GROUNDWATER ANALYTICAL KEY

MW-1	
	11/06/08
Benzo(a)pyrene	4.3 µg/L
Benzo(b)fluoranthene	5.8 µg/L
Chrysene	4.5 µg/L

= GROUNDWATER ANALYTICAL RESULTS (ONLY CONCENTRATIONS FOR COMPOUNDS THAT EXCEEDED NR 140 ES'S ON ONE OR MORE DATE ARE PRESENTED)

µg/L = MICROGRAMS PER LITER (EQUIVALENT TO PARTS PER BILLION)

BOLD = ES EXCEEDENCES

-- = COMPOUND NOT ANALYZED

(none) = NO ANALYTES IN GROUP EXCEED ES

NR 140 ES = WISCONSIN ADMINISTRATIVE CODE, CH. NR 140 ENFORCEMENT STANDARD

MW-1							MW-1R		
Sample Collection Date:		11/06/08	06/22/09	02/10/10	03/11/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	none	none	
PAHs									
Benzo(a)pyrene	µg/L	**4.3**	**1.05**	- -	**0.26**	NA	**2.2**	<0.018	
Benzo(b)fluoranthene	µg/L	**5.8**	**1.38**	- -	**0.37**	NA	**3.6**	<0.02	
Chrysene	µg/L	**4.5**	**0.92**	- -	**0.22**	**NA**	**1.53**	<0.018	
RCRA METALs	µg/L	none	none	none	none	none	none	none	
Arsenic	µg/L								

TW-4				
Sample Collection Date:		11/06/08	06/22/09	06/11/10
VOCs		none	none	none
PAHs		NA	NA	none
RCRA METALs	µg/L	none	NA	none

MW-6							
Sample Collection Date:		10/27/09	02/10/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	
PAHs		none	none	none	none	none	
RCRA METALs		none	none	none	none	none	

MW-12				
Sample Collection Date:		02/01/13	05/02/13	08/30/13
VOCs	µg/L	none	none	
PAHs	µg/L	none	none	
RCRA METALs	µg/L	none	none	

MW-2				MW-2R	
Sample Collection Date:		11/06/08	06/22/09	05/02/13	08/30/13
VOCs		none	none	none	
PAHs					
Benzo(a)pyrene	µg/L	<0.16	<0.014	**0.41**	
Benzo(b)fluoranthene	µg/L	0.015	<0.018	**0.52**	
Chrysene	µg/L	<0.02	<0.011	**0.46**	
RCRA METALs	µg/L	none	none	none	

MW-3								
Sample Collection Date:		11/06/08	06/22/09	02/10/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	none	
PAHs		none	none	none	none	none	none	
RCRA METALs	µg/L	none	none	none	none	none	none	
Arsenic	µg/L	0.80 j	<0.6	<0.6	<0.6	**10**	<0.6	

MW-14			
Sample Collection Date:		05/02/13	08/30/13
VOCs	µg/L	none	
PAHs	µg/L	none	
Lead	µg/L	none	

MW-7						
Sample Collection Date:		10/27/09	02/10/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	
PAHs		none	none	none	none	none	
RCRA METALs		none	none	none	none	none	

TW-7					
Sample Collection Date:		11/06/08	6/22-30/2009	03/11/10	6/11/2010
VOCs					
Benzene	µg/L	**28,700**	**4,500**	**18200**	**29700**
1,2-Dichloroethane	µg/L	**1,370**	<86	**880**	**1270**
Ethylbenzene	µg/L	**3,800**	**1,040**	**2330**	**2760**
Naphthalene	µg/L	**312**	<340	**198**	<480
Toluene	µg/L	**25,300**	**4,700**	**14700**	**21400**
Trichloroethene	µg/L	<23.5	<78	**190**	<78
Trimethylbenzenes (total)	µg/L	**2,960**	**1,460**	**2290**	**1860**
Xylenes (total)	µg/L	**13,700**	**4,090**	**9380**	**10300**
PAHs		NA	NA	NA	NA
RCRA METALs	µg/L	none	none	NA	NA

MW-10				
Sample Collection Date:		02/01/13	05/02/13	08/30/13
VOCs				
Benzene	µg/L	**7,700**	**4,700**	
Ethylbenzene	µg/L	**4,400**	**2,760**	
Naphthalene	µg/L	**520**	**274**	
Toluene	µg/L	**9,100**	**1,200**	
Trimethylbenzenes (total)	µg/L	**3,350**	**2,860**	
Xylenes (total)	µg/L	**19,400**	**8,650**	
PAHs				
Naphthalene	µg/L	**360**	**187**	
RCRA METALs	µg/L	none	none	

MW-13			
Sample Collection Date:		05/02/13	08/30/13
VOCs	µg/L	none	
PAHs	µg/L	none	
RCRA METALs	µg/L	none	

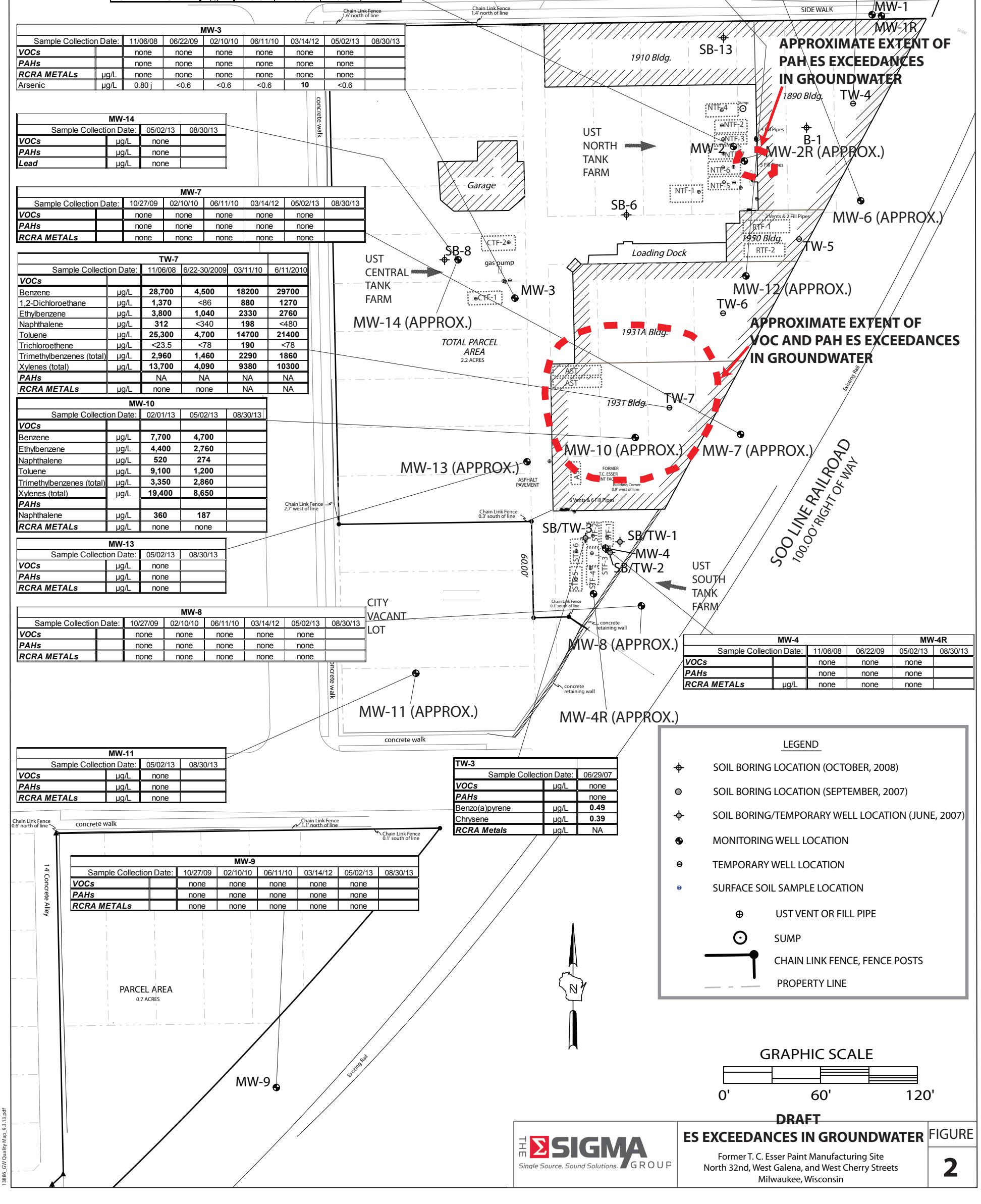
MW-8							
Sample Collection Date:		10/27/09	02/10/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	
PAHs		none	none	none	none	none	
RCRA METALs		none	none	none	none	none	

MW-4				MW-4R	
Sample Collection Date:		11/06/08	06/22/09	05/02/13	08/30/13
VOCs		none	none	none	
PAHs		none	none	none	
RCRA METALs	µg/L	none	none	none	

MW-11			
Sample Collection Date:		05/02/13	08/30/13
VOCs	µg/L	none	
PAHs	µg/L	none	
RCRA METALs	µg/L	none	

TW-3		
Sample Collection Date:		06/29/07
VOCs	µg/L	none
PAHs		none
Benzo(a)pyrene	µg/L	**0.49**
Chrysene	µg/L	**0.39**
RCRA Metals	µg/L	NA

MW-9							
Sample Collection Date:		10/27/09	02/10/10	06/11/10	03/14/12	05/02/13	08/30/13
VOCs		none	none	none	none	none	
PAHs		none	none	none	none	none	
RCRA METALs		none	none	none	none	none	



DRAFT

THE SIGMA GROUP
Single Source. Sound Solutions.

ES EXCEEDANCES IN GROUNDWATER

Former T. C. Esser Paint Manufacturing Site
North 32nd, West Galena, and West Cherry Streets
Milwaukee, Wisconsin

FIGURE
2

13886_GW Quality Map_9.3.13.pdf