

February 23, 2012

Mr. Nate Nemani, P.E.
Environmental Engineer
USEPA Region 5 - Waste, Pesticides and Toxics Division
77 West Jackson Boulevard (DW-8J)
Chicago, IL 60604-3590

Subject: **Transmittal - Analytical Results and Summary of Product Removal at TF-3
PPG Oak Creek Facility
Oak Creek, Wisconsin
EPA ID# WID059972935
Wisconsin FID# 241014620**

Dear Mr. Nemani:

On behalf of PPG Industries, Inc. (PPG), Shaw Environmental, Inc. is transmitting with this letter the tabulated analytical results and the groundwater elevation maps generated as a result of the March and September 2011 sampling events at the former tank farm area of the Oak Creek Wisconsin facility. Samples and groundwater elevation information were collected on March 25 and September 20, 2011 in accordance the October 19, 2006 Hydrogeologic Evaluation Work Plan (Plan). Analytical data for the September sampling event was issued in January 2012, delaying the final issuance of this letter report.

PPG began free product removal from Monitoring Well TF-3 on March 13, 2009. A summary table that provides the date, thickness of free product, and the total volume of liquid removed from the well is provided. Please note that when the groundwater level was measured at Monitoring Well TF-3 during the sampling events on March 25, 2011 and September 20, 2011, a layer (less than 0.1 inch and approximately 3.2 inches, respectively) of free product was observed above the groundwater table; therefore, groundwater samples were not collected.

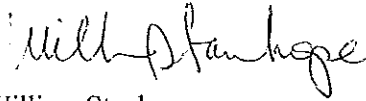
During these sampling events three issues related to sample collection and analysis were identified:

- In March a water level measurement and groundwater sample were not taken in Well MW-14 due to an ice obstruction in the well casing.
- The sample storage temperature for samples collected on March 20 was recorded out of range before analysis could be performed due to a faulty refrigerator at the laboratory. It does not appear that this nonconformance with the analytical method had any discernable effect on sample quality, since resultant sample concentrations appear consistent with previous sampling rounds.
- During the September sampling event a water level measurement and groundwater sample were not taken at Well MW-10 due to damage to the well casing (possibly struck by vehicle).

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If you have questions regarding this submittal, please contact me at 412-858-1548.

Sincerely,



William Stanhope
Project Manager

WS/bam
Enclosures

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**BTEX Analytical Results in Groundwater
May 2002 through March 2011
PPG Industries, Inc., Oak Creek, Wisconsin**

Well ID	Sample Date	Constituent (ug/L)			
		Benzene 5.0	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000
LW-2	5/2/02	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/04	ND (5)	ND (5)	ND (5)	ND (5)
	1/31/05	ND (5)	ND (5)	ND (5)	ND (5)
	7/5/05	ND (5)	ND (5)	ND (5)	ND (5)
	1/23/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/06	ND (0.4)	0.4 J	ND (5)	2.2 J
	11/16/06	ND (0.4)	0.39 J	0.36 J	3.0 J
	2/21/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	12/13/07	ND (0.4)	0.33 J	ND (5)	1.3 J
	3/27/08	ND (0.4)	ND (5)	0.78 J	ND (5)
	6/26/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/23/09	ND (0.4)	ND (5)	ND (5)	ND (5)
3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
LW-6	5/1/02	ND (0.4)	0.44	ND (5)	0.74
	7/26/04	ND (5)	ND (5)	ND (5)	ND (5)
	1/31/05	ND (5)	ND (5)	ND (5)	ND (5)
	7/5/05	ND (5)	ND (5)	ND (5)	ND (5)
	1/23/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/06	ND (0.4)	ND (5)	0.36 J	0.67 J
	11/16/06	ND (0.4)	0.5 J	ND (5)	0.84 J
	2/21/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	0.31 J	ND (5)	0.65 J
	12/13/07	ND (0.4)	ND (5)	0.33 J	0.51 J
	3/27/08	ND (0.4)	ND (5)	ND (5)	0.66 J
	6/26/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09	ND (0.4)	ND (5)	ND (5)	0.59 J
	9/23/09	ND (0.4)	0.38J	ND (5)	0.81J
3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
LW-5	5/1/02	0.48	160	ND (5)	180
	7/26/04	0.49	99.7	ND (5)	6.27
	1/31/05	0.54	36.8	ND (5)	0.878
	7/5/05	0.314	13.8	ND (5)	1.52
	1/23/06	0.39	0.51	ND (5)	ND (5)
	7/26/06	0.39 J	1.9 J	0.33 J	1.1 J
	11/16/06	0.36 J	66	ND (5)	7.6
	2/21/07	0.23 J	120	ND (5)	5.7
	7/18/07	0.13 J	5.3	ND (5)	2.0 J
	9/25/07	0.26 J	3.4 J	ND (5)	0.87 J
	12/13/07	0.23 J	2.1 J	0.29 J	0.91 J
	3/27/08	ND (0.4)	0.27 J	0.47 J	0.89 J
	6/26/08	ND (0.4)	1.1 J	ND (5)	ND (5)
	9/24/08	ND (0.4)	0.4J	ND (5)	ND (5)
	3/27/09	0.15 J	0.31 J	ND (5)	0.80 J
	9/23/09	0.13J	ND (5)	ND (5)	ND (5)
3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/14/10	0.3 J	0.91 J	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	0.54	1.1 J	ND (5)	2.2 J	

**BTEX Analytical Results in Groundwater
May 2002 through March 2011
PPG Industries, Inc., Oak Creek, Wisconsin**

Well ID	Sample Date	Constituent (ug/L)			
		Benzene 5.0	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000
TF-1	5/1/02	0.5	0.82	ND (5)	1.2
	7/26/04	0.37	ND (5)	ND (5)	ND (5)
	1/31/05	ND (5)	ND (5)	ND (5)	ND (5)
	7/5/05	ND (5)	ND (5)	ND (5)	ND (5)
	1/23/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/06	ND (0.4)	1.3 J	ND (5)	4.3 J
	11/16/06	3.8	39	3.0 J	16
	2/21/07	5.9	750	0.85 J	58
	7/18/07	2.4	220	6.7 J	110
	9/25/07	0.9	23	0.56 J	9.5
	12/13/07	2.1	180	0.91 J	120
	3/27/08	2.3	95	1.1 J	53
	6/26/08	1.6	6.3	0.99 J	10
	9/24/08	1.8	1.7 J	ND (5)	3.6 J
	3/27/09	3.1	9.3	0.7 J	11
	9/23/09	3	5.9	1.9 J	17
3/10/10	5.5	29	1.1 J	19	
9/14/10	3.4	0.75 J	ND (5)	ND (5)	
3/25/11	1.5	13	2.2 J	5.5	
9/20/11	1.7	ND (5)	ND (5)	ND (5)	
TF-2	5/1/02	NS	NS	NS	NS
	7/26/04	0.876	647	ND (5)	2,160
	1/31/05	0.589	74	ND (5)	ND (5)
	7/5/05	0.805	1.45	ND (5)	ND (5)
	1/23/06	0.95	37	ND (5)	0.58
	7/26/06	0.61	44	ND (5)	95
	11/16/06	0.45	1,100	0.41 J	89
	2/21/07	ND (2)	340	ND (25)	700
	7/18/07	ND (2)	350	ND (25)	2,700
	9/25/07	ND (4)	88	ND (50)	1,100
	12/13/07	0.81	79	0.5 J	210
	3/27/08	2.1	880	5.2	2,600
	6/26/08	2.2	500 J	2.9 J	3,900
	9/24/08	1.9 J	300	ND (50)	1,700
	3/27/09	4.7	800	3.0 J	3,400
	9/23/09	5.5	170	1.0 J	250
3/10/10	2.9	85	ND (5)	200	
9/14/10	0.8	30	0.34 J	120	
3/25/11	0.33 J	130	2.6	1,000	
9/20/11	1.4	28	ND (10)	420	
TF-3	5/1/02	2	190	280	1,300
	7/26/04	2.39	207	190	2,190
	1/31/05	4.62	178	256	3,890
	7/5/05	6.13	227	384	3,680
	1/23/06	1.60	99	32	570
	7/26/06	6.10	600	920	5,100
	11/16/06	7.3	1,200	290	5,500
	2/21/07	27	1,900	1,500	11,000
	7/18/07	51	4,100	9,000	45,000
	9/25/07	57 J	3,400	5,100	28,000
	12/13/07	38 J	2,800	1,900	15,000
	3/27/08	45 J	3,400	6,800	32,000
	6/26/08	88	6,300	15,000	78,000
	9/24/08	FREE PRODUCT IN MONITORING WELL			
	3/27/09	FREE PRODUCT IN MONITORING WELL			
	9/23/09	FREE PRODUCT IN MONITORING WELL			
3/10/10	ND (200)	2,300 J	4,200	21,000	
9/14/10	26 J	2,200	2,400	15,000	
3/25/11	FREE PRODUCT IN MONITORING WELL				
9/20/11	FREE PRODUCT IN MONITORING WELL				

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May 2002 through March 2011
PPG Industries, Inc., Oak Creek, Wisconsin**

Well ID	Sample Date	Constituent (ug/L)			
		Benzene 5.0	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000
MW-10	5/1/02	NS	NS	NS	NS
	7/26/04	NS	NS	NS	NS
	1/31/05	NS	NS	NS	NS
	7/5/05	NS	NS	NS	NS
	1/23/06	NS	NS	NS	NS
	7/26/06	ND (0.4)	ND (5)	ND (5)	0.64 J
	11/16/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	2/21/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	12/13/07	ND (0.4)	ND (5)	0.65 J	3.9 J
	3/27/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	6/26/08	ND (0.4)	ND (5)	0.83 J	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09 (1)	160	1.6 J	15	3.0 J
	4/30/09	0.18 J	ND (5)	ND (5)	ND (5)
	9/23/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)
9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	WELL DAMAGED - SAMPLE NOT COLLECTED				
MW-11	5/1/02	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/04	ND (5)	ND (5)	ND (5)	ND (5)
	1/31/05	ND (5)	ND (5)	ND (5)	ND (5)
	7/5/05	ND (5)	ND (5)	ND (5)	ND (5)
	1/23/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	11/16/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	2/21/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	12/13/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/08	ND (0.4)	ND (5)	0.67 J	ND (5)
	6/26/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09 (1)	0.4	ND (5)	ND (5)	ND (5)
	4/30/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/23/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/10/10	WELL DAMAGED - SAMPLE NOT COLLECTED			
9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	ND (0.4)	ND (5)	ND (5)	ND (5)	

**BTEX Analytical Results in Groundwater
May 2002 through March 2011
PPG Industries, Inc., Oak Creek, Wisconsin**

Well ID	Sample Date	Constituent (ug/L)			
		Benzene 5.0	Ethylbenzene 700	Toluene 1,000	Xylenes (Total) 10,000
MW-12	5/1/02	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/04	ND (5)	ND (5)	ND (5)	ND (5)
	1/31/05	ND (5)	ND (5)	ND (5)	ND (5)
	7/5/05	ND (5)	ND (5)	ND (5)	ND (5)
	1/23/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/26/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	11/16/06	ND (0.4)	ND (5)	ND (5)	ND (5)
	2/21/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	12/13/07	ND (0.4)	ND (5)	0.26 J	0.84 J
	3/27/08	ND (0.4)	ND (5)	0.57 J	ND (5)
	6/26/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09 (1)	0.23 J	ND (5)	ND (5)	ND (5)
	4/30/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/23/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)
9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)	
3/25/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
9/20/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
MW-14	7/18/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/25/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	12/13/07	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/08	ND (0.4)	ND (5)	0.61 J	ND (5)
	6/26/08	ND (0.4)	ND (5)	0.80 J	ND (5)
	9/24/08	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/27/09 (1)	0.29 J	ND (5)	ND (5)	ND (5)
	4/30/09	2.1	ND (5)	ND (5)	ND (5)
	9/23/09	ND (0.4)	ND (5)	ND (5)	ND (5)
	3/10/10	ND (0.4)	ND (5)	ND (5)	ND (5)
	9/14/10	ND (0.4)	ND (5)	ND (5)	ND (5)
3/25/11	SAMPLE NOT COLLECTED - ICE BLOCKAGE				
9/20/11	ND (0.4)	ND (5)	ND (5)	ND (5)	
Notes:					
Concentrations are in micrograms per liter (ug/L)					
MCL = Maximum Contaminant Level					
ND (5) = Not detected at the detection limit in parentheses					
NS = Not sampled - Well not part of monitoring network at this time.					
(1) March 2009 samples were re-sampled in April 2009.					

Groundwater Elevations July 2004 through September 2010
Based on January 2006 Re-Survey
PPG Industries, Inc., Oak Creek, Wisconsin

Monitoring Well ID	Ground Elevation (msl)	TOC Elevation* (msl)	July 2004		January 2005		July 2005		January 2006	
			Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation
LP-2**	696.83	697.79	NM	---	NM	---	NM	---	14.55	683.24
LP-3	695.84	696.18	NM	---	NM	---	NM	---	12.77	683.41
LW-2	697.34	698.62	12.75	685.87	13.76	684.86	14.33	684.29	12.87	685.75
LW-3	695.76	696.39	NM	---	NM	---	NM	---	12.7	683.69
LW-5	695.79	698.40	15.54	682.86	15.49	682.91	15.62	682.78	15.75	682.65
LW-6	695.61	698.19	14.06	684.13	14.49	683.7	14.13	684.06	14.26	683.93
MW-10	693.18	696.43	Well Damaged; Not Measured							
MW-11	689.20	692.20	6.47	685.13	6.87	684.73	8.0	683.6	5.4	686.2
MW-12	685.60	687.92	7.03	680.89	6.41	681.51	9.74	678.18	5.44	682.48
MW-13	683.80	686.35	NM	---	NM	---	NM	---	NM	---
MW-14	694.30	693.70	NM	---	NM	---	NM	---	NM	---
MW-15**	696.30	698.97	NM	---	NM	---	NM	---	13.05	685.92
MW-16	696.30	698.36	NM	---	NM	---	NM	---	NM	---
TF-1	697.53	699.31	15.84	683.47	15.98	683.33	15.9	683.41	15.97	683.34
TF-2	696.82	698.00	17.05	680.95	17.14	680.86	17.05	680.95	17.07	680.93
TF-3	697.61	699.64	18.00	681.64	18.13	681.51	18.01	681.63	18.10	681.54
TF-4	697.52	699.18	NM	---	NM	---	NM	---	16.12	683.06

Notes:

TOC = top of casing

BOW = bottom of well

NM = not measured

* = MW-11 TOC elevation re-surveyed September 2010 after repair to well casing.

Previous TOC = 689.9, re-surveyed TOC = 692.2.

All groundwater elevations prior to September 2010 are based on the previous survey.

** = Deep Monitoring Well - not used for groundwater contours.

Groundwater Elevations July 2004 through September 2010
Based on January 2006 Re-Survey
PPG Industries, Inc., Oak Creek, Wisconsin

Monitoring Well ID	Ground Elevation (msl)	TOC Elevation* (msl)	July 2006		November 2006		February 2007		July 2007	
			Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation
LP-2**	696.83	697.79	14.4	683.39	11.77	686.02	9.87	687.92	NM	---
LP-3	695.84	696.18	12.11	684.07	9.94	686.24	9.87	686.31	NM	---
LW-2	697.34	698.62	11.64	686.98	11.26	687.36	10.41	688.21	9.43	689.19
LW-3	695.76	696.39	12.4	683.99	11.67	684.72	7.62	688.77	NM	---
LW-5	695.79	698.40	15.75	682.65	12.89	685.51	9.91	688.49	9.69	688.71
LW-6	695.61	698.19	13.88	684.31	12.66	685.53	9.74	688.45	9.48	688.71
MW-10	693.18	696.43	9.18	687.25	9.47	686.96	11.26	685.17	10.09	686.34
MW-11	689.20	692.20	6.43	685.17	5.18	686.42	6.96	684.64	7.57	684.03
MW-12	685.60	687.92	8.31	679.61	5.49	682.43	7.40	680.52	9.02	678.9
MW-13	683.80	686.35	6.48	679.87	5.10	681.25	6.05	680.3	NM	---
MW-14	694.30	693.70	6.77	686.93	6.10	687.6	6.99	686.71	6.15	687.55
MW-15**	696.30	698.97	12.54	686.43	12.09	686.88	12.05	686.92	NM	---
MW-16	696.30	698.36	NM	---	NM	---	NM	---	NM	---
TF-1	697.53	699.31	15.9	683.41	13.75	685.56	10.60	688.71	10.54	688.77
TF-2	696.82	698.00	17.1	680.9	12.38	685.62	9.28	688.72	9.09	688.91
TF-3	697.61	699.64	18.05	681.59	14.00	685.64	10.90	688.74	10.99	688.65
TF-4	697.52	699.18	15.62	683.56	13.26	685.92	10.42	688.76	NM	---

Notes:

TOC = top of casing

BOW = bottom of well

NM = not measured

* = MW-11 TOC elevation re-surveyed September 2010 after repair to well casing.

Previous TOC = 689.9, re-surveyed TOC = 692.2.

All groundwater elevations prior to September 2010 are based on the previous survey.

** = Deep Monitoring Well - not used for groundwater contours.

Groundwater Elevations July 2004 through September 2010
Based on January 2006 Re-Survey
PPG Industries, Inc., Oak Creek, Wisconsin

Monitoring Well ID	Ground Elevation (msl)	TOC Elevation* (msl)	September 2007		December 2007		March 2008		June 2008		September 2008	
			Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation
LP-2**	696.83	697.79	9.24	688.55	9.35	688.44	8.57	689.22	9.09	688.7	9.05	688.74
LP-3	695.84	696.18	8.84	687.34	8.95	687.23	8.83	687.35	8.78	687.4	8.72	687.46
LW-2	697.34	698.62	9.61	689.01	10.08	688.54	9.24	689.38	9.19	689.43	9.43	689.19
LW-3	695.76	696.39	7.46	688.93	7.41	688.98	6.62	689.77	7.28	689.11	7.31	689.08
LW-5	695.79	698.40	9.68	688.72	9.59	688.81	8.35	690.05	9.21	689.19	9.27	689.13
LW-6	695.61	698.19	9.52	688.67	9.38	688.81	8.20	689.99	9.00	689.19	9.05	689.14
MW-10	693.18	696.43	9.44	686.99	10.52	685.91	8.22	688.21	9.50	686.93	9.48	686.95
MW-11	689.20	692.20	6.87	684.73	4.65	686.95	2.63	688.97	6.73	684.87	6.38	685.22
MW-12	685.60	687.92	7.62	680.3	6.97	680.95	2.70	685.22	7.18	680.74	8.41	679.51
MW-13	683.80	686.35	6.38	679.97	4.43	681.92	2.64	683.71	6.43	679.92	6.07	680.28
MW-14	694.30	693.70	6.96	686.74	5.91	687.79	5.51	688.19	5.66	688.04	5.81	687.89
MW-15**	696.30	698.97	10.82	688.15	11.24	687.73	10.86	688.11	10.44	688.53	10.53	688.44
MW-16	696.30	698.36	7.64	690.72	7.25	691.11	6.26	692.1	6.88	691.48	6.67	691.69
TF-1	697.53	699.31	10.53	688.78	10.50	688.81	9.44	689.87	10.30	689.01	10.31	689.00
TF-2	696.82	698.00	8.97	689.03	8.90	689.1	7.48	690.52	8.43	689.57	8.61	689.39
TF-3	697.61	699.64	NM	---	NM	---	10.19	689.45	11.62	688.02	11.2	688.44
TF-4	697.52	699.18	10.01	689.17	10.10	689.08	8.30	690.88	9.54	689.64	9.63	689.55

Notes:

TOC = top of casing

BOW = bottom of well

NM = not measured

* = MW-11 TOC elevation re-surveyed September 2010 after repair to well casing.

Previous TOC = 689.9, re-surveyed TOC = 692.2.

All groundwater elevations prior to September 2010 are based on the previous survey.

** = Deep Monitoring Well - not used for groundwater contours.

Groundwater Elevations July 2004 through September 2010
Based on January 2006 Re-Survey
PPG Industries, Inc., Oak Creek, Wisconsin

Monitoring Well ID	Ground Elevation (msl)	TOC Elevation* (msl)	March 2009		September 2009		March 2010		September 2010	
			Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation
LP-2**	696.83	697.79	9.20	688.59	8.22	689.57	7.25	690.54	8.54	689.25
LP-3	695.84	696.18	8.96	687.22	8.29	687.89	7.53	688.65	8.39	687.79
LW-2	697.34	698.62	9.62	689	8.79	689.83	7.96	690.66	9.12	689.50
LW-3	695.76	696.39	7.23	689.16	5.90	690.49	3.99	692.40	7.00	689.39
LW-5	695.79	698.40	9.18	689.22	8.52	689.88	6.91	691.49	8.97	689.43
LW-6	695.61	698.19	9.14	689.05	8.33	689.86	6.76	691.43	8.66	689.53
MW-10	693.18	696.43	10.18	686.25	9.85	686.58	4.98	691.45	9.07	687.36
MW-11	689.20	692.20	5.25	686.35	6.90	684.7	3.42	688.18	6.99	685.21
MW-12	685.60	687.92	5.09	682.83	8.43	679.49	2.94	684.98	8.01	679.91
MW-13	683.80	686.35	4.97	681.38	6.52	679.83	2.56	683.79	6.74	679.61
MW-14	694.30	693.70	6.09	687.61	5.81	687.89	5.14	688.56	5.38	688.32
MW-15**	696.30	698.97	11.03	687.94	10.65	688.32	10.51	688.46	10.17	688.80
MW-16	696.30	698.36	7.13	691.23	6.97	691.39	6.97	691.39	6.91	691.45
TF-1	697.53	699.31	10.18	689.13	8.98	690.33	6.89	692.42	9.21	690.10
TF-2	696.82	698.00	8.45	689.55	7.80	690.2	5.66	692.34	8.11	689.89
TF-3	697.61	699.64	10.70	688.94	9.26	690.38	6.85	692.79	10.38	689.26
TF-4	697.52	699.18	9.58	689.60	8.87	690.31	7.15	692.03	9.40	689.78

Notes:

TOC = top of casing

BOW = bottom of well

NM = not measured

* = MW-11 TOC elevation re-surveyed September 2010 after repair to well casing.

Previous TOC = 689.9, re-surveyed TOC = 692.2.

All groundwater elevations prior to September 2010 are based on the previous survey.

** = Deep Monitoring Well - not used for groundwater contours.

Groundwater Elevations July 2004 through September 2010
Based on January 2006 Re-Survey
PPG Industries, Inc., Oak Creek, Wisconsin

Monitoring Well ID	Ground Elevation (msl)	TOC Elevation* (msl)	March 2011		September 2011	
			Depth to Water (TOC)	Ground-water Elevation	Depth to Water (TOC)	Ground-water Elevation
LP-2**	696.83	697.79	7.92	689.87	9.06	688.73
LP-3	695.84	696.18	8.39	687.79	8.89	687.29
LW-2	697.34	698.62	8.76	689.86	9.72	688.90
LW-3	695.76	696.39	6.59	689.80	7.31	689.08
LW-5	695.79	698.40	7.81	690.59	9.47	688.93
LW-6	695.61	698.19	7.61	690.58	9.25	688.94
MW-10	693.18	696.43	8.45	687.98	NM	NM
MW-11	689.20	692.20	4.14	688.06	8.15	684.05
MW-12	685.60	687.92	3.33	684.59	9.53	678.39
MW-13	683.80	686.35	3.48	682.87	8.80	677.55
MW-14	694.30	693.70	NM	NM	6.07	687.63
MW-15**	696.30	698.97	10.62	688.35	11.41	687.56
MW-16	696.30	698.36	6.42	691.94	7.98	690.38
TF-1	697.53	699.31	9.02	690.29	10.15	689.16
TF-2	696.82	698.00	7.09	690.91	8.83	689.17
TF-3	697.61	699.64	9.80	689.84	10.85	688.79
TF-4	697.52	699.18	8.27	690.91	9.85	689.33

Notes:

TOC = top of casing

BOW = bottom of well

NM = not measured

* = MW-11 TOC elevation re-surveyed September 2010 after repair to well casing.

Previous TOC = 689.9, re-surveyed TOC = 692.2.

All groundwater elevations prior to September 2010 are based on the previous survey.

** = Deep Monitoring Well - not used for groundwater contours.

TF-3 Free Product Removal Summary
PPG Industries, Inc., Oak Creek, Wisconsin

Date	Depth to Free Product (feet)	Depth to Groundwater (feet)	Free Product Thickness (feet)	Approximate Volume of Liquid Removed (gallons)	Approximate Cumulative Volume of Liquid Removed (gallons)
3/13/2009	10.15	10.19	0.04	10.0	10
3/16/2009	10.25	10.43	0.18	10.0	20
3/23/2009	10.40	10.80	0.40	10.0	30
3/27/2009	10.55	10.70	0.15	8.0	38
4/3/2009	10.10	10.28	0.18	7.0	45
4/15/2009	10.54	11.08	0.54	8.0	53
4/17/2009	10.66	10.75	0.09	8.0	61
4/21/2009	9.80	9.80	0.00	0.0	61
4/26/2009	8.86	8.87	0.01	8.0	69
5/6/2009	10.22	10.99	0.77	8.0	77
5/11/2009	10.25	10.48	0.23	8.0	85
5/20/2009	10.41	10.63	0.22	8.0	93
5/28/2009	10.00	10.15	0.15	8.0	101
6/4/2009	10.60	10.76	0.16	8.0	109
6/10/2009	9.78	9.80	0.02	8.0	117
6/18/2009	10.31	10.40	0.09	8.0	125
6/25/2009	9.98	10.09	0.11	0.0	125
7/7/2009	10.52	11.00	0.48	5.0	130
7/17/2009	10.20	10.56	0.36	4.0	134
7/23/2009	10.66	10.73	0.07	0.0	134
7/30/2009	10.76	10.84	0.08	0.0	134
8/6/2009	10.83	11.05	0.22	4.0	138
8/13/2009	9.95	9.96	0.01	0.0	138
8/20/2009	9.09	9.19	0.10	0.0	138
8/27/2009	8.19	8.21	0.02	0.0	138
9/3/2009	9.45	9.48	0.03	0.0	138
9/16/2009	9.98	10.30	0.32	4.0	142
9/23/2009	9.20	9.20	0.00	0.0	142
10/8/2009	8.92	8.93	0.01	0.0	142
10/15/2009	9.10	9.11	0.01	0.0	142
10/22/2009	8.32	8.33	0.01	0.0	142
10/29/2009	7.71	7.71	0.00	0.0	142
11/13/2009	7.80	7.80	0.00	0.0	142
11/19/2009	7.45	7.45	0.00	0.0	142
12/3/2009	8.91	8.92	0.01	0.0	142
12/11/2009	8.15	8.16	0.01	0.0	142
12/17/2009	9.15	9.18	0.03	0.0	142
1/7/2010	8.90	8.93	0.03	0.0	142
1/15/2010	9.12	9.20	0.08	0.0	142
1/21/2010	9.40	9.55	0.15	0.0	142
2/2/2010	9.05	9.06	0.01	0.0	142
2/11/2010	9.14	9.20	0.06	0.0	142
2/25/2010	8.75	8.81	0.06	0.0	142

TF-3 Free Product Removal Summary
PPG Industries, Inc., Oak Creek, Wisconsin

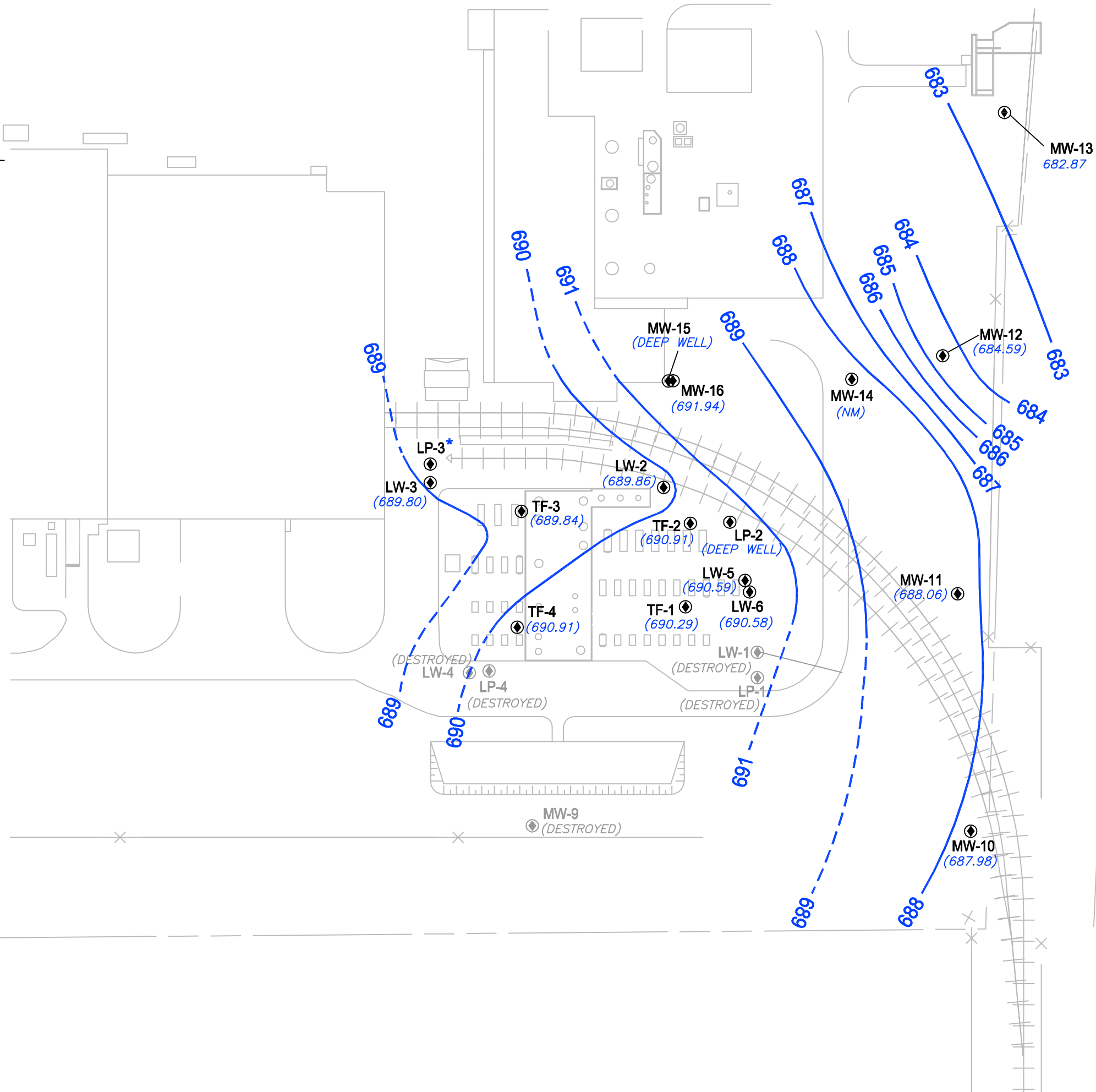
Date	Depth to Free Product (feet)	Depth to Groundwater (feet)	Free Product Thickness (feet)	Approximate Volume of Liquid Removed (gallons)	Approximate Cumulative Volume of Liquid Removed (gallons)
3/4/2010	9.00	9.09	0.09	2.0	144
3/10/2010	<i>See Note 1</i>	6.85	0.00	0.0	144
3/19/2010	7.93	7.94	0.01	0.0	144
3/31/2010	9.10	9.20	0.10	0.0	144
4/9/2010	7.26	7.29	0.03	0.0	144
4/15/2010	8.54	8.58	0.04	0.0	144
4/22/2010	10.46	10.79	0.33	3.0	147
4/30/2010	10.40	10.57	0.17	2.0	149
5/5/2010	10.58	10.70	0.12	0.0	149
5/18/2010	10.15	10.22	0.07	0.0	149
5/27/2010	10.48	10.86	0.38	2.0	151
6/9/2010	9.47	9.55	0.08	0.0	151
6/17/2010	10.37	10.71	0.34	3.0	154
7/14/2010	10.30	10.80	0.50	2.0	156
7/29/2010	9.95	10.36	0.41	3.0	159
8/13/2010	10.19	11.04	0.85	3.0	162
8/26/2010	10.45	10.66	0.21	2.0	164
9/8/2010	10.45	10.53	0.08	0.0	164
9/14/2010	10.36	10.38	0.02	0.0	164
9/16/2010	10.46	10.48	0.02	0.0	164
9/29/2010	10.06	10.16	0.10	0.0	164
10/14/2010	10.85	10.96	0.11	0.0	164
10/28/2010	10.32	10.33	0.01	0.0	164
11/11/2010	10.90	10.92	0.02	0.0	164
11/23/2010	9.90	9.90	0.00	0.0	164
12/10/2010	10.85	10.85	0.00	0.0	164
12/29/2010	10.85	10.85	0.00	0.0	164
1/12/2011	10.93	11.02	0.09	0.0	164
1/28/2011	10.85	10.94	0.09	0.0	164
2/17/2011	9.64	9.64	0.00	0.0	164
2/24/2011	10.17	10.23	0.06	0.00	164
3/7/2011	9.58	9.78	0.20	0.00	164
3/14/2011	9.69	10.22	0.53	2.00	166
3/25/2011	9.73	9.80	0.07	3.00	169
4/7/2011	10.16	10.16	0.00	0.00	169
4/21/2011	9.86	10.00	0.14	0.00	169
5/5/2011	10.14	11.15	1.01	0.00	169
5/13/2011	10.30	11.25	0.95	3.00	172
5/27/2011	9.90	10.00	0.10	0.00	172
6/1/2011	10.35	10.60	0.25	0.00	172
6/10/2011	9.90	10.30	0.40	0.00	172
6/20/2011	10.50	11.30	0.80	4.00	176

TF-3 Free Product Removal Summary
PPG Industries, Inc., Oak Creek, Wisconsin

Date	Depth to Free Product (feet)	Depth to Groundwater (feet)	Free Product Thickness (feet)	Approximate Volume of Liquid Removed (gallons)	Approximate Cumulative Volume of Liquid Removed (gallons)
<i>7/6/2011</i>	10.50	10.75	0.25	0.00	176
<i>7/15/2011</i>	10.45	10.75	0.30	0.00	176
<i>7/22/2011</i>	8.55	8.60	0.05	0.00	176
<i>8/2/2011</i>	10.25	10.35	0.10	0.00	176
<i>8/10/2011</i>	10.50	10.60	0.10	0.00	176
<i>8/15/2011</i>	10.50	10.80	0.30	0.00	176
<i>8/23/2011</i>	10.60	10.85	0.25	0.00	176
<i>9/1/2011</i>	10.60	10.65	0.05	0.00	176
<i>9/8/2011</i>	10.65	10.75	0.10	0.00	176
<i>9/16/2011</i>	10.80	10.90	0.10	0.00	176
<i>9/20/2011</i>	<i>10.58</i>	<i>10.85</i>	0.27	<i>5.00</i>	181

1. No measureable product detected.

Entries in italic font indicate dates of groundwater sampling events



LEGEND:

- MONITORING WELL LOCATIONS
- GROUNDWATER ELEVATION (MSL)
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- DIRECTION OF GROUNDWATER FLOW

- NOTES:**
1. WATER ELEVATIONS WERE GAUGED AT SOME DEEP WELLS BUT THE GROUND-WATER ELEVATIONS ARE NOT PROVIDED ON THE MAP BECAUSE THESE DATA ARE NOT USED FOR CONTOURING.
 2. BASED ON WATER LEVELS MEASURED MARCH 25, 2011.
 3. DEEP WELLS (MW-15 AND LP-2) NOT USED FOR CONTOURING PURPOSES.
 4. * LP-3 NOT USED FOR CONTOURING PURPOSES SINCE IT IS SCREENED FROM 30-35'.
 5. MW-14 NOT MEASURED (NM) DUE TO ICE DESTRUCTION IN WELL CASING.

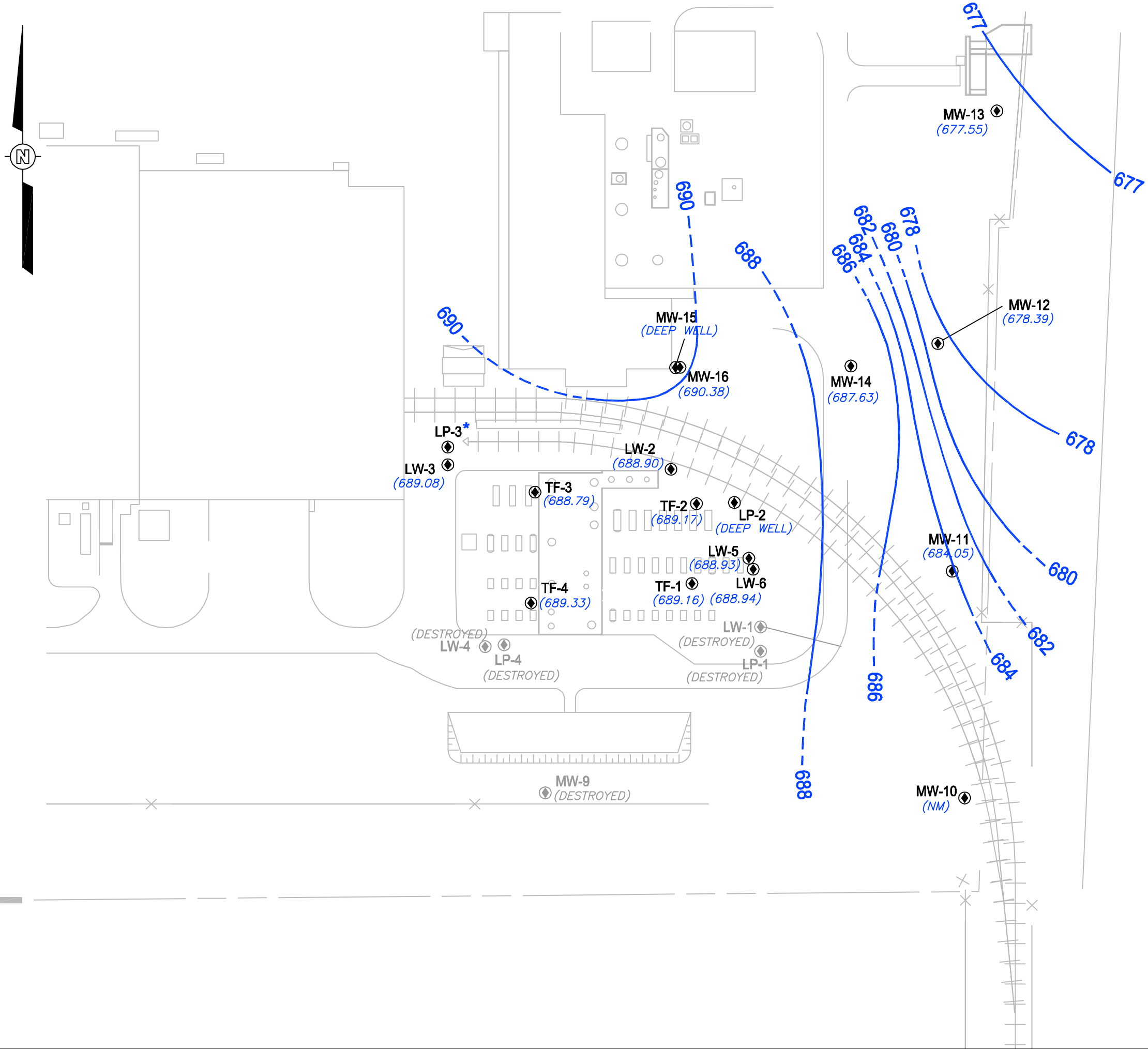


PPG INDUSTRIES, INC.
OAK CREEK, WISCONSIN

FIGURE 1
GROUNDWATER ELEVATION MAP
MARCH 25, 2011
HYDROGEOLOGIC EVALUATION
OAK CREEK, WISCONSIN

O:\Project\PPG\119637\119637B16.dwg
 Plot Date/Time: 06/16/09 01:51pm
 Plotted by: bernadette.oconnor

OFFICE: Pittsburgh, PA
 DRAWN BY: B. Faison
 CHECKED BY: s. Furlong
 APPROVED BY: [Signature]
 DRAWING NUMBER: 119637-B20



LEGEND:

- MONITORING WELL LOCATIONS
- (681.92) GROUNDWATER ELEVATION (MSL)
- 677 GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- DIRECTION OF GROUNDWATER FLOW
- (NM) NOT MEASURED

- NOTES:**
1. WATER ELEVATIONS WERE GAUGED AT SOME DEEP WELLS BUT THE GROUND-WATER ELEVATIONS ARE NOT PROVIDED ON THE MAP BECAUSE THESE DATA ARE NOT USED FOR CONTOURING.
 2. BASED ON WATER LEVELS MEASURED SEPTEMBER 20, 2011.
 3. DEEP WELLS (MW-15 AND LP-2) NOT USED FOR CONTOURING PURPOSES.
 4. * LP-3 NOT USED FOR CONTOURING PURPOSES SINCE IT IS SCREENED FROM 30-35'.
 5. MW-10 NOT MEASURED (NM) DUE TO DAMAGE TO THE WELL CASING.



PPG INDUSTRIES, INC.
 OAK CREEK, WISCONSIN

FIGURE 1
GROUNDWATER ELEVATION MAP
 SEPTEMBER 20, 2011
 HYDROGEOLOGIC EVALUATION
 OAK CREEK, WISCONSIN