	Units	9212186001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0J	24.0	29	20	R1

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WETA/2005 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 70304
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	

LABORATORY CONTROL SAMPLE: 70305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	763	102	90-110	

MATRIX SPIKE SAMPLE: 70306

Parameter	Units	9212326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	84.0	750	810	97	75-125	

SAMPLE DUPLICATE: 70307

Parameter	Units	9212328001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1260	1250	.7	20	

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QUALITY CONTROL DATA

Project: PPG 1354-99-219B
Pace Project No.: 9212172

QC Batch: WETA/2012 — Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 — Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

METHOD BLANK: 70863
Associated Lab Samples: 9212172001, 9212172002, 9212172003, 9212172004, 9212172005, 9212172006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 70864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.4	92	90-110	

MATRIX SPIKE SAMPLE: 70865

Parameter	Units	9212187022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	60.0	20	79.4	97	75-125	

SAMPLE DUPLICATE: 70866

Parameter	Units	9212263001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND	0	20	

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QUALIFIERS

Project: PPG 1354-99-219B
Pace Project No.: 9212172

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.

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.

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ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9212172001	MW-2	SM 5210B	WET/2803	SM 5210B	WET/2811
9212172002	MW-3	SM 5210B	WET/2810	SM 5210B	WET/2817
9212172003	MW-4	SM 5210B	WET/2810	SM 5210B	WET/2817
9212172004	MW-5	SM 5210B	WET/2810	SM 5210B	WET/2817
9212172005	MW-6	SM 5210B	WET/2810	SM 5210B	WET/2817
9212172006	MW-7	SM 5210B	WET/2810	SM 5210B	WET/2817
9212172001	MW-2	EPA 353.2	WETA/1977		
9212172002	MW-3	EPA 353.2	WETA/1977		
9212172003	MW-4	EPA 353.2	WETA/1977		
9212172004	MW-5	EPA 353.2	WETA/1977		
9212172005	MW-6	EPA 353.2	WETA/1977		
9212172006	MW-7	EPA 353.2	WETA/1977		
9212172001	MW-2	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172002	MW-3	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172003	MW-4	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172004	MW-5	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172005	MW-6	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172006	MW-7	EPA 200.7	MPRP/1779	EPA 200.7	ICP/1751
9212172001	MW-2	SM 4500-Cl-E	WETA/1980		
9212172002	MW-3	SM 4500-Cl-E	WETA/1980		
9212172003	MW-4	SM 4500-Cl-E	WETA/1980		
9212172004	MW-5	SM 4500-Cl-E	WETA/1980		
9212172005	MW-6	SM 4500-Cl-E	WETA/1980		
9212172006	MW-7	SM 4500-Cl-E	WETA/1980		
9212172001	MW-2	SM 5310B	WETA/1997		
9212172002	MW-3	SM 5310B	WETA/1997		
9212172003	MW-4	SM 5310B	WETA/1997		
9212172004	MW-5	SM 5310B	WETA/1997		
9212172005	MW-6	SM 5310B	WETA/1997		
9212172006	MW-7	SM 5310B	WETA/1997		
9212172001	MW-2	SM 2540C	WET/2859		
9212172002	MW-3	SM 2540C	WET/2859		
9212172003	MW-4	SM 2540C	WET/2859		
9212172004	MW-5	SM 2540C	WET/2859		
9212172005	MW-6	SM 2540C	WET/2859		
9212172006	MW-7	SM 2540C	WET/2859		
9212172001	MW-2	SM 5220D	WETA/2005		
9212172002	MW-3	SM 5220D	WETA/2005		
9212172003	MW-4	SM 5220D	WETA/2005		
9212172004	MW-5	SM 5220D	WETA/2005		
9212172005	MW-6	SM 5220D	WETA/2005		
9212172006	MW-7	SM 5220D	WETA/2005		
9212172001	MW-2	ASTM D516-90,02	WETA/2012		
9212172002	MW-3	ASTM D516-90,02	WETA/2012		
9212172003	MW-4	ASTM D516-90,02	WETA/2012		

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PPG 1354-99-219B
Pace Project No.: 9212172

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9212172004	**MW-5**	ASTM D516-90,02	WETA/2012		
9212172005	**MW-6**	ASTM D516-90,02	WETA/2012		
9212172006	**MW-7**	ASTM D516-90,02	WETA/2012		

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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

1156016

Section A Required Client Information:

Company: SME
Address: 9757 Southern Pine Blvd
Charlotte, NC 28273
Email To:
Phone: 704-523-4726 Fax: 704-525-5953
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Haytham Kasem
Copy To:
Purchase Order No.: Call
Project Name: PPG
Project Number: 1354-99-2193

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 907-1

REGULATORY AGENCY

☒ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Metals 200.7	TOC	TDS	Chloride/Nitrate	Sulfate	BOD	COD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-2	WT	G			01/23/08	1158		9	X	X	X														92172
2	MW-3	WT	G				1035		9	X	X	X														92172001
3	MW-4	WT	G				1210		9	X	X	X														
4	MW-5	WT	G				1120		9	X	X	X														
5	MW-6	WT	G				1015		9	X	X	X														
6	MW-7	WT	G				1055		9	X	X	X														
7																										
8																										
9																										
10																										
11																										
12																										

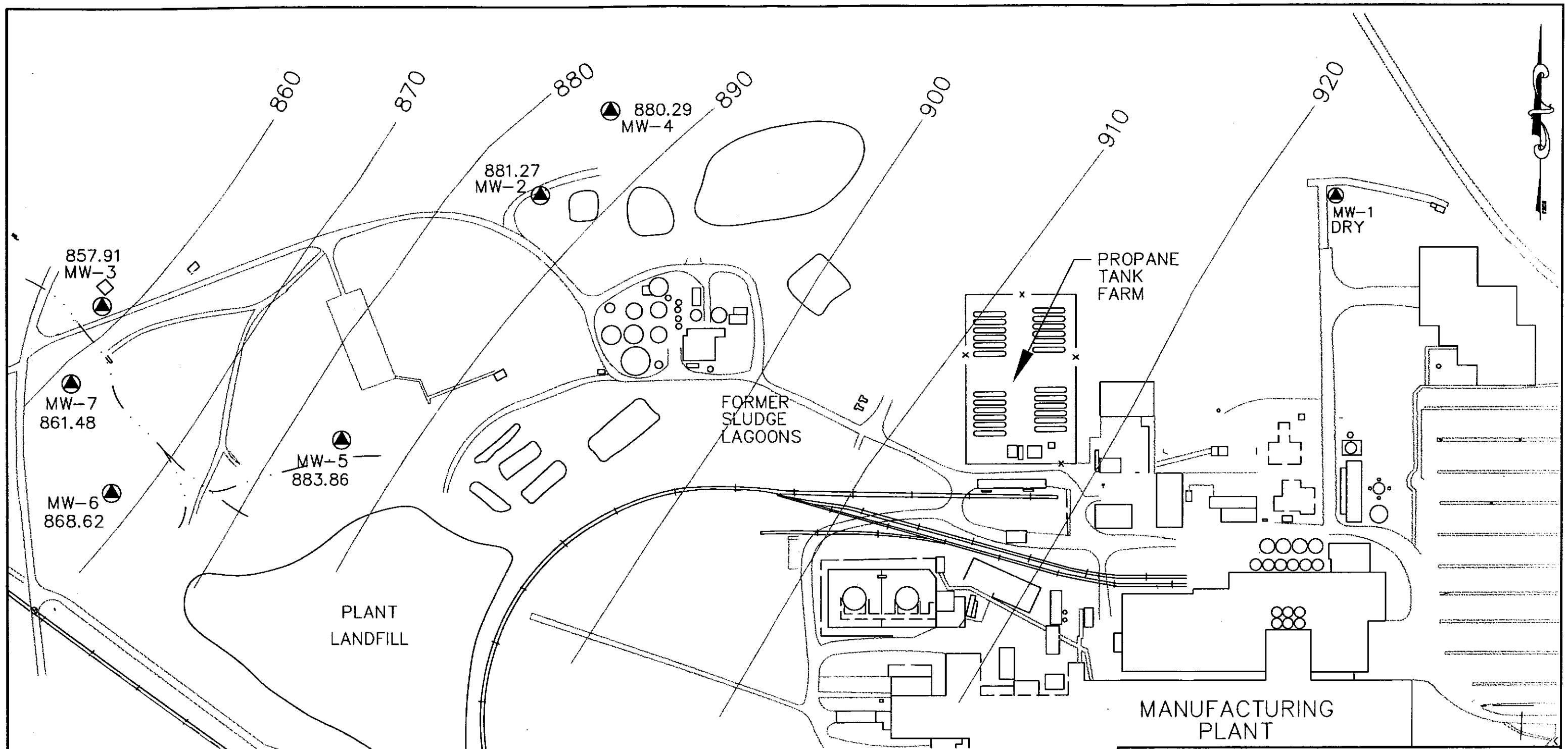
ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	01/23/08	1437	[signature]	1/23/08	14:37	1.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Tom Steeley
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/23/08

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

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



LEGEND

▲	MONITORING WELL
861.48	GROUNDWATER SURFACE ELEVATION ON 01/23/08 (FT-NGVD)
880	GROUNDWATER CONTOUR

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

S&ME
ENGINEERING · TESTING
ENVIRONMENTAL SERVICES

GROUNDWATER CONTOUR MAP

PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	CLH	
JOB NO. 1359-99-219B	DATE: 3/6/08	FIGURE NO. 1

GW7-99.dwg 8-3-99 8:42:16 am EST