Mr. Greg Michael
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, WI 53188

Arcadis U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Tel 414 276 7742
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ENVIRONMENT

Subject:

Soil Management Plan Update for the Pressed Steel Tank Co Inc Site, 1445 S 66th Street, West Allis, Wisconsin. BRRTS# 02-41-385114, FID# 241037940

Date:
November 27, 2017

Contact:
Tim Alessi

Phone:
414-276-7742

Email:
Tim.Alessi@arcadis.com

Our ref:
WI001504.0001

Dear Mr. Michael:

This submittal provides the additional figures and tables requested during our phone conversation on September 18th. These materials are a supplement to the Soil Management Plan (SMP) submitted on July 24, 2017, and the Soil Management Plan Addendum submitted on August 31, 2017 for the Pressed Steel Tank Co Inc Site (Site). The attached figures present the proposed soil movement by individual location and post current and historical soil exceedances. The attached tables are a reduction of the full tables to show only exceedances to aid in interpretation.

CLOSING

Should you have any questions, please contact us at your convenience.

Sincerely,
Arcadis U.S., Inc.

Timothy G. Alessi, PG
Project Geologist

Benjamin J. Verburg, PE
Principal Engineer

Copy:
John Stibal

Enclosures:

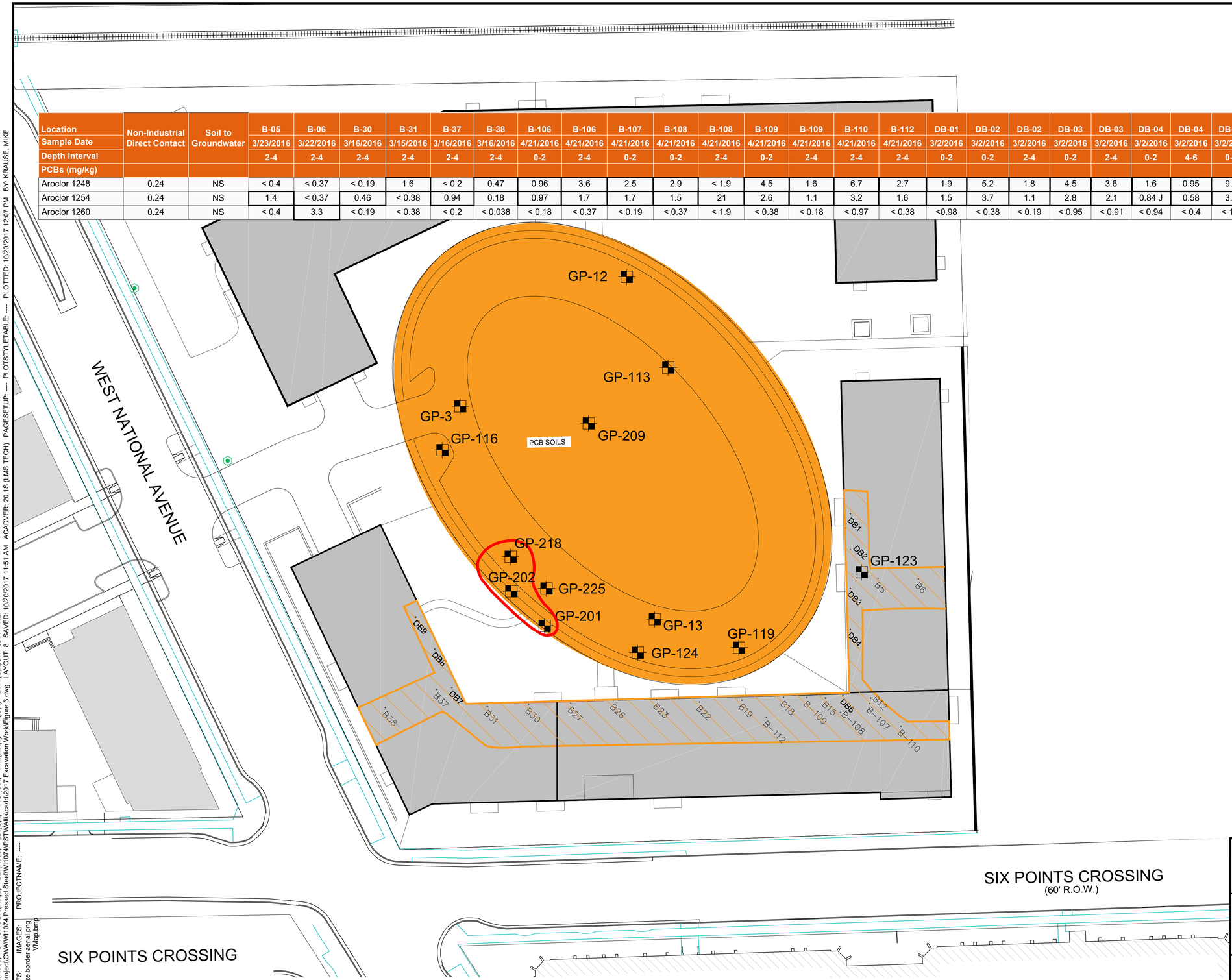
Figures

1 PCB Area Soil Placement
2 Area 1 Soil Placement
3 Area 2 Soil Placement
4 Area 3 Soil Placement
5 Area 4 Soil Placement

Tables

1 PCB Exceedances
2 VOC Exceedances
3 PAH Exceedances

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-05	B-06	B-30	B-31	B-37	B-38	B-106	B-106	B-107	B-108	B-108	B-109	B-109	B-110	B-112	DB-01	DB-02	DB-02	DB-03	DB-03	DB-04	DB-04	DB-05	DB-05	DB-05	DB-07	DB-08	DB-09
Sample Date			3/23/2016	3/22/2016	3/16/2016	3/15/2016	3/16/2016	3/16/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016
Depth Interval			2-4	2-4	2-4	2-4	2-4	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	2-4	2-4	0-2	0-2	2-4	0-2	2-4	0-2	4-6	0-2	2-4	4-6	0-2	0-2	0-2
PCBs (mg/kg)																														
Aroclor 1248	0.24	NS	< 0.4	< 0.37	< 0.19	1.6	< 0.2	0.47	0.96	3.6	2.5	2.9	< 1.9	4.5	1.6	6.7	2.7	1.9	5.2	1.8	4.5	3.6	1.6	0.95	9.5	3.4	< 0.42	0.54	3.2	5.8
Aroclor 1254	0.24	NS	1.4	< 0.37	0.46	< 0.38	0.94	0.18	0.97	1.7	1.7	1.5	21	2.6	1.1	3.2	1.6	1.5	3.7	1.1	2.8	2.1	0.84 J	0.58	3.6	1.5	1.4	0.62	2.2	3
Aroclor 1260	0.24	NS	< 0.4	3.3	< 0.19	< 0.38	< 0.2	< 0.038	< 0.18	< 0.37	< 0.19	< 0.37	< 1.9	< 0.38	< 0.18	< 0.97	< 0.38	<0.98	< 0.38	< 0.19	< 0.95	< 0.91	< 0.94	< 0.4	< 1.9	< 0.98	1.4	< 0.19	< 1.9	< 1.9



LEGEND

- PCB EXCAVATION AREA
- PCB FILL AREA
- BUILDING FOOTPRINT
- MW-201 MONITORING WELL
- GP-1 SOIL BORING/SMALL DIAMETER WELL
- EXCEEDS GW PROTECTION RCL
- EXCEEDS DIRECT CONTACT RCL
- NON-INDUSTRIAL DIRECT CONTACT EXCEEDANCE
- *ITALICS* SOIL TO GROUNDWATER EXCEEDANCE

NOTE

1. ELEVATIONS ARE IN FEET

0 30 60
SCALE IN FEET

COMMUNITY DEVELOPMENT AUTHORITY OF WEST ALLIS, WI
FORMER PRESSED STEEL PROPERTY
SIX POINTS REDEVELOPMENT

PCB AREA SOIL PLACEMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CONFIDENTIAL, ATTORNEY CLIENT PRIVILEGED

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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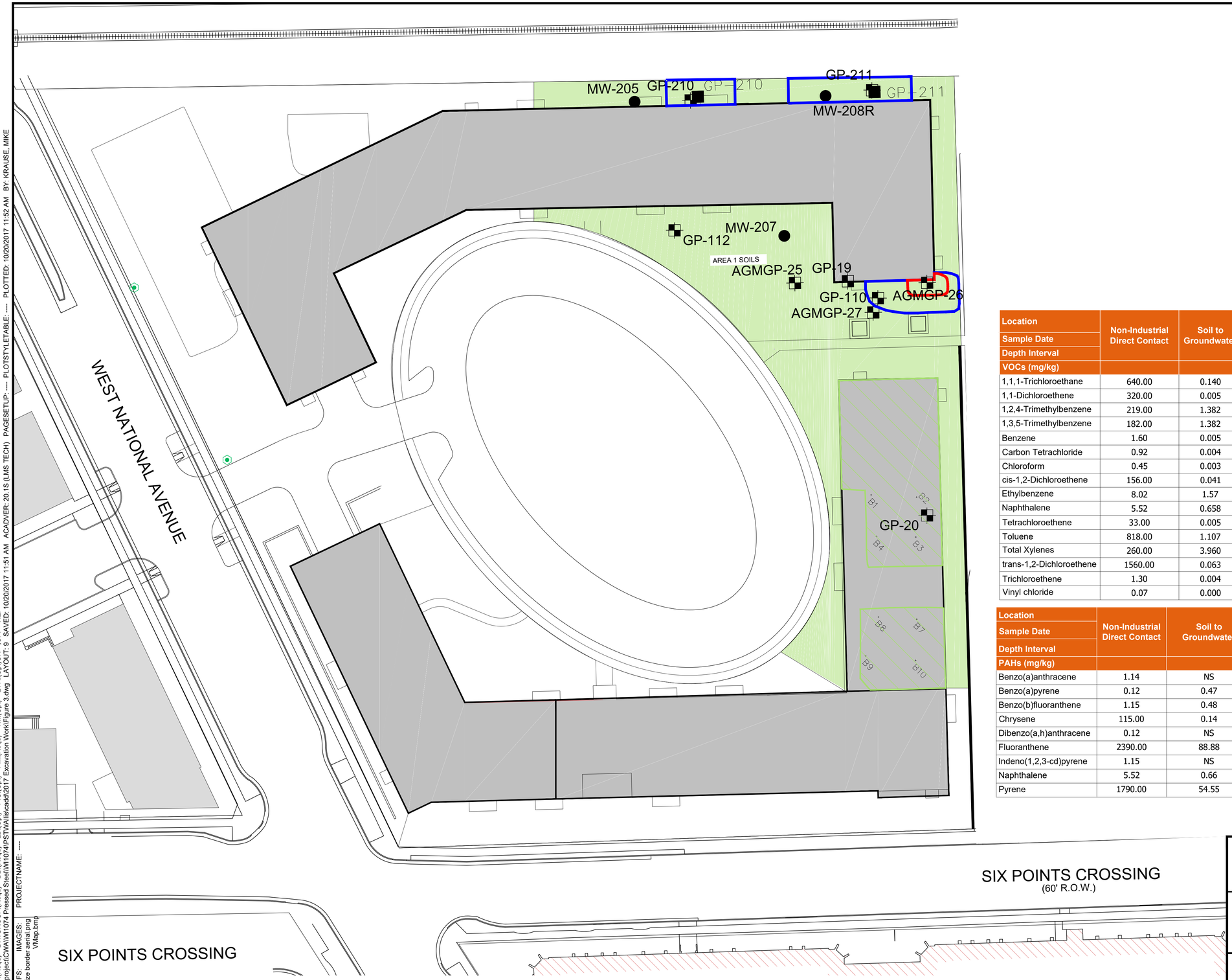

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NOTE

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SCALE IN FEET

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-10
Sample Date			3/22/2016
Depth Interval			4-6
VOCs (mg/kg)			
1,1,1-Trichloroethane	640.00	0.140	< 0.067
1,1-Dichloroethene	320.00	0.005	< 0.067
1,2,4-Trimethylbenzene	219.00	1.382	< 0.067
1,3,5-Trimethylbenzene	182.00	1.382	< 0.067
Benzene	1.60	0.005	< 0.017
Carbon Tetrachloride	0.92	0.004	< 0.067
Chloroform	0.45	0.003	< 0.067
cis-1,2-Dichloroethene	156.00	0.041	***2.8***
Ethylbenzene	8.02	1.57	< 0.017
Naphthalene	5.52	0.658	0.56
Tetrachloroethene	33.00	0.005	< 0.067
Toluene	818.00	1.107	< 0.017
Total Xylenes	260.00	3.960	< 0.033
trans-1,2-Dichloroethene	1560.00	0.063	< 0.067
Trichloroethene	1.30	0.004	***0.021 J***
Vinyl chloride	0.07	0.000	< 0.033

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-03	B-07	B-10
Sample Date			3/22/2016	3/22/2016	3/22/2016
Depth Interval			2-4	2-4	2-4
PAHs (mg/kg)					
Benzo(a)anthracene	1.14	NS	0.33	0.56	1.4
Benzo(a)pyrene	0.12	0.47	**0.26**	***0.57***	***1.1***
Benzo(b)fluoranthene	1.15	0.48	***0.58***	***0.84***	***2.1***
Chrysene	115.00	0.14	***0.35***	***0.57***	***1.4***
Dibenzo(a,h)anthracene	0.12	NS	0.032 J	0.074	0.14
Fluoranthene	2390.00	88.88	0.81	1.3	4.7
Indeno(1,2,3-cd)pyrene	1.15	NS	0.13	0.3	0.45
Naphthalene	5.52	0.66	0.033 J	0.026 J	0.12
Pyrene	1790.00	54.55	0.64	1	3.8

COMMUNITY DEVELOPMENT AUTHORITY OF WEST ALLIS, WI
FORMER PRESSED STEEL PROPERTY
SIX POINTS REDEVELOPMENT

AREA 1 SOIL PLACEMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CONFIDENTIAL, ATTORNEY CLIENT PRIVILEGED

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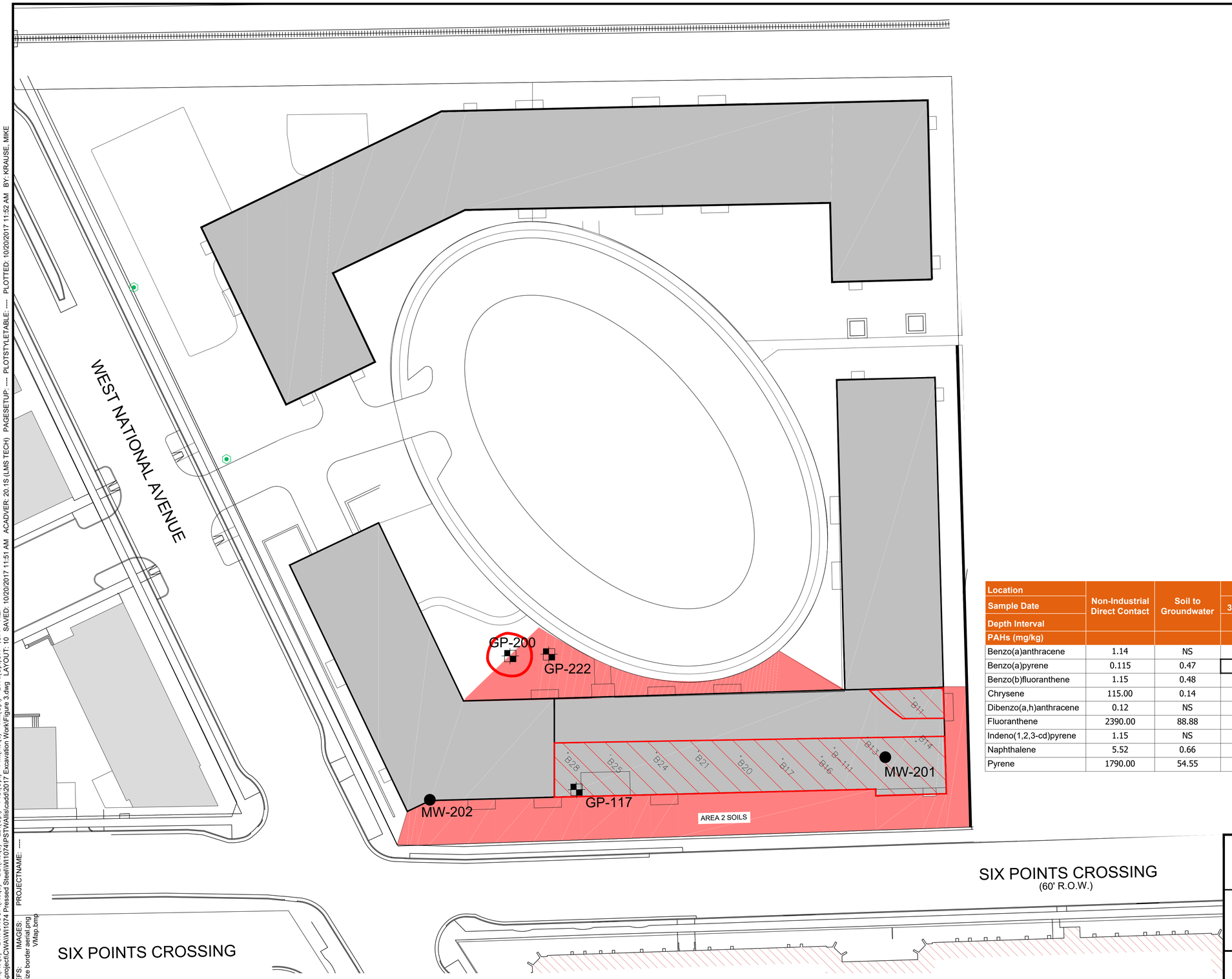

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NOTE

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SCALE IN FEET

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-11	B-16	B-20	B-28
Sample Date			3/14/2016	3/15/2016	3/15/2016	3/14/2016
Depth Interval			0-12	0-12	0-12	0-12
PAHs (mg/kg)						
Benzo(a)anthracene	1.14	NS	0.23	0.15	5.1	0.24
Benzo(a)pyrene	0.115	0.47	0.23	0.16	***5.6***	0.28
Benzo(b)fluoranthene	1.15	0.48	0.47	0.31	***8.6***	***0.51***
Chrysene	115.00	0.14	***0.27***	***0.18***	***5.9***	***0.3***
Dibenzo(a,h)anthracene	0.12	NS	< 0.038	< 0.038	0.76	< 0.039
Fluoranthene	2390.00	88.88	0.51	0.36	13	0.42
Indeno(1,2,3-cd)pyrene	1.15	NS	0.059	0.061	2.3	0.11
Naphthalene	5.52	0.66	0.016 J	0.014 J	0.013 J	< 0.039
Pyrene	1790.00	54.55	0.52	0.31	10	0.81

COMMUNITY DEVELOPMENT AUTHORITY OF WEST ALLIS, WI
FORMER PRESSED STEEL PROPERTY
SIX POINTS REDEVELOPMENT

AREA 2 SOIL PLACEMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CONFIDENTIAL, ATTORNEY CLIENT PRIVILEGED

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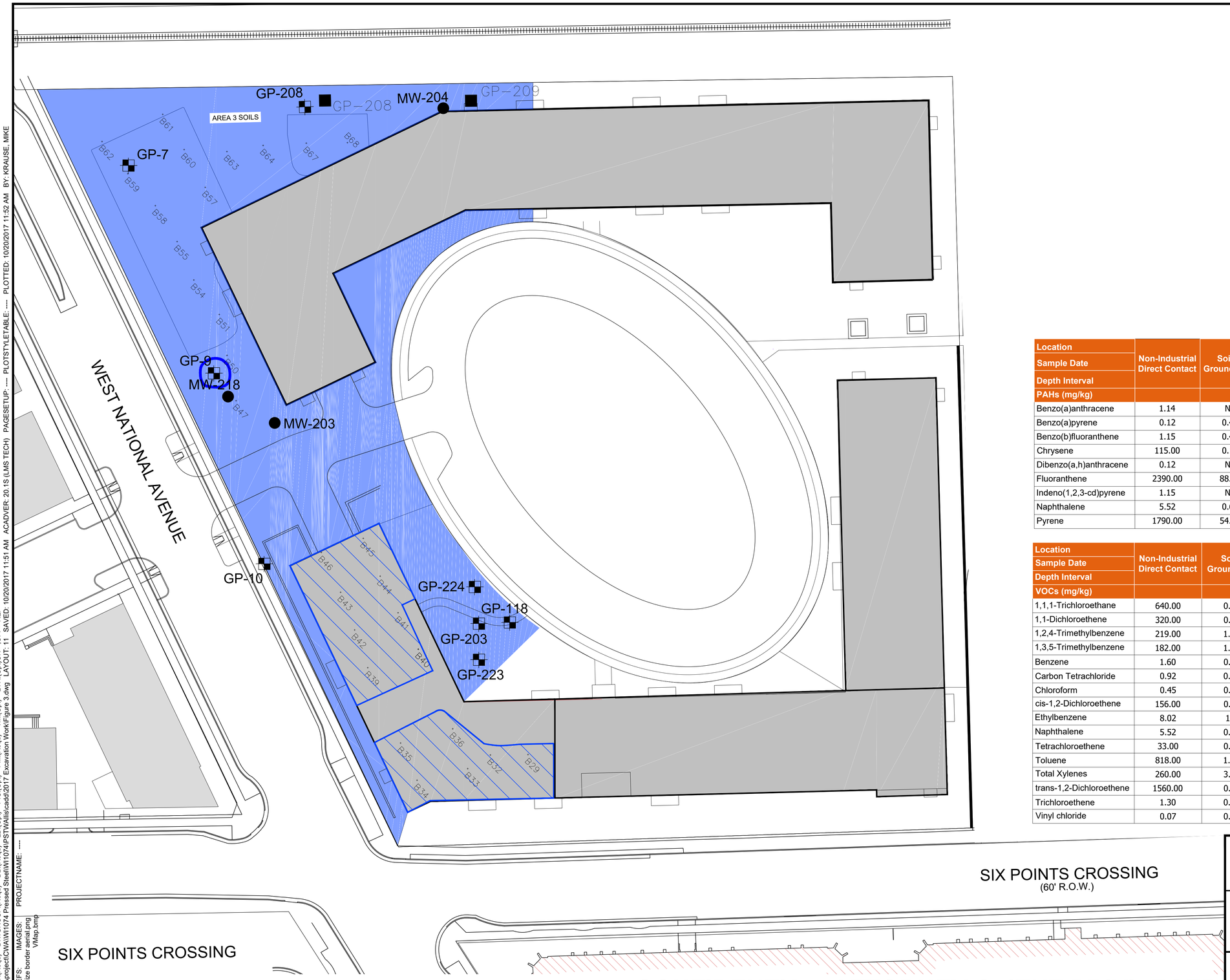

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NOTE

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0 30 60
SCALE IN FEET

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-35	B-39	B-42
Sample Date			3/15/2016	3/16/2016	3/16/2016
Depth Interval			4-6	2-4	2-4
PAHs (mg/kg)					
Benzo(a)anthracene	1.14	NS	< 0.038	1.8	< 0.039
Benzo(a)pyrene	0.12	0.47	< 0.038	***1.3***	0.15
Benzo(b)fluoranthene	1.15	0.48	< 0.038	***2.1***	< 0.039
Chrysene	115.00	0.14	< 0.038	***2***	0.077
Dibenzo(a,h)anthracene	0.12	NS	< 0.038	0.11	< 0.039
Fluoranthene	2390.00	88.88	< 0.038	6.2	0.019 J
Indeno(1,2,3-cd)pyrene	1.15	NS	< 0.038	0.35	0.19
Naphthalene	5.52	0.66	***12***	0.026 J	< 0.039
Pyrene	1790.00	54.55	< 0.038	5.6	0.2

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-29	B-35	B-43	B-44
Sample Date			3/15/2016	3/15/2016	3/16/2016	3/16/2016
Depth Interval			2-4	4-6	2-4	2-4
VOCs (mg/kg)						
1,1,1-Trichloroethane	640.00	0.140	< 0.064	< 0.67	< 0.066	< 0.071
1,1-Dichloroethene	320.00	0.005	< 0.064	< 0.67	< 0.066	< 0.071
1,2,4-Trimethylbenzene	219.00	1.382	< 0.064	***34***	< 0.066	< 0.071
1,3,5-Trimethylbenzene	182.00	1.382	< 0.064	***8.6***	< 0.066	< 0.071
Benzene	1.60	0.005	< 0.016	< 0.17	< 0.017	< 0.018
Carbon Tetrachloride	0.92	0.004	***0.19***	< 0.67	< 0.066	< 0.071
Chloroform	0.45	0.003	< 0.064	< 0.67	< 0.066	< 0.071
cis-1,2-Dichloroethene	156.00	0.041	< 0.064	< 0.67	< 0.066	< 0.071
Ethylbenzene	8.02	1.57	< 0.016	***120***	< 0.017	< 0.018
Naphthalene	5.52	0.658	< 0.064	***21***	< 0.066	< 0.071
Tetrachloroethene	33.00	0.005	< 0.064	< 0.67	< 0.066	< 0.071
Toluene	818.00	1.107	< 0.016	***3.2***	< 0.017	< 0.018
Total Xylenes	260.00	3.960	< 0.032	***410***	< 0.033	< 0.036
trans-1,2-Dichloroethene	1560.00	0.063	< 0.064	< 0.67	< 0.066	< 0.071
Trichloroethene	1.30	0.004	< 0.032	< 0.33	***0.044***	***0.07 ****
Vinyl chloride	0.07	0.000	< 0.032	< 0.33	< 0.033	< 0.036

COMMUNITY DEVELOPMENT AUTHORITY OF WEST ALLIS, WI
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AREA 3 SOIL PLACEMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

CONFIDENTIAL, ATTORNEY CLIENT PRIVILEGED

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* G:\Aproject\CWA\WI1074 Pressed Steel\WI1074IPSTWAllis\cadd\2017 Excavation Work\Figure 3.dwg LAYOUT: 11 SAVED: 10/20/2017 11:51 AM ACADVER: 20.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 10/20/2017 11:52 AM BY: KRAUSE, MIKE
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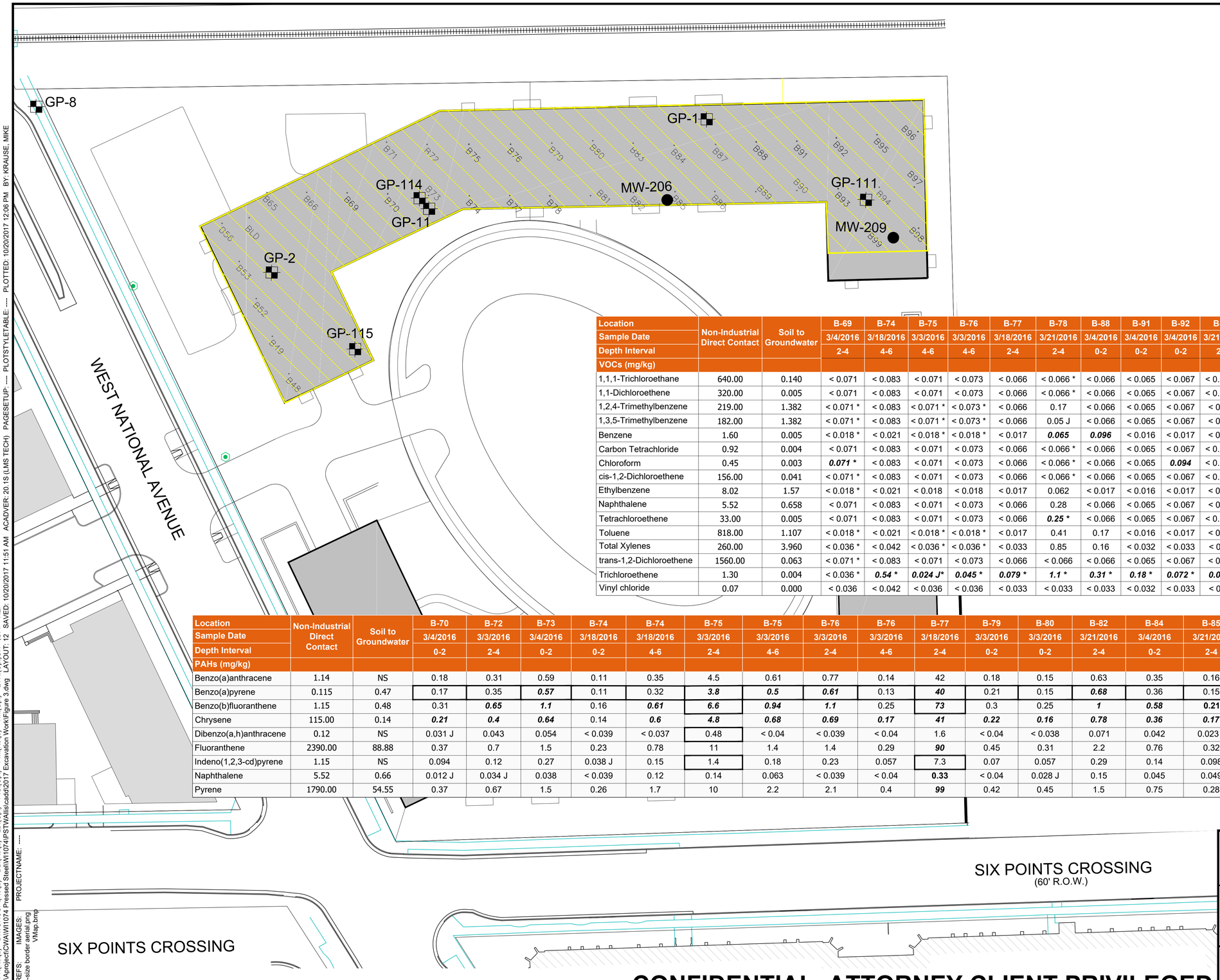

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NOTE

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0 30 60
SCALE IN FEET

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-69	B-74	B-75	B-76	B-77	B-78	B-88	B-91	B-92	B-93	B-95	B-95	B-96	B-96	B-97	B-98	B-99
Sample Date			3/4/2016	3/18/2016	3/3/2016	3/3/2016	3/18/2016	3/21/2016	3/4/2016	3/4/2016	3/4/2016	3/21/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/21/2016	3/21/2016	3/22/2016
Depth Interval			2-4	4-6	4-6	4-6	2-4	2-4	0-2	0-2	0-2	2-4	0-2	4-6	2-4	6-8	2-4	2-4	2-4
VOCs (mg/kg)																			
1,1,1-Trichloroethane	640.00	0.140	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068	< 0.065	< 0.063	< 0.068 *	< 0.066	< 0.062
1,1-Dichloroethene	320.00	0.005	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068	< 0.065	< 0.063	< 0.068 *	< 0.066	< 0.062
1,2,4-Trimethylbenzene	219.00	1.382	< 0.071 *	< 0.083	< 0.071 *	< 0.073 *	< 0.066	0.17	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062
1,3,5-Trimethylbenzene	182.00	1.382	< 0.071 *	< 0.083	< 0.071 *	< 0.073 *	< 0.066	0.05 J	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062
Benzene	1.60	0.005	< 0.018 *	< 0.021	< 0.018 *	< 0.018 *	< 0.017	***0.065***	***0.096***	< 0.016	< 0.017	< 0.015	< 0.018 *	< 0.017 *	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016
Carbon Tetrachloride	0.92	0.004	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068	< 0.065	< 0.063	< 0.068 *	< 0.066 *	< 0.062 *
Chloroform	0.45	0.003	***0.071 ****	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	***0.094***	< 0.062 *	***0.1 ****	***0.097 ****	***0.094 ****	***0.088 ****	< 0.068 *	< 0.066	< 0.062
cis-1,2-Dichloroethene	156.00	0.041	< 0.071 *	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071 *	< 0.068 *	< 0.065 *	< 0.063 *	< 0.068 *	< 0.066	< 0.062
Ethylbenzene	8.02	1.57	< 0.018 *	< 0.021	< 0.018	< 0.018	< 0.017	0.062	< 0.017	< 0.016	< 0.017	< 0.015	< 0.018 *	< 0.017 *	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016
Naphthalene	5.52	0.658	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	0.28	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071	< 0.068	< 0.065	< 0.063	< 0.068	< 0.066	< 0.062
Tetrachloroethene	33.00	0.005	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	***0.25 ****	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068	< 0.065	< 0.063	***0.15 ****	***0.044 J***	< 0.062
Toluene	818.00	1.107	< 0.018 *	< 0.021	< 0.018 *	< 0.018 *	< 0.017	0.41	0.17	< 0.016	< 0.017	< 0.015	0.02 *	< 0.017 *	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016
Total Xylenes	260.00	3.960	< 0.036 *	< 0.042	< 0.036 *	< 0.036 *	< 0.033	0.85	0.16	< 0.032	< 0.033	< 0.031	< 0.035 *	< 0.034 *	< 0.033 *	< 0.031 *	< 0.034	< 0.033	< 0.031
trans-1,2-Dichloroethene	1560.00	0.063	< 0.071 *	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062
Trichloroethene	1.30	0.004	< 0.036 *	***0.54 ****	***0.024 J**	***0.045 ****	***0.079 ****	***1.1 ****	***0.31 ****	***0.18 ****	***0.072 ****	***0.043 ****	< 0.035 *	< 0.034 *	< 0.033 *	< 0.031 *	< 0.034 *	***0.25***	***0.25***
Vinyl chloride	0.07	0.000	< 0.036	< 0.042	< 0.036	< 0.036	< 0.033	< 0.033	< 0.033	< 0.032	< 0.033	< 0.031	< 0.035	< 0.034	< 0.033	< 0.031	< 0.034	< 0.033	< 0.031

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-70	B-72	B-73	B-74	B-74	B-75	B-75	B-76	B-76	B-77	B-79	B-80	B-82	B-84	B-85	B-86	B-87	B-88	B-91	B-92	B-95
Sample Date			3/4/2016	3/3/2016	3/4/2016	3/18/2016	3/18/2016	3/3/2016	3/3/2016	3/3/2016	3/3/2016	3/18/2016	3/3/2016	3/3/2016	3/21/2016	3/4/2016	3/21/2016	3/21/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016
Depth Interval			0-2	2-4	0-2	0-2	4-6	2-4	4-6	2-4	4-6	2-4	0-2	0-2	2-4	0-2	2-4	0-2	0-2	0-2	0-2	0-2	0-2
PAHs (mg/kg)																							
Benzo(a)anthracene	1.14	NS	0.18	0.31	0.59	0.11	0.35	4.5	0.61	0.77	0.14	42	0.18	0.15	0.63	0.35	0.16	0.44	0.51	0.85	0.14	0.47	0.13
Benzo(a)pyrene	0.115	0.47	0.17	0.35	***0.57***	0.11	0.32	***3.8***	***0.5***	***0.61***	0.13	***40***	0.21	0.15	***0.68***	0.36	0.15	0.41	***0.51***	***0.69***	0.16	***0.48***	0.16
Benzo(b)fluoranthene	1.15	0.48	0.31	***0.65***	***1.1***	0.16	***0.61***	***6.6***	***0.94***	***1.1***	0.25	***73***	0.3	0.25	***1***	***0.58***	***0.21***	***0.66***	***0.95***	***1.3***	***0.28***	***0.77***	***0.32***
Chrysene	115.00	0.14	***0.21***	***0.4***	***0.64***	0.14	***0.6***	***4.8***	***0.68***	***0.69***	***0.17***	***41***	***0.22***	***0.16***	***0.78***	***0.36***	***0.17***	***0.44***	***0.52***	***0.89***	***0.15***	***0.55***	***0.18***
Dibenzo(a,h)anthracene	0.12	NS	0.031 J	0.043	0.054	< 0.039	< 0.037	0.48	< 0.04	< 0.039	< 0.04	1.6	< 0.04	< 0.038	0.071	0.042	0.023 J	0.043	0.064	0.082	< 0.038	< 0.038	< 0.04
Fluoranthene	2390.00	88.88	0.37	0.7	1.5	0.23	0.78	11	1.4	1.4	0.29	***90***	0.45	0.31	2.2	0.76	0.32	1	1.5	1.5	0.26	0.99	0.24
Indeno(1,2,3-cd)pyrene	1.15	NS	0.094	0.12	0.27	0.038 J	0.15	1.4	0.18	0.23	0.057	7.3	0.07	0.057	0.29	0.14	0.098	0.17	0.23	0.22	0.064	0.19	0.074
Naphthalene	5.52	0.66	0.012 J	0.034 J	0.038	< 0.039	0.12	0.14	0.063	< 0.039	< 0.04	***0.33***	< 0.04	0.028 J	0.15	0.045	0.049	0.026 J	0.053	0.02 J	< 0.038	0.01 J	0.022 J
Pyrene	1790.00	54.55	0.37	0.67	1.5	0.26	1.7	10	2.2	2.1	0.4	***99***	0.42	0.45	1.5	0.75	0.28	0.82	1.5	1.8	0.39	0.87	0.41

COMMUNITY DEVELOPMENT AUTHORITY OF WEST ALLIS, WI
FORMER PRESSED STEEL PROPERTY
SIX POINTS REDEVELOPMENT

AREA 4 SOIL PLACEMENT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
5

CONFIDENTIAL, ATTORNEY CLIENT PRIVILEGED

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\Aproject\CWA\WI1074 Pressed Steel\WI1074\PSTWAllis\cadd\2017 Excavation Work\Figure 3.dwg LAYOUT: 12 SAVED: 10/20/2017 11:51 AM ACADVER: 20.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 10/20/2017 12:06 PM BY: KRAUSE, MIKE
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Table 1
PCB Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

ARCADIS Design & Consultancy for natural and built assets

Location	Non-Industrial Direct	Soil to Groundwater	B-05	B-06	B-30	B-31	B-37	B-38	B-106	B-106	B-107	B-108	B-108	B-109	B-109	B-110	B-112
Sample Date			3/23/2016	3/22/2016	3/16/2016	3/15/2016	3/16/2016	3/16/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016
Depth Interval			2-4	2-4	2-4	2-4	2-4	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	2-4	2-4
PCBs (mg/kg)																	
Aroclor 1248	0.236	NS	< 0.4	< 0.37	< 0.19	1.6	< 0.2	0.47	0.96	3.6	2.5	2.9	< 1.9	4.5	1.6	6.7	2.7
Aroclor 1254	0.239	NS	1.4	< 0.37	0.46	< 0.38	0.94	0.18	0.97	1.7	1.7	1.5	21	2.6	1.1	3.2	1.6
Aroclor 1260	0.243	NS	< 0.4	3.3	< 0.19	< 0.38	< 0.2	< 0.038	< 0.18	< 0.37	< 0.19	< 0.37	< 1.9	< 0.38	< 0.18	< 0.97	< 0.38

Location	Non-Industrial Direct	Soil to Groundwater	DB-01	DB-02	DB-02	DB-03	DB-03	DB-04	DB-04	DB-05	DB-05	DB-05	DB-07	DB-08	DB-09
Sample Date			3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016
Depth Interval			0-2	0-2	2-4	0-2	2-4	0-2	4-6	0-2	2-4	4-6	0-2	0-2	0-2
PCBs (mg/kg)															
Aroclor 1248	0.236	NS	1.9	5.2	1.8	4.5	3.6	1.6	0.95	9.5	3.4	< 0.42	0.54	3.2	5.8
Aroclor 1254	0.239	NS	1.5	3.7	1.1	2.8	2.1	0.84 J	0.58	3.6	1.5	1.4	0.62	2.2	3
Aroclor 1260	0.243	NS	<0.98	< 0.38	< 0.19	< 0.95	< 0.91	< 0.94	< 0.4	< 1.9	< 0.98	1.4	< 0.19	< 1.9	< 1.9

Acronyms and Abbreviations:

Non-Industrial Soil to Groundwater RCL Exceedance
NS = no standard
< = not detected
mg/kg = milligrams per kilogram
PCB = polychlorinated biphenyls
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Table 2
VOC Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

ARCADIS Design & Consultancy for natural and built assets

Location	Non-Industrial Direct	Soil to Groundwater	B-10	B-29	B-35	B-43	B-44	B-69	B-74	B-75	B-76	B-77	B-78	B-88	B-91	B-92	B-93	B-95	B-95
Sample Date			3/22/2016	3/15/2016	3/15/2016	3/16/2016	3/16/2016	3/4/2016	3/18/2016	3/3/2016	3/3/2016	3/18/2016	3/21/2016	3/4/2016	3/4/2016	3/4/2016	3/21/2016	3/4/2016	3/4/2016
Depth Interval			4-6	2-4	4-6	2-4	2-4	2-4	4-6	4-6	4-6	2-4	2-4	0-2	0-2	0-2	2-4	0-2	4-6
VOCs (mg/kg)																			
1,1,1-Trichloroethane	640	0.140	< 0.067	< 0.064	< 0.67	< 0.066	< 0.071	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068
1,1-Dichloroethene	320	0.005	< 0.067	< 0.064	< 0.67	< 0.066	< 0.071	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068
1,2,4-Trimethylbenzene	219	1.382	< 0.067	< 0.064	***34***	< 0.066	< 0.071	< 0.071 *	< 0.083	< 0.071 *	< 0.073 *	< 0.066	0.17	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *
1,3,5-Trimethylbenzene	182	1.382	< 0.067	< 0.064	***8.6***	< 0.066	< 0.071	< 0.071 *	< 0.083	< 0.071 *	< 0.073 *	< 0.066	0.05 J	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *
Benzene	1.6	0.005	< 0.017	< 0.016	< 0.17	< 0.017	< 0.018	< 0.018 *	< 0.021	< 0.018 *	< 0.018 *	< 0.017	***0.065***	***0.096***	< 0.016	< 0.017	< 0.015	< 0.018 *	< 0.017 *
Carbon Tetrachloride	0.916	0.004	< 0.067	***0.19***	< 0.67	< 0.066	< 0.071	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068
Chloroform	0.454	0.003	< 0.067	< 0.064	< 0.67	< 0.066	< 0.071	***0.071 ****	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	***0.094***	< 0.062 *	***0.1 ****	***0.097 ****
cis-1,2-Dichloroethene	156	0.041	***2.8***	< 0.064	< 0.67	< 0.066	< 0.071	< 0.071 *	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066 *	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071 *	< 0.068 *
Ethylbenzene	8.02	1.57	< 0.017	< 0.016	***120***	< 0.017	< 0.018	< 0.018 *	< 0.021	< 0.018	< 0.018	< 0.017	0.062	< 0.017	< 0.016	< 0.017	< 0.015	< 0.018 *	< 0.017 *
Naphthalene	5.52	0.658	0.56	< 0.064	***21***	< 0.066	< 0.071	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	0.28	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071	< 0.068
Tetrachloroethene	33	0.005	< 0.067	< 0.064	< 0.67	< 0.066	< 0.071	< 0.071	< 0.083	< 0.071	< 0.073	< 0.066	***0.25 ****	< 0.066	< 0.065	< 0.067	< 0.062 *	< 0.071	< 0.068
Toluene	818	1.107	< 0.017	< 0.016	***3.2***	< 0.017	< 0.018	< 0.018 *	< 0.021	< 0.018 *	< 0.018 *	< 0.017	0.41	0.17	< 0.016	< 0.017	< 0.015	0.02 *	< 0.017 *
Total Xylenes	260	3.960	< 0.033	< 0.032	***410***	< 0.033	< 0.036	< 0.036 *	< 0.042	< 0.036 *	< 0.036 *	< 0.033	0.85	0.16	< 0.032	< 0.033	< 0.031	< 0.035 *	< 0.034 *
trans-1,2-Dichloroethene	1560	0.063	< 0.067	< 0.064	< 0.67	< 0.066	< 0.071	< 0.071 *	< 0.083	< 0.071	< 0.073	< 0.066	< 0.066	< 0.066	< 0.065	< 0.067	< 0.062	< 0.071 *	< 0.068 *
Trichloroethene	1.3	0.004	***0.021 J***	< 0.032	< 0.33	***0.044***	***0.07 ****	< 0.036 *	***0.54 ****	***0.024 J****	***0.045 ****	***0.079 ****	***1.1 ****	***0.31 ****	***0.18 ****	***0.072 ****	***0.043 ****	< 0.035 *	< 0.034 *
Vinyl chloride	0.067	0.000	< 0.033	< 0.032	< 0.33	< 0.033	< 0.036	< 0.036	< 0.042	< 0.036	< 0.036	< 0.033	< 0.033	< 0.033	< 0.032	< 0.033	< 0.031	< 0.035	< 0.034

Acronyms and Abbreviations:

Non-Industrial Direct Contact RCL Exceedance

Italics Soil to Groundwater Exceedance

< = less than

* = LCS or LCSD is outside acceptance limits

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/kg = milligrams per kilogram

VOCs = volatile organic compounds

Table 2
VOC Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

Location	Non-Industrial Direct	Soil to Groundwater	B-96	B-96	B-97	B-98	B-99	B-100	B-100	B-101	B-101
Sample Date			3/4/2016	3/4/2016	3/21/2016	3/21/2016	3/22/2016	3/22/2016	3/22/2016	3/21/2016	3/21/2016
Depth Interval			2-4	6-8	2-4	2-4	2-4	2-4	4-6	2-4	4-6
VOCs (mg/kg)											
1,1,1-Trichloroethane	640	0.140	< 0.065	< 0.063	< 0.068 *	< 0.066	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
1,1-Dichloroethene	320	0.005	< 0.065	< 0.063	< 0.068 *	< 0.066	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
1,2,4-Trimethylbenzene	219	1.382	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
1,3,5-Trimethylbenzene	182	1.382	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
Benzene	1.6	0.005	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016
Carbon Tetrachloride	0.916	0.004	< 0.065	< 0.063	< 0.068 *	< 0.066 *	< 0.062 *	< 0.063 *	< 0.064 *	< 0.067 *	< 0.064 *
Chloroform	0.454	0.003	***0.094 ****	***0.088 ****	< 0.068 *	< 0.066	< 0.062	< 0.063	< 0.064	***0.072***	***0.079***
cis-1,2-Dichloroethene	156	0.041	< 0.065 *	< 0.063 *	< 0.068 *	< 0.066	< 0.062	***0.042 J***	***0.31***	***2.3***	***2.5***
Ethylbenzene	8.02	1.57	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016
Naphthalene	5.52	0.658	< 0.065	< 0.063	< 0.068	< 0.066	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
Tetrachloroethene	33	0.005	< 0.065	< 0.063	***0.15 ****	***0.044 J***	< 0.062	< 0.063	< 0.064	< 0.067	< 0.064
Toluene	818	1.107	< 0.016 *	< 0.016 *	< 0.017	< 0.017	< 0.016	< 0.016	< 0.016	< 0.017	< 0.016
Total Xylenes	260	3.960	< 0.033 *	< 0.031 *	< 0.034	< 0.033	< 0.031	< 0.032	< 0.032	< 0.034	< 0.032
trans-1,2-Dichloroethene	1560	0.063	< 0.065 *	< 0.063 *	< 0.068	< 0.066	< 0.062	< 0.063	< 0.064	**0.054 J**	***0.065***
Trichloroethene	1.3	0.004	< 0.033 *	< 0.031 *	< 0.034 *	***0.25***	***0.25***	***4.6***	***2.2***	***30***	***30***
Vinyl chloride	0.067	0.000	< 0.033	< 0.031	< 0.034	< 0.033	< 0.031	< 0.032	< 0.032	< 0.034	< 0.032

Acronyms and Abbreviations:

Non-Industrial Direct Contact RCL Exceedance

Italics Soil to Groundwater Exceedance

< = less than

* = LCS or LCSD is outside acceptance limits

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/kg = milligrams per kilogram

VOCs = volatile organic compounds

Table 3
PAH Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-03	B-05	B-05	B-06	B-06	B-07	B-10	B-11	B-15	B-16	B-18	B-19	B-20	B-23	B-26	B-27	B-28
Sample Date			3/22/2016	3/23/2016	3/23/2016	3/22/2016	3/22/2016	3/22/2016	3/22/2016	3/14/2016	3/14/2016	3/15/2016	3/14/2016	3/14/2016	3/15/2016	3/14/2016	3/14/2016	3/14/2016	3/14/2016
Depth Interval			2-4	2-4	4-6	2-4	4-6	2-4	2-4	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12	0-12
PAHs (mg/kg)																			
Benzo(a)anthracene	1.14	NS	0.33	0.5	0.38	0.98	0.32	0.56	1.4	0.23	0.3	0.15	0.56	0.32	5.1	0.23	3.1	0.64	0.24
Benzo(a)pyrene	0.115	0.47	**0.26**	***0.48***	**0.26**	***0.83***	**0.25**	***0.57***	***1.1***	0.23	0.31	0.16	***0.62***	**0.36**	***5.6***	0.24	***2.7***	***0.57***	0.28
Benzo(b)fluoranthene	1.15	0.48	***0.58***	***1.1***	***0.56***	***1.7***	0.37	***0.84***	***2.1***	0.47	***0.57***	0.31	***1.2***	***0.66***	***8.6***	***0.56***	***4.2***	***1.1***	***0.51***
Chrysene	115	0.14	***0.35***	***0.61***	***0.67***	***0.98***	***0.3***	***0.57***	***1.4***	***0.27***	***0.31***	***0.18***	***0.59***	***0.36***	***5.9***	***0.28***	***3.2***	***0.72***	***0.3***
Dibenzo(a,h)anthracene	0.115	NS	0.032 J	0.053	< 0.042	0.093	0.029 J	0.074	0.14	< 0.038	**0.035 J**	< 0.038	0.068	0.05	0.76	0.016 J	0.29	< 0.037	< 0.039
Fluoranthene	2390	88.88	0.81	1	0.91	3	0.89	1.3	4.7	0.51	0.87	0.36	1.2	0.77	13	0.55	7.6	1.4	0.42
Indeno(1,2,3-cd)pyrene	1.15	NS	0.13	0.2	0.099	0.39	0.11	0.3	0.45	0.059	0.12	0.061	0.24	0.16	2.3	0.079	0.77	0.22	0.11
Naphthalene	5.52	0.66	0.033 J	0.051	0.13	0.38	0.057	0.026 J	0.12	0.016 J	0.021 J	0.014 J	0.029 J	0.025 J	0.013 J	0.017 J	***1.1***	0.069	< 0.039
Pyrene	1790	54.55	0.64	1	0.68	2	0.66	1	3.8	0.52	1.1	0.31	1.8	1.2	10	0.64	9.6	2.3	0.81

Acronyms and Abbreviations:

Non-Industrial Soil to Groundwater RCL Exceedance

Italics Soil to Groundwater Exceedance

< = less than

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/kg = milligrams per kilogram

PAHs = Polycyclic Aromatic Hydrocarbons

Table 3
PAH Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-30	B-31	B-35	B-37	B-39	B-42	B-70	B-72	B-73	B-74	B-74	B-75	B-75	B-76	B-76	B-77	B-79	B-80
Sample Date			3/16/2016	3/15/2016	3/15/2016	3/16/2016	3/16/2016	3/16/2016	3/4/2016	3/3/2016	3/4/2016	3/18/2016	3/18/2016	3/3/2016	3/3/2016	3/3/2016	3/3/2016	3/18/2016	3/3/2016	3/3/2016
Depth Interval			2-4	2-4	4-6	2-4	2-4	2-4	0-2	2-4	0-2	0-2	4-6	2-4	4-6	2-4	4-6	2-4	0-2	0-2
PAHs (mg/kg)																				
Benzo(a)anthracene	1.14	NS	0.41	0.28	< 0.038	0.17	1.8	< 0.039	0.18	0.31	0.59	0.11	0.35	4.5	0.61	0.77	0.14	42	0.18	0.15
Benzo(a)pyrene	0.115	0.47	0.38	0.28	< 0.038	0.16	***1.3***	0.15	0.17	0.35	***0.57***	0.11	0.32	***3.8***	***0.5***	***0.61***	0.13	***40***	0.21	0.15
Benzo(b)fluoranthene	1.15	0.48	***0.82 F1***	***0.56***	< 0.038	0.32	***2.1***	< 0.039	0.31	***0.65***	***1.1***	0.16	***0.61***	***6.6***	***0.94***	***1.1***	0.25	***73***	0.3	0.25
Chrysene	115	0.14	***0.47***	***0.32***	< 0.038	***0.2***	***2***	0.077	***0.21***	***0.4***	***0.64***	0.14	***0.6***	***4.8***	***0.68***	***0.69***	***0.17***	***41***	***0.22***	***0.16***
Dibenzo(a,h)anthracene	0.115	NS	0.038 F1	0.018 J	< 0.038	0.017 J	0.11	< 0.039	0.031 J	0.043	0.054	< 0.039	< 0.037	0.48	< 0.04	< 0.039	< 0.04	1.6	< 0.04	< 0.038
Fluoranthene	2390	88.88	0.91	0.7	< 0.038	0.37	6.2	0.019 J	0.37	0.7	1.5	0.23	0.78	11	1.4	1.4	0.29	***90***	0.45	0.31
Indeno(1,2,3-cd)pyrene	1.15	NS	0.13 F1	0.11	< 0.038	0.059	0.35	0.19	0.094	0.12	0.27	0.038 J	0.15	1.4	0.18	0.23	0.057	7.3	0.07	0.057
Naphthalene	5.52	0.66	0.027 J	0.042	***12***	0.016 J	0.026 J	< 0.039	0.012 J	0.034 J	0.038	< 0.039	0.12	0.14	0.063	< 0.039	< 0.04	**0.33**	< 0.04	0.028 J
Pyrene	1790	54.55	1.1 F1	0.56	< 0.038	0.38	5.6	0.2	0.37	0.67	1.5	0.26	1.7	10	2.2	2.1	0.4	***99***	0.42	0.45

Acronyms and Abbreviations:

Non-Industrial Soil to Groundwater RCL Exceedance

Italics Soil to Groundwater Exceedance

< = less than

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

mg/kg = milligrams per kilogram

PAHs = Polycyclic Aromatic Hydrocarbons

Table 3
PAH Exceedances
Community Development Authority of the City of West Allis
Former Pressed Steel Tank
West Allis, Wisconsin

Location	Non-Industrial Direct Contact	Soil to Groundwater	B-82	B-84	B-85	B-86	B-87	B-88	B-91	B-92	B-95
Sample Date			3/21/2016	3/4/2016	3/21/2016	3/21/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016
Depth Interval			2-4	0-2	2-4	0-2	0-2	0-2	0-2	0-2	0-2
PAHs (mg/kg)											
Benzo(a)anthracene	1.14	NS	0.63	0.35	0.16	0.44	0.51	0.85	0.14	0.47	0.13
Benzo(a)pyrene	0.115	0.47	***0.68***	0.36	0.15	0.41	***0.51***	***0.69***	0.16	***0.48***	0.16
Benzo(b)fluoranthene	1.15	0.48	***1***	***0.58***	**0.21**	***0.66***	***0.95***	***1.3***	**0.28**	***0.77***	**0.32**
Chrysene	115	0.14	***0.78***	***0.36***	***0.17***	***0.44***	***0.52***	***0.89***	***0.15***	***0.55***	***0.18***
Dibenzo(a,h)anthracene	0.115	NS	0.071	0.042	0.023 J	0.043	0.064	0.082	< 0.038	< 0.038	< 0.04
Fluoranthene	2390	88.88	2.2	0.76	0.32	1	1.5	1.5	0.26	0.99	0.24
Indeno(1,2,3-cd)pyrene	1.15	NS	0.29	0.14	0.098	0.17	0.23	0.22	0.064	0.19	0.074
Naphthalene	5.52	0.66	0.15	0.045	0.049	0.026 J	0.053	0.02 J	< 0.038	0.01 J	0.022 J
Pyrene	1790	54.55	1.5	0.75	0.28	0.82	1.5	1.8	0.39	0.87	0.41

Acronyms and Abbreviations:

	Non-Industrial Soil to Groundwater RCL Exceedance
Italics	Soil to Groundwater Exceedance
< = less than	

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
mg/kg = milligrams per kilogram
PAHs = Polycyclic Aromatic Hydrocarbons